

Chemical Analysis Report

TLH-ROC-2018-01-09-03

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

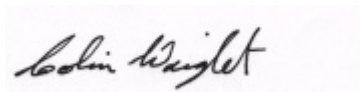
Event Description: **A-b/t/m**
Request ID: **RQ-2018-01-08-21**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
Attn: Michael Eckles

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Certified by: Colin Wright, Program Administrator

Date Certified: 29-JAN-2018 11:48

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: 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: Polk Creek @ End of Merry Robin Rd.

Collection Date/Time: 01/09/2018 10:10

Field ID: G1TLHR0055

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1958067	EPA 180.1 Rev. 2.0	Turbidity	2.2	A	NTU	P338070	
	EPA 300.0 Rev. 2.1	Chloride	3.8		mg Cl/L	P338150	
	SM 2120 B	Color (true)	120		PCU	P338054	
	SM 2320 B-97	Total Alkalinity	0.96	I	mg CaCO3/L	P338229	
	SM 2540 C-97	TDS	25		mg/L	P338387	
	SM 2540 D-97	TSS	3	I	mg/L	P338546	
	SM 4500 F-C-97	Fluoride	0.037	I	mg F/L	P338237	
1958072	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P338304	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.34		mg N/L	P338078	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P338175	
	EPA 365.1 Rev. 2.0	Total-P	0.022		mg P/L	P338086	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P338219	
1958077	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.016		mg P/L	P338051	
1958097	EPA 8321B	Sucralose**	0.031	I	ug/L	P338238	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P337928	
		Diuron	0.0020	U	ug/L	P337928	
		Fenuron	0.0080	U	ug/L	P337928	
		Imidacloprid	0.0020	U	ug/L	P337928	MS
		Bentazon	8.0E-04	U	ug/L	P337928	
		Linuron	0.0040	U	ug/L	P337928	
		Acetaminophen**	0.0080	U	ug/L	P337928	
		MCP	0.0020	U	ug/L	P337928	
		Carbamazepine**	4.0E-04	U	ug/L	P337928	
		Triclopyr**	0.0040	U	ug/L	P337928	
		Primidone**	0.0040	U	ug/L	P337928	
		Fluridone**	4.0E-04	U	ug/L	P337928	

Ref. Method and Comment:

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

EPA 350.1 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Harvey Creek @ Joe Thomas Rd West

Collection Date/Time: 01/09/2018 12:00

Field ID: G1TLHR0082

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1958068	EPA 180.1 Rev. 2.0	Turbidity	4.8		NTU	P338070	
	EPA 300.0 Rev. 2.1	Chloride	2.8		mg Cl/L	P338150	
	SM 2120 B	Color (true)	14		PCU	P338054	
	SM 2320 B-97	Total Alkalinity	3.3		mg CaCO3/L	P338229	
	SM 2540 C-97	TDS	15	I	mg/L	P338387	
	SM 2540 D-97	TSS	10		mg/L	P338546	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P338237	
1958073	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P338304	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.15	I	mg N/L	P338078	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P338111	

Field ID: G1TLHR0082

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1958073	EPA 365.1 Rev. 2.0	Total-P	0.006		mg P/L	P338086	
	SM 5310 B-00	Organic Carbon	2.4		mg C/L	P338219	
1958078	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P338051	
1958098	EPA 8321B	Sucralose**	0.010	U	ug/L	P338238	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P337928	
		Diuron	0.0020	U	ug/L	P337928	
		Fenuron	0.0080	U	ug/L	P337928	
		Imidacloprid	0.0020	U	ug/L	P337928	MS
		Bentazon	8.0E-04	U	ug/L	P337928	
		Linuron	0.0040	U	ug/L	P337928	
		Acetaminophen**	0.0080	U	ug/L	P337928	
		MCP	0.0020	U	ug/L	P337928	
		Carbamazepine**	4.0E-04	U	ug/L	P337928	
		Triclopyr**	0.0040	U	ug/L	P337928	
		Primidone**	0.0040	U	ug/L	P337928	
		Fluridone**	4.0E-04	U	ug/L	P337928	

Ref. Method and Comment:

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

EPA 350.1 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Bear Creek @ SR 267

Collection Date/Time: 01/09/2018 12:55

Field ID: G1TLHR0052

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1958069	EPA 180.1 Rev. 2.0	Turbidity	3.2		NTU	P338070	
	EPA 300.0 Rev. 2.1	Chloride	3.2		mg Cl/L	P338150	
	SM 2120 B	Color (true)	41		PCU	P338054	
	SM 2320 B-97	Total Alkalinity	5.0		mg CaCO3/L	P338229	
	SM 2540 C-97	TDS	27		mg/L	P338387	
	SM 2540 D-97	TSS	3	I	mg/L	P338546	
	SM 4500 F-C-97	Fluoride	0.059	I	mg F/L	P338237	
1958074	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P338304	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.27		mg N/L	P338079	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.080		mg N/L	P338111	
	EPA 365.1 Rev. 2.0	Total-P	0.062		mg P/L	P338086	
	SM 5310 B-00	Organic Carbon	3.6		mg C/L	P338219	
1958079	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.042		mg P/L	P338051	
1958099	EPA 8321B	Sucralose**	0.033	I	ug/L	P338238	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P337928	
		Diuron	0.0020	U	ug/L	P337928	
		Fenuron	0.0080	U	ug/L	P337928	
		Imidacloprid	0.0020	U	ug/L	P337928	MS
		Bentazon	8.0E-04	U	ug/L	P337928	
		Linuron	0.0040	U	ug/L	P337928	
		Acetaminophen**	0.0080	U	ug/L	P337928	

Field ID: G1TLHR0052

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1958099	USGS O-2060-01	MCP	0.0020	U	ug/L	P337928	
		Carbamazepine**	4.0E-04	U	ug/L	P337928	
		Triclopyr**	0.0040	U	ug/L	P337928	
		Primidone**	0.0040	U	ug/L	P337928	
		Fluridone**	0.0010	I	ug/L	P337928	

Ref. Method and Comment:

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

EPA 350.1 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Ocklawaha Creek @ SR 267

Collection Date/Time: 01/09/2018 13:20

Field ID: G1TLHR0053

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1958070	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P338070	
	EPA 300.0 Rev. 2.1	Chloride	2.2		mg Cl/L	P338150	
	SM 2120 B	Color (true)	64		PCU	P338054	
	SM 2320 B-97	Total Alkalinity	1.9	I	mg CaCO3/L	P338229	
	SM 2540 C-97	TDS	15	U	mg/L	P338387	
	SM 2540 D-97	TSS	2	I	mg/L	P338546	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P338237	
1958075	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P338304	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.19	I	mg N/L	P338079	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P338175	
	EPA 365.1 Rev. 2.0	Total-P	0.006		mg P/L	P338086	
	SM 5310 B-00	Organic Carbon	4.5		mg C/L	P338219	
1958080	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P338051	
1958100	EPA 8321B	Sucralose**	0.010	U	ug/L	P338238	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P337928	
		Diuron	0.0020	U	ug/L	P337928	
		Fenuron	0.0080	U	ug/L	P337928	
		Imidacloprid	0.0020	U	ug/L	P337928	MS
		Bentazon	8.0E-04	U	ug/L	P337928	
		Linuron	0.0040	U	ug/L	P337928	
		Acetaminophen**	0.0080	U	ug/L	P337928	
		MCP	0.0020	U	ug/L	P337928	
		Carbamazepine**	4.0E-04	U	ug/L	P337928	
		Triclopyr**	0.0040	U	ug/L	P337928	
		Primidone**	0.0040	U	ug/L	P337928	
		Fluridone**	4.0E-04	U	ug/L	P337928	

Ref. Method and Comment:

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

EPA 350.1 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Big Creek @ CR 2224

Collection Date/Time: 01/09/2018 14:00

Field ID: G1TLHR0057

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1958071	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P338070	
	EPA 300.0 Rev. 2.1	Chloride	2.4		mg Cl/L	P338150	
	SM 2120 B	Color (true)	120		PCU	P338054	
	SM 2320 B-97	Total Alkalinity	2.6		mg CaCO3/L	P338229	
	SM 2540 C-97	TDS	15	U	mg/L	P338387	
	SM 2540 D-97	TSS	3	I	mg/L	P338546	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P338237	
1958076	EPA 350.1 Rev. 2.0	Ammonia-N	0.019		mg N/L	P338360	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.32		mg N/L	P338079	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.36		mg N/L	P338175	
	EPA 365.1 Rev. 2.0	Total-P	0.009		mg P/L	P338086	
	SM 5310 B-00	Organic Carbon	8.1		mg C/L	P338219	
1958081	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.008	I	mg P/L	P338051	
1958101	EPA 8321B	Sucralose**	0.010	U	ug/L	P338238	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P337928	
		Diuron	0.0020	U	ug/L	P337928	
		Fenuron	0.0080	U	ug/L	P337928	
		Imidacloprid	0.0020	U	ug/L	P337928	MS
		Bentazon	8.0E-04	U	ug/L	P337928	
		Linuron	0.0040	U	ug/L	P337928	
		Acetaminophen**	0.0080	U	ug/L	P337928	
		MCP	0.0020	U	ug/L	P337928	
		Carbamazepine**	4.0E-04	U	ug/L	P337928	
		Triclopyr**	0.0040	U	ug/L	P337928	
		Primidone**	0.0040	U	ug/L	P337928	
		Fluridone**	0.0013	I	ug/L	P337928	

Ref. Method and Comment:

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

SM 5310 B-00: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P338070

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P338150

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P338304

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P338304

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P338360

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338078

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338079

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338111

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338175

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338086

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P338051

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

Reference Method: EPA 8321B
Batch ID: P338238

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2120 B
Batch ID: P338054

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P338229

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

Reference Method: SM 2540 C-97
Batch ID: P338387

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P338546

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P338237

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P338219

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

Reference Method: USGS O-2060-01
Batch ID: P337928

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
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
MCP	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338150

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P338304

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: P338360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338078

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338079

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338111

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338175

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338086

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P338051

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.7		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
 Batch ID: P338238

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	86.4		P	40 - 150

Reference Method: SM 2320 B-97
 Batch ID: P338229

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	95 - 108

Reference Method: SM 4500 F-C-97
 Batch ID: P338237

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

Reference Method: SM 5310 B-00
 Batch ID: P338219

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.8		P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P337928

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	103		P	40 - 150
Acetaminophen	85.8		P	30 - 150
Bentazon	96.7		P	30 - 150
Carbamazepine	102		P	40 - 150
Diuron	82.9		P	40 - 150
Fenuron	112		P	40 - 150
Fluridone	115		P	40 - 150
Imidacloprid	102		P	40 - 160
Linuron	93.5		P	40 - 150
MCPP	95.9		P	40 - 150
Primidone	95.0		P	40 - 150
Triclopyr	95.2		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P338150

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1958068	Chloride	92.8		P	90 - 110
1958192	Chloride	97.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P338360

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P338360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1957767	Ammonia-N	93.4	94.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338078

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1958025	Kjeldahl Nitrogen	103	98.6	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338079

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1958136	Kjeldahl Nitrogen	97.4	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338111

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1958054	NO2NO3-N	96.8	96.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338175

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1958475	NO2NO3-N	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338086

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1958136	Total-P	99.4	98.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P338051

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1958055	O-Phosphate-P	95.5	96.5	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P338238

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1958065	Sucralose	96.1	93.6	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P338237

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1958023	Fluoride	98.5	98.5	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: USGS O-2060-01
 Batch ID: P337928

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1957757	2,4-D	96.1	98.9	P/P	40 - 150
1957757	Acetaminophen	125	141	P/P	30 - 150
1957757	Bentazon	92.7	99.2	P/P	30 - 150
1957757	Carbamazepine	97.9	115	P/P	40 - 150
1957757	Diuron	84.2	98.0	P/P	40 - 150
1957757	Fenuron	73.5	85.2	P/P	40 - 150
1957757	Fluridone	80.9	95.1	P/P	40 - 150
1957757	Imidacloprid	164	194	F/F	40 - 160
1957757	Linuron	89.8	100	P/P	40 - 150
1957757	MCP	78.5	85.6	P/P	40 - 150
1957757	Primidone	79.2	90.5	P/P	40 - 150
1957757	Triclopyr	76.9	79.8	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P338070

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958067	Turbidity	0.451	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P338150

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958192	Chloride	4.36	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P338304

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958024	Ammonia-N	2.21	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P338360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1957767	Ammonia-N	0.819	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P338078

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958025	Kjeldahl Nitrogen	2.42	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P338079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958136	Kjeldahl Nitrogen	0.751	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P338111

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958054	NO2NO3-N	0.499	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P338175

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958475	NO2NO3-N	0.897	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P338086

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958136	Total-P	0.985	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P338051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958055	O-Phosphate-P	0.543	Spike	P	0 - 20

Reference Method: EPA 8321B
 Batch ID: P338238

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958065	Sucralose	2.51	Spike	P	0 - 30

Reference Method: SM 2120 B
 Batch ID: P338054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958059	Color (true)	1.13	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P338229

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958023	Total Alkalinity	0.150	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
 Batch ID: P338387

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958059	TDS	4.78	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P338237

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958023	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
 Batch ID: P338219

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1958054	Organic Carbon	0.311	Spike	P	0 - 20

Reference Method: USGS O-2060-01
 Batch ID: P337928

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1957757	2,4-D	2.87	Spike	P	0 - 30
1957757	Acetaminophen	12.4	Spike	P	0 - 30
1957757	Bentazon	6.73	Spike	P	0 - 30
1957757	Carbamazepine	15.8	Spike	P	0 - 30
1957757	Diuron	15.1	Spike	P	0 - 30
1957757	Fenuron	14.7	Spike	P	0 - 30
1957757	Fluridone	16.1	Spike	P	0 - 30
1957757	Imidacloprid	16.6	Spike	P	0 - 30
1957757	Linuron	11.1	Spike	P	0 - 30
1957757	MCP	8.71	Spike	P	0 - 30
1957757	Primidone	13.3	Spike	P	0 - 30
1957757	Triclopyr	3.69	Spike	P	0 - 30

* 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: 1958097
 Field Sample ID: G1TLHR0055

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	120	P	30 - 160
EPA 8321B	Carbamazepine-d10	122	P	30 - 160
EPA 8321B	Diuron-d6	100	P	30 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Sucralose-d6	103	P	40 - 160
USGS O-2060-01	2,4-D-d3	111	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1958097
Field Sample ID: G1TLHR0055

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
USGS O-2060-01	Acetaminophen-d4	120	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	122	P	30 - 160
USGS O-2060-01	Diuron-d6	100	P	30 - 160
USGS O-2060-01	Primidone-d5	104	P	30 - 160
USGS O-2060-01	Sucralose-d6	103	P	40 - 160

Lab Sample ID: 1958098
Field Sample ID: G1TLHR0082

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	99.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	109	P	30 - 160
EPA 8321B	Diuron-d6	92.0	P	30 - 160
EPA 8321B	Primidone-d5	111	P	30 - 160
EPA 8321B	Sucralose-d6	111	P	40 - 160
USGS O-2060-01	2,4-D-d3	97.7	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	99.1	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	109	P	30 - 160
USGS O-2060-01	Diuron-d6	92.0	P	30 - 160
USGS O-2060-01	Primidone-d5	111	P	30 - 160
USGS O-2060-01	Sucralose-d6	111	P	40 - 160

Lab Sample ID: 1958099
Field Sample ID: G1TLHR0052

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	114	P	30 - 160
EPA 8321B	Carbamazepine-d10	124	P	30 - 160
EPA 8321B	Diuron-d6	109	P	30 - 160
EPA 8321B	Primidone-d5	123	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	40 - 160
USGS O-2060-01	2,4-D-d3	94.0	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	114	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	124	P	30 - 160
USGS O-2060-01	Diuron-d6	109	P	30 - 160
USGS O-2060-01	Primidone-d5	123	P	30 - 160
USGS O-2060-01	Sucralose-d6	100	P	40 - 160

Lab Sample ID: 1958100
Field Sample ID: G1TLHR0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	121	P	30 - 160
EPA 8321B	Carbamazepine-d10	135	P	30 - 160
EPA 8321B	Diuron-d6	114	P	30 - 160
EPA 8321B	Primidone-d5	129	P	30 - 160
EPA 8321B	Sucralose-d6	110	P	40 - 160
USGS O-2060-01	2,4-D-d3	107	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	121	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	135	P	30 - 160
USGS O-2060-01	Diuron-d6	114	P	30 - 160
USGS O-2060-01	Primidone-d5	129	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1958100
Field Sample ID: G1TLHR0053

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
USGS O-2060-01	Sucralose-d6	110	P	40 - 160

Lab Sample ID: 1958101
Field Sample ID: G1TLHR0057

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	109	P	30 - 160
EPA 8321B	Carbamazepine-d10	118	P	30 - 160
EPA 8321B	Diuron-d6	97.2	P	30 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Sucralose-d6	103	P	40 - 160
USGS O-2060-01	2,4-D-d3	114	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	109	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	118	P	30 - 160
USGS O-2060-01	Diuron-d6	97.2	P	30 - 160
USGS O-2060-01	Primidone-d5	105	P	30 - 160
USGS O-2060-01	Sucralose-d6	103	P	40 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A81395
Included Lab Sample IDs: 1958077, 1958078, 1958079, 1958080, 1958081

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	98.9	P/P	90 - 110
O-Phosphate-P	98.6	100	P/P	90 - 110
O-Phosphate-P	99.2	100	P/P	90 - 110

Reference Method: SM 2120 B
Run ID: A81396
Included Lab Sample IDs: 1958067, 1958068, 1958069, 1958070, 1958071

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A81397
Included Lab Sample IDs: 1958067, 1958068, 1958069, 1958070, 1958071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	93.7	99.7	P/P	90 - 110
Chloride	99.7	103	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A81400
Included Lab Sample IDs: 1958067, 1958068, 1958069, 1958070, 1958071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.5	P/P	95 - 105

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A81411

Included Lab Sample IDs: 1958073, 1958074

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A81432

Included Lab Sample IDs: 1958074

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: A81434

Included Lab Sample IDs: 1958072, 1958073, 1958074, 1958075, 1958076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	108	P/P	90 - 110
Kjeldahl Nitrogen	108	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A81437

Included Lab Sample IDs: 1958072, 1958073, 1958075, 1958076

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A81440

Included Lab Sample IDs: 1958072, 1958075, 1958076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.0	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A81452

Included Lab Sample IDs: 1958067, 1958068, 1958069, 1958070, 1958071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.5	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A81452

Included Lab Sample IDs: 1958067, 1958068, 1958069, 1958070, 1958071

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

Reference Method: SM 5310 B-00

Run ID: A81454

Included Lab Sample IDs: 1958072, 1958073, 1958074, 1958075, 1958076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00

Run ID: A81454

Included Lab Sample IDs: 1958072, 1958073, 1958074, 1958075, 1958076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.4	98.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A81474

Included Lab Sample IDs: 1958072, 1958073, 1958074, 1958075

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

Reference Method: EPA 8321B

Run ID: A81482

Included Lab Sample IDs: 1958097, 1958098, 1958099, 1958100, 1958101

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	93.1	88.4	P/P	60 - 150

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A81494

Included Lab Sample IDs: 1958076

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.3	95.9	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A81530

Included Lab Sample IDs: 1958097, 1958098, 1958099, 1958100, 1958101

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	101	101	P/P	60 - 150
Acetaminophen	103	101	P/P	60 - 150
Carbamazepine	101	111	P/P	60 - 150
Carbamazepine	111	111	P/P	60 - 150
Diuron	103	107	P/P	60 - 150
Diuron	97.6	103	P/P	60 - 150
Fenuron	101	105	P/P	60 - 150
Fenuron	105	103	P/P	60 - 150
Imidacloprid	95.2	99.7	P/P	60 - 150
Imidacloprid	99.7	98.7	P/P	60 - 150
Linuron	101	108	P/P	60 - 150
Linuron	108	110	P/P	60 - 150
Primidone	107	85.9	P/P	60 - 150
Primidone	85.9	101	P/P	60 - 150

Reference Method: USGS O-2060-01

Run ID: A81531

Included Lab Sample IDs: 1958097, 1958098, 1958099, 1958100, 1958101

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.9	99.2	P/P	50 - 150
2,4-D	99.2	97.0	P/P	50 - 150
Bentazon	95.5	92.6	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A81531

Included Lab Sample IDs: 1958097, 1958098, 1958099, 1958100, 1958101

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	96.3	95.5	P/P	50 - 150
Fluridone	106	107	P/P	60 - 160
Fluridone	92.8	106	P/P	60 - 160
MCP	86.6	88.0	P/P	50 - 150
MCP	91.2	86.6	P/P	50 - 150
Triclopyr	100	95.4	P/P	50 - 150
Triclopyr	95.9	100	P/P	50 - 150

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity				0.451	
EPA 300.0 Rev. 2.1	Chloride	99.1	97.0 92.8		4.36	
EPA 350.1 Rev. 2.0	Ammonia-N	101				2.21
	Ammonia-N	94.8	93.4 94.5			0.819
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	103 98.6			2.42
	Kjeldahl Nitrogen	102	97.4 98.5			0.751
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	96.8 96.3			0.499
	NO ₂ NO ₃ -N	100	101 102			0.897
EPA 365.1 Rev. 2.0	Total-P	103	99.4 98.4			0.985
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.7	95.5 96.5			0.543
EPA 8321B	Sucralose	86.4	96.1 93.6			2.51
SM 2120 B	Color (true)				1.13	
SM 2320 B-97	Total Alkalinity	102			0.150	
SM 2540 C-97	TDS				4.78	
SM 4500 F-C-97	Fluoride	98.0	98.5 98.5			0.0
SM 5310 B-00	Organic Carbon	99.8				0.311
USGS O-2060-01	2,4-D	103	96.1 98.9			2.87
	Acetaminophen	85.8	125 141			12.4
	Bentazon	96.7	92.7 99.2			6.73
	Carbamazepine	102	97.9 115			15.8
	Diuron	82.9	84.2 98.0			15.1
	Fenuron	112	73.5 85.2			14.7
	Fluridone	115	80.9 95.1			16.1
	Imidacloprid	102	164 194			16.6
	Linuron	93.5	89.8 100			11.1
	MCP	95.9	78.5 85.6			8.71
	Primidone	95.0	79.2 90.5			13.3
	Triclopyr	95.2	76.9 79.8			3.69

Reference Method Descriptions

Method / DoH Cert #

Description

Associated Samples

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1958067, 1958068, 1958069, 1958070, 1958071
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1958067, 1958068, 1958069, 1958070, 1958071
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1958072, 1958073, 1958074, 1958075, 1958076
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1958072, 1958073, 1958074, 1958075, 1958076
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1958072, 1958073, 1958074, 1958075, 1958076
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1958072, 1958073, 1958074, 1958075, 1958076
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1958077, 1958078, 1958079, 1958080, 1958081
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1958097, 1958098, 1958099, 1958100, 1958101
SM 2120 B / E31780	True Color measured at 450 nm	1958067, 1958068, 1958069, 1958070, 1958071
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1958067, 1958068, 1958069, 1958070, 1958071
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1958067, 1958068, 1958069, 1958070, 1958071
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1958067, 1958068, 1958069, 1958070, 1958071
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1958067, 1958068, 1958069, 1958070, 1958071
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1958072, 1958073, 1958074, 1958075, 1958076
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1958097, 1958098, 1958099, 1958100, 1958101
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1958097, 1958098, 1958099, 1958100, 1958101

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	01/09/2018			01/10/2018 17:59	Tanya Welborn	1958067, 1958068, 1958069, 1958070, 1958071
EPA 300.0 Rev. 2.1	01/09/2018			01/12/2018	Julia Storbeck	1958067, 1958068, 1958069, 1958070, 1958071
EPA 350.1 Rev. 2.0	01/09/2018			01/16/2018	Sofia Elnemr	1958072, 1958073, 1958074, 1958075
	01/09/2018			01/17/2018	Sofia Elnemr	1958076
EPA 351.2 Rev. 2.0	01/09/2018	01/11/2018	Adrian Shelby	01/12/2018	Joseph Suarez	1958072, 1958073, 1958074, 1958075, 1958076
EPA 353.2 Rev. 2.0	01/09/2018			01/11/2018	Lauren Bottorf	1958073, 1958074
	01/09/2018			01/12/2018	Lauren Bottorf	1958072, 1958075, 1958076
EPA 365.1 Rev. 2.0	01/09/2018	01/11/2018	Sima Feizi	01/12/2018	Beverly Y. Sanders	1958072, 1958073, 1958074, 1958075, 1958076
EPA 365.1 Rev. 2.0 dissolved	01/09/2018			01/10/2018 16:36	Megan Treadwell	1958078, 1958079
	01/09/2018			01/10/2018 16:37	Megan Treadwell	1958080
	01/09/2018			01/10/2018 17:02	Megan Treadwell	1958077
	01/09/2018			01/10/2018 17:08	Megan Treadwell	1958081
EPA 8321B	01/09/2018	01/16/2018	Juyoung Kim	01/17/2018	Juyoung Kim	1958097, 1958098, 1958099, 1958100, 1958101
SM 2120 B	01/09/2018			01/10/2018 16:27	Tanya Welborn	1958067
	01/09/2018			01/10/2018 16:28	Tanya Welborn	1958068
	01/09/2018			01/10/2018 16:29	Tanya Welborn	1958069, 1958070
	01/09/2018			01/10/2018 16:30	Tanya Welborn	1958071
SM 2320 B-97	01/09/2018			01/13/2018	Dale L. Simmons	1958067, 1958068, 1958069, 1958070, 1958071
SM 2540 C-97	01/09/2018			01/13/2018	Yijie Li	1958067, 1958068, 1958069, 1958070, 1958071
SM 2540 D-97	01/09/2018			01/13/2018	Yijie Li	1958067, 1958068, 1958069, 1958070, 1958071
SM 4500 F-C-97	01/09/2018			01/13/2018	Dale L. Simmons	1958067, 1958068, 1958069, 1958070, 1958071
SM 5310 B-00	01/09/2018			01/12/2018	Megan Treadwell	1958072, 1958073, 1958074, 1958075, 1958076
USGS O-2060-01	01/09/2018	01/10/2018	Hoor Shaik	01/11/2018	Julie Michelle Frank	1958097, 1958098, 1958099, 1958100, 1958101
	01/09/2018	01/10/2018	Hoor Shaik	01/17/2018	Julie Michelle Frank	1958097, 1958098, 1958099, 1958100, 1958101