

Chemical Analysis Report

NE-DIST-2018-01-24-02

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

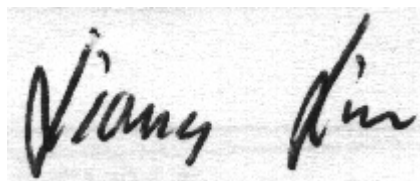
Event Description: **Suwannee North 2**
Request ID: **RQ-2018-01-22-12**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Jacksonville, FL 32256-7577
Attn: Jeremy Parrish

For additional information please contact
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 12-FEB-2018 17:29

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

Case Narrative

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

Results for the following analytical 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: ROCKY CREEK @ WOODPECKER RD

Collection Date/Time: 01/23/2018 09:55

Field ID: 21010032

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961575	EPA 180.1 Rev. 2.0	Turbidity	3.1	A	NTU	P338721	
	EPA 300.0 Rev. 2.1	Chloride	8.7		mg Cl/L	P338846	
		Sulfate	1.1		mg SO4/L	P338848	
	SM 2120 B	Color (true)	700		PCU	P338732	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P339015	
	SM 2540 C-97	TDS	154		mg/L	P339140	
	SM 2540 D-97	TSS	2	I	mg/L	P339362	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P339020	
1961576	EPA 350.1 Rev. 2.0	Ammonia-N	0.13		mg N/L	P339116	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P338908	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.005	I	mg N/L	P338783	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P338880	
	SM 5310 B-00	Organic Carbon	78		mg C/L	P339205	
1961577	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.087		mg P/L	P338756	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2320 B-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: LITTLE CREEK AT 441

Collection Date/Time: 01/23/2018 10:40

Field ID: 21010033

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961566	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P338720	
	EPA 300.0 Rev. 2.1	Chloride	9.9		mg Cl/L	P338846	
		Sulfate	0.64		mg SO4/L	P338848	
	SM 2120 B	Color (true)	360		PCU	P338731	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P339015	
	SM 2540 C-97	TDS	97		mg/L	P339139	
	SM 2540 D-97	TSS	2	I	mg/L	P339361	
	SM 4500 F-C-97	Fluoride	0.11		mg F/L	P339020	
1961568	EPA 350.1 Rev. 2.0	Ammonia-N	0.005		mg N/L	P339116	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P338743	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P338783	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P338879	
	SM 5310 B-00	Organic Carbon	43		mg C/L	P339205	
1961570	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.12		mg P/L	P338756	
1961603	EPA 8321B	Sucralose**	0.010	U	ug/L	P338739	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P338701	
		Diuron	0.0020	U	ug/L	P338701	
		Fenuron	0.0080	U	ug/L	P338701	
		Imidacloprid	0.0020	U	ug/L	P338701	MS
		Bentazon	8.0E-04	U	ug/L	P338701	

Field ID: 21010033

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961603	USGS O-2060-01	Linuron	0.0040	U	ug/L	P338701	
		Acetaminophen**	0.0080	U	ug/L	P338701	
		MCP	0.0020	U	ug/L	P338701	
		Carbamazepine**	4.0E-04	U	ug/L	P338701	
		Triclopyr**	0.0040	U	ug/L	P338701	
		Primidone**	0.0040	U	ug/L	P338701	
		Fluridone**	4.0E-04	U	ug/L	P338701	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2320 B-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: FALLING CREEK @ US 441

Collection Date/Time: 01/23/2018 11:45

Field ID: 21010064

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961567	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P338720	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P338846	
		Sulfate	1.4		mg SO4/L	P338848	
	SM 2120 B	Color (true)	250		PCU	P338731	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P339014	
	SM 2540 C-97	TDS	82		mg/L	P339140	
	SM 2540 D-97	TSS	2	I	mg/L	P339362	
	SM 4500 F-C-97	Fluoride	0.089	I	mg F/L	P339019	RPD
1961569	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P339116	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.74		mg N/L	P338743	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P338783	
	EPA 365.1 Rev. 2.0	Total-P	0.034		mg P/L	P338880	
	SM 5310 B-00	Organic Carbon	27		mg C/L	P339205	
1961571	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.019		mg P/L	P338756	
1961604	EPA 8321B	Sucralose**	0.14		ug/L	P338739	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P338701	
		Diuron	0.0020	U	ug/L	P338701	
		Fenuron	0.0080	U	ug/L	P338701	
		Imidacloprid	0.0020	U	ug/L	P338701	MS
		Bentazon	0.0028	I	ug/L	P338701	
		Linuron	0.0040	U	ug/L	P338701	
		Acetaminophen**	0.0080	U	ug/L	P338701	
		MCP	0.0020	U	ug/L	P338701	
		Carbamazepine**	4.0E-04	U	ug/L	P338701	
		Triclopyr**	0.0040	U	ug/L	P338701	
		Primidone**	0.0040	U	ug/L	P338701	
		Fluridone**	4.0E-04	U	ug/L	P338701	

Field ID: 21010064

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: HUNTERS CREEK AT 135

Collection Date/Time: 01/23/2018 09:35

Field ID: 21020063

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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1961605	EPA 8321B	Sucralose**	0.010	U	ug/L	P338739	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P338701	
		Diuron	0.0020	U	ug/L	P338701	
		Fenuron	0.0080	U	ug/L	P338701	
		Imidacloprid	0.0020	UJ	ug/L	P338701	MS
		Bentazon	8.0E-04	U	ug/L	P338701	
		Linuron	0.0040	U	ug/L	P338701	
		Acetaminophen**	0.0080	U	ug/L	P338701	
		MCP	0.0020	U	ug/L	P338701	
		Carbamazepine**	4.0E-04	U	ug/L	P338701	
		Triclopyr**	0.0040	U	ug/L	P338701	
		Primidone**	0.0040	U	ug/L	P338701	
		Fluridone**	4.0E-04	U	ug/L	P338701	

Ref. Method and Comment:

USGS O-2060-01: Refer to the narrative for an explanation of QC Codes.

Sample Location: DEEP CREEK AT 441

Collection Date/Time: 01/23/2018 11:10

Field ID: 21010051

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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1961572	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P338721	
	EPA 300.0 Rev. 2.1	Chloride	8.5		mg Cl/L	P338846	
		Sulfate	0.36	I	mg SO4/L	P338848	
	SM 2120 B	Color (true)	430		PCU	P338732	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P339014	
	SM 2540 C-97	TDS	97		mg/L	P339140	
	SM 2540 D-97	TSS	2	I	mg/L	P339362	
	SM 4500 F-C-97	Fluoride	0.071	I	mg F/L	P339019	RPD
1961573	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P339116	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.95		mg N/L	P338743	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P338783	
	EPA 365.1 Rev. 2.0	Total-P	0.062		mg P/L	P338880	
	SM 5310 B-00	Organic Carbon	43		mg C/L	P339205	
1961574	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.048		mg P/L	P338756	
1961606	EPA 8321B	Sucralose**	0.010	U	ug/L	P338739	
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P338701	
		Diuron	0.0020	U	ug/L	P338701	

Field ID: 21010051

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1961606	USGS O-2060-01	Fenuron	0.0080	U	ug/L	P338701	
		Imidacloprid	0.0020	U	ug/L	P338701	MS
		Bentazon	8.0E-04	U	ug/L	P338701	
		Linuron	0.0040	U	ug/L	P338701	
		Acetaminophen**	0.0080	U	ug/L	P338701	
		MCP	0.0020	U	ug/L	P338701	
		Carbamazepine**	4.0E-04	U	ug/L	P338701	
		Triclopyr**	0.0040	U	ug/L	P338701	
		Primidone**	0.0040	U	ug/L	P338701	
		Fluridone**	4.0E-04	U	ug/L	P338701	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: 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: P338720

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P338721

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P338846

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P338848

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P339116

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P338743

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338908

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338783

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338879

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338880

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P338756

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

Reference Method: EPA 8321B
Batch ID: P338739

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P338731

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P338732

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P339014

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P339015

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

Reference Method: SM 2540 C-97
Batch ID: P339139

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P339140

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P339361

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P339362

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P339019

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P339020

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P339205

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

Reference Method: USGS O-2060-01
Batch ID: P338701

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: USGS O-2060-01
Batch ID: P338701

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338846

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338848

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339116

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338743

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338908

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338783

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338879

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338880

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P338756

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

Reference Method: EPA 8321B
Batch ID: P338739

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	111		P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P339014

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.5		P	95 - 108

Reference Method: SM 2320 B-97
Batch ID: P339015

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P339019

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

Reference Method: SM 4500 F-C-97
Batch ID: P339020

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.1		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P339205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.1		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: USGS O-2060-01
Batch ID: P338701

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	76.3		P	40 - 150
Acetaminophen	102		P	30 - 150
Bentazon	79.7		P	30 - 150
Carbamazepine	106		P	40 - 150
Diuron	92.8		P	40 - 150
Fenuron	120		P	40 - 150
Fluridone	112		P	40 - 150
Imidacloprid	115		P	40 - 160
Linuron	103		P	40 - 150
MCPP	77.2		P	40 - 150
Primidone	118		P	40 - 150
Triclopyr	76.1		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961731	Chloride	99.0		P	90 - 110
1961732	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338848

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961731	Sulfate	96.4		P	90 - 110
1961732	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339116

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961569	Ammonia-N	102	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961558	Kjeldahl Nitrogen	104	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338908

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1962623	Kjeldahl Nitrogen	105	104	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338783

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961558	NO2NO3-N	102	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338879

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961555	Total-P	96.1	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338880

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961637	Total-P	99.6	100	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P338739

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961510	Sucralose	100	119	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P339019

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961729	Fluoride	93.7	105	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P339020

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961779	Fluoride	97.1	98.0	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P339205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961143	Organic Carbon	98.0	98.7	P/P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P338701

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961605	2,4-D	123	118	P/P	40 - 150
1961605	Acetaminophen	138	137	P/P	30 - 150
1961605	Bentazon	67.7	66.5	P/P	30 - 150
1961605	Carbamazepine	118	122	P/P	40 - 150
1961605	Diuron	102	103	P/P	40 - 150
1961605	Fenuron	105	108	P/P	40 - 150
1961605	Fluridone	104	110	P/P	40 - 150
1961605	Imidacloprid	196	189	F/F	40 - 160
1961605	Linuron	105	108	P/P	40 - 150
1961605	MCP	95.4	91.8	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: USGS O-2060-01
Batch ID: P338701

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1961605	Primidone	123	125	P/P	40 - 150
1961605	Triclopyr	105	99.8	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P338720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961493	Turbidity	5.40	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P338721

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961575	Turbidity	0.327	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P338846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961731	Chloride	1.62	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P339116

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961569	Ammonia-N	3.25	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961558	Kjeldahl Nitrogen	2.50	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P338908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1962623	Kjeldahl Nitrogen	0.171	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P338783

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961558	NO2NO3-N	0.637	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338879

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961555	Total-P	4.25	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P338880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961637	Total-P	0.647	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P338756

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961570	O-Phosphate-P	0.851	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P338739

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961510	Sucralose	14.1	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P338731

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961484	Color (true)	0.955	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P338732

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961612	Color (true)	15.5	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P339014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961729	Total Alkalinity	0.332	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P339139

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961493	TDS	4.94	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P339140

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961614	TDS	5.10	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P339019

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961729	Fluoride	9.10	Spike	F	0 - 3.0

Reference Method: SM 4500 F-C-97
Batch ID: P339020

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961779	Fluoride	0.938	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P339205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961143	Organic Carbon	0.503	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P338701

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1961605	2,4-D	4.40	Spike	P	0 - 30
1961605	Acetaminophen	1.09	Spike	P	0 - 30
1961605	Bentazon	1.79	Spike	P	0 - 30
1961605	Carbamazepine	2.50	Spike	P	0 - 30
1961605	Diuron	1.36	Spike	P	0 - 30
1961605	Fenuron	3.20	Spike	P	0 - 30
1961605	Fluridone	5.77	Spike	P	0 - 30
1961605	Imidacloprid	3.48	Spike	P	0 - 30
1961605	Linuron	2.35	Spike	P	0 - 30
1961605	MCP	3.85	Spike	P	0 - 30
1961605	Primidone	1.29	Spike	P	0 - 30
1961605	Triclopyr	5.25	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: 1961603
Field Sample ID: 21010033

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	146	P	30 - 160
EPA 8321B	Carbamazepine-d10	116	P	30 - 160
EPA 8321B	Diuron-d6	99.1	P	30 - 160
EPA 8321B	Primidone-d5	84.6	P	30 - 160
EPA 8321B	Sucralose-d6	141	P	40 - 160
USGS O-2060-01	2,4-D-d3	87.4	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	146	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	116	P	30 - 160
USGS O-2060-01	Diuron-d6	99.1	P	30 - 160
USGS O-2060-01	Primidone-d5	84.6	P	30 - 160
USGS O-2060-01	Sucralose-d6	141	P	40 - 160

Lab Sample ID: 1961604
Field Sample ID: 21010064

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	128	P	30 - 160
EPA 8321B	Carbamazepine-d10	103	P	30 - 160
EPA 8321B	Diuron-d6	97.1	P	30 - 160
EPA 8321B	Primidone-d5	114	P	30 - 160
EPA 8321B	Sucralose-d6	127	P	40 - 160
USGS O-2060-01	2,4-D-d3	89.2	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	128	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	103	P	30 - 160
USGS O-2060-01	Diuron-d6	97.1	P	30 - 160
USGS O-2060-01	Primidone-d5	114	P	30 - 160
USGS O-2060-01	Sucralose-d6	127	P	40 - 160

Lab Sample ID: 1961605
Field Sample ID: 21020063

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	122	P	30 - 160
EPA 8321B	Carbamazepine-d10	111	P	30 - 160
EPA 8321B	Diuron-d6	89.5	P	30 - 160
EPA 8321B	Primidone-d5	107	P	30 - 160
EPA 8321B	Sucralose-d6	139	P	40 - 160
USGS O-2060-01	2,4-D-d3	104	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	122	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	111	P	30 - 160
USGS O-2060-01	Diuron-d6	89.5	P	30 - 160
USGS O-2060-01	Primidone-d5	107	P	30 - 160
USGS O-2060-01	Sucralose-d6	139	P	40 - 160

Lab Sample ID: 1961606
Field Sample ID: 21010051

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	133	P	30 - 160
EPA 8321B	Carbamazepine-d10	111	P	30 - 160
EPA 8321B	Diuron-d6	91.2	P	30 - 160
EPA 8321B	Primidone-d5	85.2	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1961606
Field Sample ID: 21010051

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	140	P	40 - 160
USGS O-2060-01	2,4-D-d3	81.2	P	30 - 160
USGS O-2060-01	Acetaminophen-d4	133	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	111	P	30 - 160
USGS O-2060-01	Diuron-d6	91.2	P	30 - 160
USGS O-2060-01	Primidone-d5	85.2	P	30 - 160
USGS O-2060-01	Sucralose-d6	140	P	40 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A81616
Included Lab Sample IDs: 1961566, 1961567, 1961572, 1961575

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A81628
Included Lab Sample IDs: 1961566, 1961567, 1961572, 1961575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	98.5	P/P	95 - 105

Reference Method: SM 2120 B
Run ID: A81630
Included Lab Sample IDs: 1961566, 1961567, 1961575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	108	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A81635
Included Lab Sample IDs: 1961570, 1961571, 1961574, 1961577

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.8	99.9	P/P	90 - 110
O-Phosphate-P	99.9	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A81644
Included Lab Sample IDs: 1961568, 1961569, 1961573, 1961576

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

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A81671

Included Lab Sample IDs: 1961603, 1961604, 1961605, 1961606

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	87.9	92.0	P/P	50 - 150
Acetaminophen	103	103	P/P	60 - 150
Bentazon	96.9	104	P/P	50 - 150
Carbamazepine	108	107	P/P	60 - 150
Diuron	108	109	P/P	60 - 150
Fenuron	108	111	P/P	60 - 150
Fluridone	119	121	P/P	60 - 160
Imidacloprid	103	109	P/P	60 - 150
Linuron	109	114	P/P	60 - 150
MCPP	93.0	88.5	P/P	50 - 150
Primidone	116	116	P/P	60 - 150
Triclopyr	95.6	90.7	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A81684

Included Lab Sample IDs: 1961568, 1961569, 1961573

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.4	96.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A81703

Included Lab Sample IDs: 1961568, 1961573, 1961576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	101	P/P	90 - 110
Total-P	101	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A81706

Included Lab Sample IDs: 1961569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	104	103	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A81727

Included Lab Sample IDs: 1961603, 1961604, 1961605, 1961606

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	111	114	P/P	60 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A81735

Included Lab Sample IDs: 1961576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.5	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A81736

Included Lab Sample IDs: 1961566, 1961567, 1961572, 1961575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.1	99.0	P/P	90 - 110
Total Alkalinity	99.0	97.2	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A81736

Included Lab Sample IDs: 1961566, 1961567, 1961572, 1961575

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A81777

Included Lab Sample IDs: 1961568, 1961569, 1961573, 1961576

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

Reference Method: SM 5310 B-00

Run ID: A81806

Included Lab Sample IDs: 1961568, 1961569, 1961573, 1961576

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	96.2	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						5.40	
	Turbidity						0.327	
EPA 300.0 Rev. 2.1	Chloride	100		99.0	101		1.62	
	Sulfate	98.7		96.4	101			
EPA 350.1 Rev. 2.0	Ammonia-N	99.6		102	98.0			3.25
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102		104	100			2.50
	Kjeldahl Nitrogen	98.6		105	104			0.171
EPA 353.2 Rev. 2.0	NO2NO3-N	102		102	100			0.637
EPA 365.1 Rev. 2.0	Total-P	101		96.1	101			4.25
	Total-P	97.5		99.6	100			0.647
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102						0.851
EPA 8321B	Sucralose	111		100	119			14.1
SM 2120 B	Color (true)						0.955	
	Color (true)						15.5	
SM 2320 B-97	Total Alkalinity	98.5					0.332	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
SM 2320 B-97	Total Alkalinity	101				
SM 2540 C-97	TDS					4.94
	TDS					5.10
SM 4500 F-C-97	Fluoride	97.1	93.7	105		9.10
	Fluoride	96.1	97.1	98.0		0.938
SM 5310 B-00	Organic Carbon	96.1	98.0	98.7		0.503
USGS O-2060-01	2,4-D	76.3	118	123		4.40
	Acetaminophen	102	138	137		1.09
	Bentazon	79.7	66.5	67.7		1.79
	Carbamazepine	106	118	122		2.50
	Diuron	92.8	102	103		1.36
	Fenuron	120	105	108		3.20
	Fluridone	112	104	110		5.77
	Imidacloprid	115	196	189		3.48
	Linuron	103	105	108		2.35
	MCP	77.2	91.8	95.4		3.85
	Primidone	118	123	125		1.29
	Triclopyr	76.1	99.8	105		5.25

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1961566, 1961567, 1961572, 1961575
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1961566, 1961567, 1961572, 1961575
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1961566, 1961567, 1961572, 1961575
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1961568, 1961569, 1961573, 1961576
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1961568, 1961569, 1961573, 1961576
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1961568, 1961569, 1961573, 1961576
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1961568, 1961569, 1961573, 1961576
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1961570, 1961571, 1961574, 1961577
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1961603, 1961604, 1961605, 1961606
SM 2120 B / E31780	True Color measured at 450 nm	1961566, 1961567, 1961572, 1961575
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1961566, 1961567, 1961572, 1961575
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1961566, 1961567, 1961572, 1961575
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1961566, 1961567, 1961572, 1961575
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1961566, 1961567, 1961572, 1961575
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1961568, 1961569, 1961573, 1961576
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1961603, 1961604, 1961605, 1961606
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1961603, 1961604, 1961605, 1961606

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	01/24/2018			01/24/2018 15:22	DeAsia Armster	1961566, 1961567, 1961572, 1961575
EPA 300.0 Rev. 2.1	01/24/2018			01/25/2018	Julia Storbeck	1961566, 1961567, 1961572, 1961575
EPA 350.1 Rev. 2.0	01/24/2018			01/31/2018	Ping Hua	1961568, 1961569, 1961573, 1961576
EPA 351.2 Rev. 2.0	01/24/2018	01/25/2018	Adrian Shelby	01/26/2018	Joseph Suarez	1961568, 1961569, 1961573
	01/24/2018	01/29/2018	Adrian Shelby	01/30/2018	Joseph Suarez	1961576
EPA 353.2 Rev. 2.0	01/24/2018			01/25/2018	Beverly Y. Sanders	1961568, 1961569, 1961573, 1961576
EPA 365.1 Rev. 2.0	01/24/2018	01/26/2018	Sima Feizi	01/29/2018	Lipi Saha	1961568, 1961569, 1961573, 1961576
EPA 365.1 Rev. 2.0 dissolved	01/24/2018			01/24/2018 15:13	Megan Treadwell	1961570
	01/24/2018			01/24/2018 15:35	Megan Treadwell	1961571
	01/24/2018			01/24/2018 15:36	Megan Treadwell	1961574
	01/24/2018			01/24/2018 15:37	Megan Treadwell	1961577
EPA 8321B	01/24/2018	01/26/2018	Juyoung Kim	01/26/2018	Juyoung Kim	1961603, 1961604, 1961605, 1961606
SM 2120 B	01/24/2018			01/24/2018 16:47	Tanya Welborn	1961566
	01/24/2018			01/24/2018 16:48	Tanya Welborn	1961567
	01/24/2018			01/24/2018 16:49	Tanya Welborn	1961575
	01/24/2018			01/24/2018 17:47	Tanya Welborn	1961572
SM 2320 B-97	01/24/2018			01/30/2018	Lauren Bottorf	1961566, 1961567, 1961572, 1961575
SM 2540 C-97	01/24/2018			01/26/2018	Yijie Li	1961566, 1961567, 1961572, 1961575
SM 2540 D-97	01/24/2018			01/26/2018	Yijie Li	1961566, 1961567, 1961572, 1961575
SM 4500 F-C-97	01/24/2018			01/30/2018	Lauren Bottorf	1961566, 1961567, 1961572, 1961575
SM 5310 B-00	01/24/2018			01/31/2018	Megan Treadwell	1961568, 1961569, 1961573, 1961576
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