

Chemical Analysis Report

SE-DIST-2017-08-29-01

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

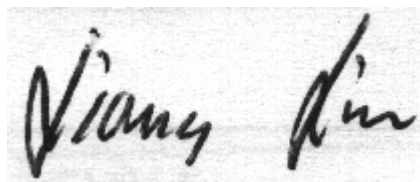
Event Description: **SMP-Broward Blue**
Request ID: **RQ-2017-08-28-30**
Customer: **SE-DIST**
Project ID: **SMP**

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

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Liang Lin, Environmental Administrator

Date Certified: 25-SEP-2017 11:02

A handwritten signature in black ink, appearing to read "Liang Lin", is written on a light-colored, textured 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: South New R. Canal @ S. Flamingo

Collection Date/Time: 08/28/2017 11:00

Field ID: 28030546

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1925926	EPA 180.1 Rev. 2.0	Turbidity	3.7	A	NTU	P331023	
	EPA 300.0 Rev. 2.1	Chloride	51		mg Cl/L	P331238	
		Sulfate	8.0		mg SO4/L	P331232	
	SM 2120 B	Color (true)	62		PCU	P331020	
	SM 2320 B-97	Total Alkalinity	247		mg CaCO3/L	P331108	
	SM 2540 C-97	TDS	375		mg/L	P331277	
	SM 2540 D-97	TSS	3	I	mg/L	P331269	
	SM 4500 F-C-97	Fluoride	0.22		mg F/L	P331109	
1925928	EPA 350.1 Rev. 2.0	Ammonia-N	0.47		mg N/L	P331165	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P331036	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P331113	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P331055	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P331190	
1925930	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P331003	
1925997	EPA 8321B	Sucralose**	0.071		ug/L	P331019	
	USGS O-2060-01	2,4-D	0.15		ug/L	P331018	
		Diuron	0.068		ug/L	P331018	
		Fenuron	0.0086	I	ug/L	P331018	
		Imidacloprid	0.043		ug/L	P331018	
		Bentazon	0.0097		ug/L	P331018	MS
		Linuron	0.0040	U	ug/L	P331018	MS
		Acetaminophen**	0.0080	U	ug/L	P331018	
		MCP	0.0020	U	ug/L	P331018	
		Carbamazepine**	5.1E-04	I	ug/L	P331018	
		Triclopyr**	0.0040	U	ug/L	P331018	RPD
		Primidone**	0.0040	U	ug/L	P331018	
		Fluridone**	0.021		ug/L	P331018	MS

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

USGS O-2060-01: Results confirmed in re-extraction.

USGS O-2060-01: MS accuracy for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample. Results confirmed in re-extraction.

Sample Location: South New R. Canal @ S. Flamingo

Collection Date/Time: 08/28/2017 11:15

Field ID: 28030546_BLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1925941	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P331198	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P331037	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P331113	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P331055	
	SM 5310 B-00	Organic Carbon	0.94	I	mg C/L	P331190	
1925942	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P331003	
1926001	EPA 8321B	Sucralose**	0.010	U	ug/L	P331019	

Field ID: 28030546_BLANK

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1926001	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P331018	
		Diuron	8.0E-04	U	ug/L	P331018	
		Fenuron	0.0080	U	ug/L	P331018	
		Imidacloprid	8.0E-04	U	ug/L	P331018	
		Bentazon	8.0E-04	U	ug/L	P331018	MS
		Linuron	0.0040	U	ug/L	P331018	MS
		Acetaminophen**	0.0080	UJ	ug/L	P331018	SUR
		MCP	0.0020	U	ug/L	P331018	
		Carbamazepine**	4.0E-04	UJ	ug/L	P331018	SUR
		Triclopyr**	0.0040	U	ug/L	P331018	RPD
		Primidone**	0.0040	U	ug/L	P331018	
		Fluridone**	4.0E-04	U	ug/L	P331018	MS
1926010	EPA 200.7 Rev. 4.4	Iron	30	U	ug/L	P331134	
	EPA 200.8 Rev. 5.4	Arsenic	0.050	U	ug/L	P331134	
		Cadmium	0.020	U	ug/L	P331134	
		Chromium	0.40	U	ug/L	P331134	
		Copper	0.20	U	ug/L	P331134	
		Lead	0.050	U	ug/L	P331134	
		Nickel	0.20	U	ug/L	P331134	
		Silver	0.010	U	ug/L	P331134	
		Zinc	1.0	U	ug/L	P331134	

Ref. Method and Comment:

SM 5310 B-00: The result was confirmed on 09/01/2017.

USGS O-2060-01: Results confirmed in re-extraction.

USGS O-2060-01: Refer to the narrative for an explanation of QC Codes. MS accuracy for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample. Acetaminophen-d4 and carbamazepine-d10 surrogate spike recovery exceeding the control limits. Results confirmed in re-extraction.

Sample Location: S. New River Canal (East)

Collection Date/Time: 08/28/2017 11:35

Field ID: G4SE0047

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1925927	EPA 180.1 Rev. 2.0	Turbidity	5.0		NTU	P331023	
	EPA 300.0 Rev. 2.1	Chloride	39		mg Cl/L	P331238	
		Sulfate	6.8		mg SO4/L	P331232	
	SM 2120 B	Color (true)	65		PCU	P331020	
	SM 2320 B-97	Total Alkalinity	219		mg CaCO3/L	P331108	
	SM 2540 C-97	TDS	315	A	mg/L	P331277	
	SM 2540 D-97	TSS	8	IA	mg/L	P331269	
	SM 4500 F-C-97	Fluoride	0.19		mg F/L	P331109	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.61		mg N/L	P331165	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P331036	
1925929	EPA 353.2 Rev. 2.0	NO2NO3-N	0.17		mg N/L	P331113	
	EPA 365.1 Rev. 2.0	Total-P	0.067		mg P/L	P331055	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P331190	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.015		mg P/L	P331003	
	dissolved						
1925998	EPA 8321B	Sucralose**	0.11		ug/L	P331019	

Field ID: G4SE0047

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1925998	USGS O-2060-01	2,4-D	0.13	J	ug/L	P331018	SUR
		Diuron	0.0090		ug/L	P331018	
		Fenuron	0.0080	U	ug/L	P331018	
		Imidacloprid	0.082		ug/L	P331018	
		Bentazon	0.027	J	ug/L	P331018	MS, SUR
		Linuron	0.0040	U	ug/L	P331018	MS
		Acetaminophen**	0.0080	U	ug/L	P331018	
		MCP	0.0020	UJ	ug/L	P331018	SUR
		Carbamazepine**	0.0028		ug/L	P331018	
		Triclopyr**	0.0040	UJ	ug/L	P331018	RPD
		Primidone**	0.0040	U	ug/L	P331018	
		Fluridone**	0.023		ug/L	P331018	MS

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

USGS O-2060-01: Refer to the narrative for an explanation of QC Codes. 2,4-D-d3 surrogate spike recovery exceeding the control limits. Results confirmed in re-extraction.

USGS O-2060-01: MS accuracy for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample. Results confirmed in re-extraction.

Sample Location: Dania Cutoff Canal @ US 1

Collection Date/Time: 08/28/2017 11:50

Field ID: 28030552

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1925935	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P331023	
	SM 2320 B-97	Total Alkalinity	172		mg CaCO3/L	P331111	
	SM 2540 D-97	TSS	3	U	mg/L	P331271	
	SM 4500 F-C-97	Fluoride	0.29		mg F/L	P331304	
1925936	EPA 350.1 Rev. 2.0	Ammonia-N	0.40		mg N/L	P331456	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P331103	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.085		mg N/L	P331417	
	EPA 365.1 Rev. 2.0	Total-P	0.070		mg P/L	P331064	
	SM 5310 B-00	Organic Carbon	8.3		mg C/L	P331189	
1925937	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.044		mg P/L	P331005	
1925999	EPA 8321B	Sucralose**	0.45		ug/L	P331019	
	USGS O-2060-01	2,4-D	0.070	J	ug/L	P331018	SUR
		Diuron	0.076		ug/L	P331018	
		Fenuron	0.0080	U	ug/L	P331018	
		Imidacloprid	0.048		ug/L	P331018	
		Bentazon	0.015	J	ug/L	P331018	MS, SUR
		Linuron	0.0040	U	ug/L	P331018	MS
		Acetaminophen**	0.0080	U	ug/L	P331018	
		MCP	0.0049	IJ	ug/L	P331018	SUR
		Carbamazepine**	0.0083	J	ug/L	P331018	SUR
		Triclopyr**	0.0040	UJ	ug/L	P331018	RPD
		Primidone**	0.0040	U	ug/L	P331018	
		Fluridone**	0.0093		ug/L	P331018	MS

Field ID: 28030552

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1926009	EPA 200.7 Rev. 4.4	Iron	220	I	ug/L	P331265	
	EPA 200.8 Rev. 5.4	Arsenic	2.1	I	ug/L	P331265	
		Cadmium	0.15	U	ug/L	P331265	
		Chromium	0.90	U	ug/L	P331265	
		Copper	3.8		ug/L	P331265	
		Lead	0.60	U	ug/L	P331265	
		Nickel	0.75	U	ug/L	P331265	
		Silver	0.075	U	ug/L	P331265	
		Zinc	15	U	ug/L	P331265	

Ref. Method and Comment:

USGS O-2060-01: Refer to the narrative for an explanation of QC Codes. 2,4-D-d3 surrogate spike recovery exceeding the control limits. Results confirmed in re-extraction.

USGS O-2060-01: Refer to the narrative for an explanation of QC Codes. MS accuracy for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample. Carbamazepine-d10 surrogate spike recovery exceeding the control limits. Results confirmed in re-extraction.

EPA 200.8 Rev. 5.4: The copper result was confirmed in the undigested sample on 09/22/2017.

Sample Location: C-10 Canal @ Stirling Rd.

Collection Date/Time: 08/28/2017 12:25

Field ID: G4SE0036

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1925938	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P331023	
	SM 2320 B-97	Total Alkalinity	163		mg CaCO3/L	P331108	
	SM 2540 D-97	TSS	2	I	mg/L	P331270	
	SM 4500 F-C-97	Fluoride	0.19		mg F/L	P331109	
1925939	EPA 350.1 Rev. 2.0	Ammonia-N	0.43		mg N/L	P331198	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P331037	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.30		mg N/L	P331113	
	EPA 365.1 Rev. 2.0	Total-P	0.095		mg P/L	P331055	
	SM 5310 B-00	Organic Carbon	6.1		mg C/L	P331190	
1925940	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.066		mg P/L	P331003	
1926000	EPA 8321B	Sucralose**	1.2		ug/L	P331019	
	USGS O-2060-01	2,4-D	0.037		ug/L	P331018	
		Diuron	0.046		ug/L	P331018	
		Fenuron	0.0080	U	ug/L	P331018	
		Imidacloprid	0.050		ug/L	P331018	
		Bentazon	0.0082		ug/L	P331018	MS
		Linuron	0.0040	U	ug/L	P331018	MS
		Acetaminophen**	0.0080	U	ug/L	P331018	
		MCP	0.0020	U	ug/L	P331018	
		Carbamazepine**	0.014		ug/L	P331018	
		Triclopyr**	0.0040	U	ug/L	P331018	RPD
		Primidone**	0.0078	I	ug/L	P331018	
		Fluridone**	0.0060		ug/L	P331018	MS

Ref. Method and Comment:

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

USGS O-2060-01: Results confirmed in re-extraction.

USGS O-2060-01: MS accuracy for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample. Results confirmed in re-extraction.

Sample Location: West Lake Middle North Sheridan

Collection Date/Time: 08/28/2017 12:45

Field ID: G4SE0037

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1925932	EPA 180.1 Rev. 2.0	Turbidity	15		NTU	P331023	
	SM 2320 B-97	Total Alkalinity	137		mg CaCO3/L	P331111	
	SM 2540 D-97	TSS	17	A	mg/L	P331271	
	SM 4500 F-C-97	Fluoride	0.88		mg F/L	P331303	
1925933	EPA 350.1 Rev. 2.0	Ammonia-N	0.058		mg N/L	P331291	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P331103	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.27		mg N/L	P331417	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P331064	
	SM 5310 B-00	Organic Carbon	5.1		mg C/L	P331189	
1925934	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.007	I	mg P/L	P331005	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P331023

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P331134

Component	Result	Code	Units
Iron	30	U	ug/L

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P331265

Component	Result	Code	Units
Iron	30	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P331134

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
Zinc	1.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P331265

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P331265

Component	Result	Code	Units
Arsenic	0.25	U	ug/L
Cadmium	0.050	U	ug/L
Chromium	0.30	U	ug/L
Copper	0.50	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.25	U	ug/L
Silver	0.025	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331232

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331238

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331165

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331198

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331291

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331456

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331036

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: P331037

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331103

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331113

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331417

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331055

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331064

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331003

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331005

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

Reference Method: EPA 8321B
Batch ID: P331019

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B
Batch ID: P331020

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P331108

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

Reference Method: SM 2320 B-97
Batch ID: P331111

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

Reference Method: SM 2540 C-97
Batch ID: P331277

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P331269

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P331270

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P331271

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P331109

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P331303

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report Method Blank Results

Reference Method: SM 4500 F-C-97
Batch ID: P331304

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P331189

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

Reference Method: SM 5310 B-00
Batch ID: P331190

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

Reference Method: USGS O-2060-01
Batch ID: P331018

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	8.0E-04	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	8.0E-04	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 200.7 Rev. 4.4
Batch ID: P331134

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	107		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P331265

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	104		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P331134

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P331134

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Cadmium	101		P	85 - 115
Chromium	97.9		P	85 - 115
Copper	100		P	85 - 115
Lead	99.7		P	85 - 115
Nickel	102		P	85 - 115
Silver	103		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P331265

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	98.2		P	85 - 115
Cadmium	97.4		P	85 - 115
Chromium	96.4		P	85 - 115
Copper	93.9		P	85 - 115
Lead	96.5		P	85 - 115
Nickel	94.3		P	85 - 115
Silver	96.7		P	85 - 115
Zinc	94.5		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P331232

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	96.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P331238

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

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P331165

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

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P331198

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

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P331291

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.3		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331456

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331036

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331037

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331103

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331113

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: P331417

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: P331055

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331064

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331003

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 365.1 Rev. 2.0 dissolved
Batch ID: P331005

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.8		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P331019

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	120		P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P331108

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

Reference Method: SM 2320 B-97
Batch ID: P331111

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

Reference Method: SM 4500 F-C-97
Batch ID: P331109

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.1		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P331303

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.9		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P331304

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.9		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P331189

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	104		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P331190

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	103		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: USGS O-2060-01
Batch ID: P331018

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	95.6		P	40 - 150
Acetaminophen	120		P	30 - 150
Bentazon	43.3		P	40 - 150
Carbamazepine	117		P	40 - 150
Diuron	93.7		P	40 - 150
Fenuron	95.3		P	40 - 150
Fluridone	85.0		P	40 - 150
Imidacloprid	96.8		P	40 - 160
Linuron	79.2		P	40 - 150
MCPP	111		P	40 - 150
Primidone	105		P	40 - 150
Triclopyr	106		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P331134

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923909	Iron	108		P	80 - 120
1926383	Iron	110	109	P/P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P331265

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1926009	Iron	106	107	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P331134

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1923909	Arsenic	110		P	80 - 120
1923909	Cadmium	102		P	80 - 120
1923909	Chromium	92.7		P	80 - 120
1923909	Copper	97.5		P	80 - 120
1923909	Lead	103		P	80 - 120
1923909	Nickel	99.5		P	80 - 120
1923909	Silver	101		P	80 - 120
1923909	Zinc	100		P	80 - 120
1926383	Arsenic	104	104	P/P	80 - 120
1926383	Cadmium	102	103	P/P	80 - 120
1926383	Chromium	97.1	98.0	P/P	80 - 120
1926383	Copper	95.4	94.9	P/P	80 - 120
1926383	Lead	100	100	P/P	80 - 120
1926383	Nickel	96.7	96.2	P/P	80 - 120
1926383	Silver	102	103	P/P	80 - 120
1926383	Zinc	99.3	99.9	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P331265

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1926009	Arsenic	106	107	P/P	70 - 130
1926009	Cadmium	88.8	106	P/P	70 - 130
1926009	Chromium	97.8	99.3	P/P	70 - 130
1926009	Copper	93.6	93.1	P/P	70 - 130
1926009	Lead	104	105	P/P	70 - 130
1926009	Nickel	93.1	92.6	P/P	70 - 130
1926009	Silver	95.9	95.1	P/P	70 - 130
1926009	Zinc	101	102	P/P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331232

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1925903	Sulfate	100		P	90 - 110
1926043	Sulfate	95.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331238

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1925903	Chloride	106		P	90 - 110
1926043	Chloride	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331165

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1925910	Ammonia-N	96.3	94.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331198

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1926213	Ammonia-N	97.0	97.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331456

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1927217	Ammonia-N	96.7	95.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331037

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1926046	Kjeldahl Nitrogen	99.0	98.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331103

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1925936	Kjeldahl Nitrogen	101	99.1	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331113

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1925929	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331417

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1925933	NO2NO3-N	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331055

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1925910	Total-P	98.2	96.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331064

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1925933	Total-P	95.7	90.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331003

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1925911	O-Phosphate-P	95.8	97.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331005

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1925934	O-Phosphate-P	96.2	97.4	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P331019

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1925990	Sucralose	77.3	95.6	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P331109

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1924584	Fluoride	96.7	97.9	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P331303

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1924375	Fluoride	96.2	97.7	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P331304

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1926339	Fluoride	98.3	98.3	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P331189

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1924214	Organic Carbon	103	103	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P331190

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1924475	Organic Carbon	103	102	P/P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P331018

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1925991	2,4-D	96.6	88.7	P/P	40 - 150
1925991	Acetaminophen	91.2	86.8	P/P	30 - 150
1925991	Bentazon	20.2	17.9	F/F	40 - 150
1925991	Carbamazepine	90.4	84.6	P/P	40 - 150
1925991	Diuron	44.2	42.0	P/P	40 - 150
1925991	Fenuron	65.1	68.6	P/P	40 - 150
1925991	Fluridone	17.9	13.2	F/F	40 - 150
1925991	Linuron	37.9	35.7	F/F	40 - 150
1925991	MCPP	101	80.8	P/P	40 - 150
1925991	Primidone	91.2	91.6	P/P	40 - 150
1925991	Triclopyr	84.8	61.1	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P331023

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925926	Turbidity	4.32	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P331134

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1926383	Iron	0.653	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P331265

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1926009	Iron	1.07	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P331134

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1926383	Arsenic	0.291	Spike	P	0 - 20
1926383	Cadmium	1.14	Spike	P	0 - 20
1926383	Chromium	0.956	Spike	P	0 - 20
1926383	Copper	0.534	Spike	P	0 - 20
1926383	Lead	0.0946	Spike	P	0 - 20
1926383	Nickel	0.441	Spike	P	0 - 20
1926383	Silver	0.787	Spike	P	0 - 20
1926383	Zinc	0.580	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P331265

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1926009	Arsenic	0.663	Spike	P	0 - 20
1926009	Cadmium	17.3	Spike	P	0 - 20
1926009	Chromium	1.48	Spike	P	0 - 20
1926009	Copper	0.448	Spike	P	0 - 20
1926009	Lead	0.902	Spike	P	0 - 20
1926009	Nickel	0.510	Spike	P	0 - 20
1926009	Silver	0.875	Spike	P	0 - 20
1926009	Zinc	1.42	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331232

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925903	Sulfate	4.84	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P331238

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925903	Chloride	5.88	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331165

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925910	Ammonia-N	1.76	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331198

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1926213	Ammonia-N	0.188	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925933	Ammonia-N	0.528	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331456

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1927217	Ammonia-N	0.858	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331036

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925928	Kjeldahl Nitrogen	1.34	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331037

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1926046	Kjeldahl Nitrogen	0.359	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P331103

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925936	Kjeldahl Nitrogen	1.60	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331113

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925929	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925933	NO2NO3-N	0.210	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331055

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925910	Total-P	1.28	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331064

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925933	Total-P	5.02	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331003

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925911	O-Phosphate-P	2.17	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331005

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925934	O-Phosphate-P	1.15	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P331019

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925990	Sucralose	10.2	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P331020

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925909	Color (true)	1.54	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P331108

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924584	Total Alkalinity	0.457	Sample	P	0 - 4.8

Reference Method: SM 2320 B-97
Batch ID: P331111

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924375	Total Alkalinity	0.0252	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P331277

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925927	TDS	3.81	Sample	P	0 - 10

Reference Method: SM 2540 D-97
Batch ID: P331271

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925932	TSS	4.65	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P331109

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924584	Fluoride	0.996	Spike	P	0 - 3.0

Reference Method: SM 4500 F-C-97
Batch ID: P331303

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924375	Fluoride	0.960	Spike	P	0 - 3.0

Reference Method: SM 4500 F-C-97
Batch ID: P331304

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1926339	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P331189

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924214	Organic Carbon	0.0859	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P331190

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1924475	Organic Carbon	0.860	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P331018

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925991	2,4-D	8.27	Spike	P	0 - 30
1925991	Acetaminophen	4.43	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: USGS O-2060-01
Batch ID: P331018

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1925991	Bentazon	11.5	Spike	P	0 - 30
1925991	Carbamazepine	6.60	Spike	P	0 - 30
1925991	Diuron	2.85	Spike	P	0 - 30
1925991	Fenuron	5.31	Spike	P	0 - 30
1925991	Fluridone	29.7	Spike	P	0 - 30
1925991	Imidacloprid	4.74	Spike	P	0 - 30
1925991	Linuron	5.90	Spike	P	0 - 30
1925991	MCPP	22.3	Spike	P	0 - 30
1925991	Primidone	0.525	Spike	P	0 - 30
1925991	Triclopyr	32.4	Spike	F	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: 1925997
Field Sample ID: 28030546

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	118	P	30 - 160
EPA 8321B	Carbamazepine-d10	125	P	30 - 160
EPA 8321B	Diuron-d6	82.2	P	30 - 160
EPA 8321B	Primidone-d5	99.8	P	30 - 160
EPA 8321B	Sucralose-d6	57.8	P	40 - 160
USGS O-2060-01	2,4-D-d3	148	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	118	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	125	P	30 - 160
USGS O-2060-01	Diuron-d6	82.2	P	30 - 160
USGS O-2060-01	Primidone-d5	99.8	P	30 - 160
USGS O-2060-01	Sucralose-d6	57.8	P	40 - 160

Lab Sample ID: 1925998
Field Sample ID: G4SE0047

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	136	P	30 - 160
EPA 8321B	Carbamazepine-d10	160	P	30 - 160
EPA 8321B	Diuron-d6	97.3	P	30 - 160
EPA 8321B	Primidone-d5	127	P	30 - 160
EPA 8321B	Sucralose-d6	45.2	P	40 - 160
USGS O-2060-01	2,4-D-d3	208	F	40 - 160
USGS O-2060-01	Acetaminophen-d4	136	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	160	P	30 - 160
USGS O-2060-01	Diuron-d6	97.3	P	30 - 160
USGS O-2060-01	Primidone-d5	127	P	30 - 160
USGS O-2060-01	Sucralose-d6	45.2	P	40 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1925999
Field Sample ID: 28030552

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	146	P	30 - 160
EPA 8321B	Carbamazepine-d10	192	F	30 - 160
EPA 8321B	Diuron-d6	129	P	30 - 160
EPA 8321B	Primidone-d5	153	P	30 - 160
EPA 8321B	Sucralose-d6	59.4	P	40 - 160
USGS O-2060-01	2,4-D-d3	201	F	40 - 160
USGS O-2060-01	Acetaminophen-d4	146	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	192	F	30 - 160
USGS O-2060-01	Diuron-d6	129	P	30 - 160
USGS O-2060-01	Primidone-d5	153	P	30 - 160
USGS O-2060-01	Sucralose-d6	59.4	P	40 - 160

Lab Sample ID: 1926000
Field Sample ID: G4SE0036

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	134	P	30 - 160
EPA 8321B	Carbamazepine-d10	139	P	30 - 160
EPA 8321B	Diuron-d6	102	P	30 - 160
EPA 8321B	Primidone-d5	142	P	30 - 160
EPA 8321B	Sucralose-d6	71.8	P	40 - 160
USGS O-2060-01	2,4-D-d3	153	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	134	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	139	P	30 - 160
USGS O-2060-01	Diuron-d6	102	P	30 - 160
USGS O-2060-01	Primidone-d5	142	P	30 - 160
USGS O-2060-01	Sucralose-d6	71.8	P	40 - 160

Lab Sample ID: 1926001
Field Sample ID: 28030546_BLANK

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	169	F	30 - 160
EPA 8321B	Carbamazepine-d10	179	F	30 - 160
EPA 8321B	Diuron-d6	129	P	30 - 160
EPA 8321B	Primidone-d5	152	P	30 - 160
EPA 8321B	Sucralose-d6	109	P	40 - 160
USGS O-2060-01	2,4-D-d3	136	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	169	F	30 - 160
USGS O-2060-01	Carbamazepine-d10	179	F	30 - 160
USGS O-2060-01	Diuron-d6	129	P	30 - 160
USGS O-2060-01	Primidone-d5	152	P	30 - 160
USGS O-2060-01	Sucralose-d6	109	P	40 - 160

Quality Assurance Report Calibration Verification

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A78683

Included Lab Sample IDs: 1925930, 1925931, 1925934, 1925937, 1925940, 1925942

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.4	P/P	90 - 110
O-Phosphate-P	98.7	100	P/P	90 - 110
O-Phosphate-P	99.4	99.0	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A78689

Included Lab Sample IDs: 1925926, 1925927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.0	101	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A78690

Included Lab Sample IDs: 1925926, 1925927, 1925932, 1925935, 1925938

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: SM 2320 B-97

Run ID: A78722

Included Lab Sample IDs: 1925926, 1925927, 1925932, 1925935, 1925938

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	99.3	P/P	90 - 110
Total Alkalinity	103	99.8	P/P	90 - 110
Total Alkalinity	99.3	103	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A78722

Included Lab Sample IDs: 1925926, 1925927, 1925938

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	97.0	97.6	P/P	90 - 110
Fluoride	97.6	96.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A78723

Included Lab Sample IDs: 1925928, 1925929, 1925939, 1925941

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: A78726

Included Lab Sample IDs: 1925929, 1925939

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A78728

Included Lab Sample IDs: 1925928, 1925929

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	99.6	P/P	90 - 110
Kjeldahl Nitrogen	99.6	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A78733

Included Lab Sample IDs: 1925928, 1925933, 1925936, 1925941

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A78738

Included Lab Sample IDs: 1925939, 1925941

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	105	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A78741

Included Lab Sample IDs: 1925928, 1925929

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.0	94.8	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A78746

Included Lab Sample IDs: 1925928, 1925929, 1925933, 1925936, 1925939, 1925941

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	108	P/P	90 - 110
Organic Carbon	108	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A78752

Included Lab Sample IDs: 1925939, 1925941

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.7	99.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A78762

Included Lab Sample IDs: 1925933, 1925936

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A78767

Included Lab Sample IDs: 1925926, 1925927

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	108	P/P	90 - 110
Sulfate	101	109	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A78788

Included Lab Sample IDs: 1926010

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A78792

Included Lab Sample IDs: 1925933

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.8	100	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A78795

Included Lab Sample IDs: 1925932, 1925935

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	99.0	P/P	90 - 110
Fluoride	99.5	99.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A78802

Included Lab Sample IDs: 1925997, 1925998, 1925999, 1926000, 1926001

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	146	143	P/P	60 - 150
Sucralose	148	146	P/P	60 - 150

Reference Method: USGS O-2060-01

Run ID: A78805

Included Lab Sample IDs: 1925997, 1925998, 1925999, 1926000, 1926001

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	113	125	P/P	50 - 150
2,4-D	125	123	P/P	50 - 150
Acetaminophen	113	115	P/P	60 - 150
Acetaminophen	115	112	P/P	60 - 150
Bentazon	69.1	75.7	P/P	50 - 150
Bentazon	75.7	69.1	P/P	50 - 150
Carbamazepine	127	133	P/P	60 - 150
Carbamazepine	133	129	P/P	60 - 150
Diuron	110	118	P/P	60 - 150
Diuron	112	110	P/P	60 - 150
Fenuron	96.2	91.8	P/P	60 - 150
Fenuron	98.9	96.2	P/P	60 - 150
Fluridone	103	107	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A78805

Included Lab Sample IDs: 1925997, 1925998, 1925999, 1926000, 1926001

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluridone	107	106	P/P	60 - 160
Imidacloprid	101	111	P/P	60 - 150
Imidacloprid	111	114	P/P	60 - 150
Linuron	85.8	98.7	P/P	60 - 150
Linuron	92.6	85.8	P/P	60 - 150
MCPP	128	132	P/P	50 - 150
MCPP	132	135	P/P	50 - 150
Primidone	105	107	P/P	60 - 150
Primidone	107	106	P/P	60 - 150
Triclopyr	117	132	P/P	50 - 160
Triclopyr	132	127	P/P	50 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A78818

Included Lab Sample IDs: 1926010

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	102	102	P/P	90 - 110
Cadmium	100	100	P/P	90 - 110
Chromium	97.3	98.5	P/P	90 - 110
Copper	102	103	P/P	90 - 110
Lead	101	101	P/P	90 - 110
Nickel	101	102	P/P	90 - 110
Zinc	103	103	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A78820

Included Lab Sample IDs: 1926009

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A78844

Included Lab Sample IDs: 1925933, 1925936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	99.5	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A78858

Included Lab Sample IDs: 1925936

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.2	97.5	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A78913

Included Lab Sample IDs: 1926010

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
 Run ID: A78913
 Included Lab Sample IDs: 1926010

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	94.7	95.2	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
 Run ID: A78953
 Included Lab Sample IDs: 1926009

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	98.9	97.4	P/P	90 - 110
Cadmium	97.8	97.0	P/P	90 - 110
Chromium	99.7	98.0	P/P	90 - 110
Copper	98.5	95.2	P/P	90 - 110
Lead	99.5	98.6	P/P	90 - 110
Silver	98.8	97.2	P/P	90 - 110
Zinc	99.1	94.6	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
 Run ID: A78954
 Included Lab Sample IDs: 1926009

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Nickel	98.2	95.3	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			Precision	MS
			LCS			SMP	
EPA 180.1 Rev. 2.0	Turbidity					4.32	
EPA 200.7 Rev. 4.4	Iron	107	108	110	109		0.653
	Iron	104	106	107			1.07
EPA 200.8 Rev. 5.4	Arsenic	105	110	104	104		0.291
	Arsenic	98.2	106	107			0.663
	Cadmium	101	102	102	103		1.14
	Cadmium	97.4	88.8	106			17.3
	Chromium	97.9	92.7	97.1	98.0		0.956
	Chromium	96.4	97.8	99.3			1.48
	Copper	100	97.5	95.4	94.9		0.534
	Copper	93.9	93.6	93.1			0.448
	Lead	99.7	103	100	100		0.0946
	Lead	96.5	104	105			0.902
	Nickel	102	99.5	96.7	96.2		0.441
	Nickel	94.3	93.1	92.6			0.510
	Silver	103	101	102	103		0.787
	Silver	96.7	95.9	95.1			0.875
	Zinc	101	100	99.3	99.9		0.580
	Zinc	94.5	101	102			1.42

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 300.0 Rev. 2.1	Chloride	100	106	102	5.88	
	Sulfate	96.6	100	95.7	4.84	
EPA 350.1 Rev. 2.0	Ammonia-N	100	96.3	94.5		1.76
	Ammonia-N	100	97.0	97.4		0.188
	Ammonia-N	98.3				0.528
	Ammonia-N	98.0	96.7	95.7		0.858
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108				1.34
	Kjeldahl Nitrogen	105	99.0	98.5		0.359
	Kjeldahl Nitrogen	104	101	99.1		1.60
EPA 353.2 Rev. 2.0	NO2NO3-N	102	104	104		0.0
	NO2NO3-N	103	102			0.210
EPA 365.1 Rev. 2.0	Total-P	97.7	98.2	96.9		1.28
	Total-P	101	95.7	90.9		5.02
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.7	95.8	97.9		2.17
	O-Phosphate-P	97.8	96.2	97.4		1.15
EPA 8321B	Sucralose	120	77.3	95.6		10.2
SM 2120 B	Color (true)				1.54	
SM 2320 B-97	Total Alkalinity	102			0.457	
	Total Alkalinity	102			0.0252	
SM 2540 C-97	TDS				3.81	
SM 2540 D-97	TSS				4.65	
SM 4500 F-C-97	Fluoride	95.1	96.7	97.9		0.996
	Fluoride	95.9	96.2	97.7		0.960
	Fluoride	95.9	98.3	98.3		0.0
SM 5310 B-00	Organic Carbon	104	103	103		0.0859
	Organic Carbon	103	103	102		0.860
USGS O-2060-01	2,4-D	95.6	96.6	88.7		8.27
	Acetaminophen	120	91.2	86.8		4.43
	Bentazon	43.3	20.2	17.9		11.5
	Carbamazepine	117	90.4	84.6		6.60
	Diuron	93.7	44.2	42.0		2.85
	Fenuron	95.3	65.1	68.6		5.31
	Fluridone	85.0	17.9	13.2		29.7
	Imidacloprid	96.8				4.74
	Linuron	79.2	37.9	35.7		5.90
	MCP	111	101	80.8		22.3
	Primidone	105	91.2	91.6		0.525
	Triclopyr	106	84.8	61.1		32.4

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1925926, 1925927, 1925932, 1925935, 1925938
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1926009, 1926010
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1926009, 1926010
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1925926, 1925927
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1925926, 1925927
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1925928, 1925929, 1925933, 1925936, 1925939, 1925941

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1925928, 1925929, 1925933, 1925936, 1925939, 1925941
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1925928, 1925929, 1925933, 1925936, 1925939, 1925941
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1925928, 1925929, 1925933, 1925936, 1925939, 1925941
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1925930, 1925931, 1925934, 1925937, 1925940, 1925942
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1925997, 1925998, 1925999, 1926000, 1926001
SM 2120 B / E31780	True Color measured at 450 nm	1925926, 1925927
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1925926, 1925927, 1925932, 1925935, 1925938
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1925926, 1925927
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1925926, 1925927, 1925932, 1925935, 1925938
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1925926, 1925927, 1925932, 1925935, 1925938
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1925928, 1925929, 1925933, 1925936, 1925939, 1925941
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1925997, 1925998, 1925999, 1926000, 1926001
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1925997, 1925998, 1925999, 1926000, 1926001

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	08/29/2017			08/29/2017 16:39	DeAsia Armster	1925926, 1925927, 1925932, 1925935, 1925938
EPA 200.7 Rev. 4.4	08/29/2017	08/31/2017	Elliott D. Healy	09/05/2017	Betina Topolski	1926010
	08/29/2017	09/05/2017	Elliott D. Healy	09/06/2017	Betina Topolski	1926009
EPA 200.8 Rev. 5.4	08/29/2017	08/31/2017	Elliott D. Healy	09/06/2017	Nadine Brooks	1926010
	08/29/2017	08/31/2017	Elliott D. Healy	09/13/2017	Nadine Brooks	1926010
	08/29/2017	09/05/2017	Elliott D. Healy	09/16/2017	Robert K Palmer	1926009
	08/29/2017	09/05/2017	Elliott D. Healy	09/17/2017	Robert K Palmer	1926009
EPA 300.0 Rev. 2.1	08/29/2017			09/01/2017	Julia Storbeck	1925926, 1925927
EPA 350.1 Rev. 2.0	08/29/2017			08/31/2017	Sofia Elnemr	1925928, 1925929
	08/29/2017			09/01/2017	Sofia Elnemr	1925939, 1925941
	08/29/2017			09/05/2017	Sofia Elnemr	1925933
	08/29/2017			09/06/2017	Sofia Elnemr	1925936
EPA 351.2 Rev. 2.0	08/29/2017	08/30/2017	Adrian Shelby	08/31/2017	Joseph Suarez	1925928, 1925929
	08/29/2017	08/31/2017	Adrian Shelby	08/31/2017	Joseph Suarez	1925939, 1925941
	08/29/2017	08/31/2017	Adrian Shelby	09/01/2017	Joseph Suarez	1925933, 1925936
EPA 353.2 Rev. 2.0	08/29/2017			08/31/2017	Beverly Y. Sanders	1925928, 1925929, 1925939, 1925941
	08/29/2017			09/07/2017	Beverly Y. Sanders	1925933, 1925936
EPA 365.1 Rev. 2.0	08/29/2017	08/30/2017	Sima Feizi	08/31/2017	Lipi Saha	1925928, 1925929, 1925933, 1925936, 1925939, 1925941
EPA 365.1 Rev. 2.0 dissolved	08/29/2017			08/29/2017 14:05	Megan Treadwell	1925934
	08/29/2017			08/29/2017 14:10	Megan Treadwell	1925930
	08/29/2017			08/29/2017 14:11	Megan Treadwell	1925931
	08/29/2017			08/29/2017 14:17	Megan Treadwell	1925940
	08/29/2017			08/29/2017 14:20	Megan Treadwell	1925937
	08/29/2017			08/29/2017 14:34	Megan Treadwell	1925942
EPA 8321B	08/29/2017	08/31/2017	Hoor Shaik	09/05/2017	Julie Michelle Frank	1925997, 1925998, 1925999
	08/29/2017	08/31/2017	Hoor Shaik	09/06/2017	Julie Michelle Frank	1926000, 1926001
SM 2120 B	08/29/2017			08/29/2017 15:36	Tanya Welborn	1925926
	08/29/2017			08/29/2017 15:37	Tanya Welborn	1925927
SM 2320 B-97	08/29/2017			08/30/2017	Dale L. Simmons	1925926, 1925927, 1925932, 1925935, 1925938
SM 2540 C-97	08/29/2017			08/30/2017	Yijie Li	1925926, 1925927
SM 2540 D-97	08/29/2017			08/30/2017	Yijie Li	1925926, 1925927, 1925932, 1925935, 1925938
SM 4500 F-C-97	08/29/2017			08/30/2017	Dale L. Simmons	1925926, 1925927, 1925938
	08/29/2017			09/05/2017	Dale L. Simmons	1925932, 1925935
SM 5310 B-00	08/29/2017			09/01/2017	Ping Hua	1925928, 1925929, 1925933, 1925936, 1925939, 1925941
USGS O-2060-01	08/29/2017	08/31/2017	Hoor Shaik	09/02/2017	Juyoung Kim	1925997, 1925998, 1925999, 1926000, 1926001