

Chemical Analysis Report

WQAP-2017-04-27-07

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

Event Description: **RUN 15**
Request ID: **RQ-2017-04-24-21**
Customer: **WQAP**
Project ID: **SMP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 24-MAY-2017 14:20

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

Case Narrative

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

Results for the following analytical groups are included in this report: Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: WARES CRK (TIDAL)

Collection Date/Time: 04/26/2017 10:30

Field ID: G2SW0029

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1893631	EPA 180.1 Rev. 2.0	Turbidity	6.1		NTU	P324193	
	SM 2320 B-97	Total Alkalinity	146		mg CaCO3/L	P324857	
	SM 2540 D-97	TSS	8	IA	mg/L	P324594	
	SM 4500 F-C-97	Fluoride	1.0		mg F/L	P324859	
1893632	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P324254	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P324290	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P324320	
	EPA 365.1 Rev. 2.0	Total-P	0.22		mg P/L	P324327	
	SM 5310 B-00	Organic Carbon	7.4		mg C/L	P324235	
1893633	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.099		mg P/L	P324186	

Ref. Method and Comment:

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

Sample Location: WARES CRK (TIDAL)

Collection Date/Time: 04/26/2017 10:30

Field ID: G2SW0029

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1893641	EPA 8321B	Sucralose**	0.49		ug/L	P324163	
	USGS O-2060-01	2,4-D	0.010		ug/L	P324133	
		Diuron	0.0043		ug/L	P324133	
		Fenuron	0.0040	U	ug/L	P324133	
		Imidacloprid	0.0039		ug/L	P324133	MS
		Bentazon	0.0046		ug/L	P324133	
		Linuron	0.0040	U	ug/L	P324133	
		Acetaminophen**	0.0080	U	ug/L	P324133	
		MCP	8.0E-04	U	ug/L	P324133	
		Carbamazepine**	0.0010	I	ug/L	P324133	
		Triclopyr**	0.0040	U	ug/L	P324133	
		Primidone**	0.0040	U	ug/L	P324133	
		Fluridone**	0.25		ug/L	P324133	

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P324193

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P324254

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324290

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P324320

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P324327

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P324186

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

Reference Method: EPA 8321B
Batch ID: P324163

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2320 B-97
Batch ID: P324857

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

Reference Method: SM 2540 D-97
Batch ID: P324594

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P324859

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P324235

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

Quality Assurance Report Method Blank Results

Reference Method: USGS O-2060-01
 Batch ID: P324133

Component	Result	Code	Units
2,4-D	8.0E-04	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	0.0040	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	8.0E-04	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	8.0E-04	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 350.1 Rev. 2.0
 Batch ID: P324254

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P324290

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P324320

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P324327

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P324186

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

Reference Method: EPA 8321B
 Batch ID: P324163

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	73.6		P	40 - 140

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
 Batch ID: P324857

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

Reference Method: SM 4500 F-C-97
 Batch ID: P324859

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.9		P	92 - 103

Reference Method: SM 5310 B-00
 Batch ID: P324235

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	101		P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P324133

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	76.3		P	40 - 140
Acetaminophen	105		P	40 - 140
Bentazon	69.5		P	40 - 140
Carbamazepine	121		P	40 - 140
Diuron	127		P	40 - 140
Fenuron	127		P	40 - 140
Fluridone	117		P	40 - 140
Imidacloprid	127		P	40 - 160
Linuron	127		P	40 - 140
MCP	73.2		P	40 - 140
Primidone	120		P	40 - 140
Triclopyr	71.7		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P324254

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893480	Ammonia-N	97.1	94.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P324290

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893595	Kjeldahl Nitrogen	101	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P324320

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893715	NO2NO3-N	106	108	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P324327

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893595	Total-P	98.9	96.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P324186

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893599	O-Phosphate-P	94.8	95.7	P/P	90 - 110

Reference Method: EPA 8321B
 Batch ID: P324163

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893377	Sucralose	109	114	P/P	40 - 140

Reference Method: SM 4500 F-C-97
 Batch ID: P324859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893587	Fluoride	97.2	97.8	P/P	91 - 105

Reference Method: SM 5310 B-00
 Batch ID: P324235

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1892395	Organic Carbon	96.8	96.6	P/P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P324133

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893010	2,4-D	73.2	76.3	P/P	40 - 140
1893010	Acetaminophen	111	96.2	P/P	40 - 140
1893010	Bentazon	75.2	80.4	P/P	40 - 140
1893010	Carbamazepine	101	108	P/P	40 - 140
1893010	Diuron	99.1	103	P/P	40 - 140
1893010	Fenuron	76.0	78.2	P/P	40 - 140
1893010	Fluridone	91.5	92.8	P/P	40 - 140
1893010	Imidacloprid	180	199	F/F	40 - 160
1893010	Linuron	104	111	P/P	40 - 140
1893010	MCP	64.7	70.7	P/P	40 - 140
1893010	Primidone	95.7	109	P/P	40 - 140
1893010	Triclopyr	65.1	69.9	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P324193

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P324193

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893584	Turbidity	16.3	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P324254

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893480	Ammonia-N	2.13	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324290

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893595	Kjeldahl Nitrogen	1.11	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P324320

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893715	NO2NO3-N	1.41	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P324327

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893595	Total-P	2.18	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P324186

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893599	O-Phosphate-P	0.906	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P324163

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893377	Sucralose	4.12	Spike	P	0 - 30

Reference Method: SM 2320 B-97
Batch ID: P324857

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893587	Total Alkalinity	0.618	Sample	P	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
 Batch ID: P324859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893587	Fluoride	0.483	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
 Batch ID: P324235

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1892395	Organic Carbon	0.127	Spike	P	0 - 20

Reference Method: USGS O-2060-01
 Batch ID: P324133

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893010	2,4-D	4.06	Spike	P	0 - 30
1893010	Acetaminophen	13.8	Spike	P	0 - 30
1893010	Bentazon	6.68	Spike	P	0 - 30
1893010	Carbamazepine	6.76	Spike	P	0 - 30
1893010	Diuron	4.11	Spike	P	0 - 30
1893010	Fenuron	2.85	Spike	P	0 - 30
1893010	Fluridone	1.39	Spike	P	0 - 30
1893010	Imidacloprid	10.1	Spike	P	0 - 30
1893010	Linuron	6.71	Spike	P	0 - 30
1893010	MCPP	8.86	Spike	P	0 - 30
1893010	Primidone	12.6	Spike	P	0 - 30
1893010	Triclopyr	7.05	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: 1893641
 Field Sample ID: G2SW0029

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	104	P	40 - 150
USGS O-2060-01	2,4-D-d3	76.7	P	30 - 150
USGS O-2060-01	Acetaminophen-d4	85.9	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	121	P	30 - 160
USGS O-2060-01	Diuron-d6	108	P	30 - 150
USGS O-2060-01	Primidone-d5	116	P	30 - 150

Quality Assurance Report Calibration Verification

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A76048

Included Lab Sample IDs: 1893633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.9	97.7	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A76055

Included Lab Sample IDs: 1893631

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

Reference Method: SM 5310 B-00

Run ID: A76068

Included Lab Sample IDs: 1893632

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A76070

Included Lab Sample IDs: 1893632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	91.0	90.7	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A76074

Included Lab Sample IDs: 1893641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	122	122	P/P	60 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A76094

Included Lab Sample IDs: 1893632

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A76107

Included Lab Sample IDs: 1893632

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A76141

Included Lab Sample IDs: 1893632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	106	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97
 Run ID: A76258
 Included Lab Sample IDs: 1893631

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

Reference Method: SM 4500 F-C-97
 Run ID: A76258
 Included Lab Sample IDs: 1893631

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	97.0	99.0	P/P	90 - 110

Reference Method: USGS O-2060-01
 Run ID: A76477
 Included Lab Sample IDs: 1893641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.0	92.4	P/P	50 - 150
Acetaminophen	106	108	P/P	60 - 150
Bentazon	88.8	86.8	P/P	50 - 150
Carbamazepine	108	93.2	P/P	60 - 150
Diuron	122	118	P/P	60 - 150
Fenuron	107	107	P/P	60 - 150
Imidacloprid	104	102	P/P	60 - 150
Linuron	111	103	P/P	60 - 150
MCP	97.2	90.8	P/P	50 - 150
Primidone	96.8	91.6	P/P	60 - 150
Triclopyr	94.8	89.6	P/P	50 - 150

Reference Method: USGS O-2060-01
 Run ID: A76569
 Included Lab Sample IDs: 1893641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluridone	110	97.2	P/P	60 - 150

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity				16.3	
EPA 350.1 Rev. 2.0	Ammonia-N	96.0	97.1 94.7			2.13
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	101 102			1.11
EPA 353.2 Rev. 2.0	NO2NO3-N	106	106 108			1.41
EPA 365.1 Rev. 2.0	Total-P	98.0	98.9 96.7			2.18
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	94.8 95.7			0.906
EPA 8321B	Sucralose	73.6	109 114			4.12
SM 2320 B-97	Total Alkalinity	103			0.618	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
SM 4500 F-C-97	Fluoride	94.9	97.2	97.8			0.483
SM 5310 B-00	Organic Carbon	101	96.8	96.6			0.127
USGS O-2060-01	2,4-D	76.3	73.2	76.3			4.06
	Acetaminophen	105	111	96.2			13.8
	Bentazon	69.5	75.2	80.4			6.68
	Carbamazepine	121	101	108			6.76
	Diuron	127	99.1	103			4.11
	Fenuron	127	76.0	78.2			2.85
	Fluridone	117	91.5	92.8			1.39
	Imidacloprid	127	180	199			10.1
	Linuron	127	104	111			6.71
	MCP	73.2	64.7	70.7			8.86
	Primidone	120	95.7	109			12.6
	Triclopyr	71.7	65.1	69.9			7.05

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1893631
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1893632
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1893632
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1893632
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1893632
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1893633
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1893641
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1893631
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1893631
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1893631
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1893632
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1893641
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1893641

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	04/27/2017			04/27/2017 16:59	Sima Feizi	1893631
EPA 350.1 Rev. 2.0	04/27/2017			04/27/2017	Julie Michelle Frank	1893632
EPA 351.2 Rev. 2.0	04/27/2017	05/01/2017	Adrian Shelby	05/03/2017	Joseph Suarez	1893632
EPA 353.2 Rev. 2.0	04/27/2017			05/01/2017	Beverly Y. Sanders	1893632
EPA 365.1 Rev. 2.0	04/27/2017	05/01/2017	Vijayalakshmi Reddy	05/02/2017	Christopher Armour	1893632
EPA 365.1 Rev. 2.0 dissolved	04/27/2017			04/27/2017 17:18	Anthony C. Onicha	1893633
EPA 8321B	04/27/2017	04/29/2017	Mohammad Ghaffari	04/29/2017	Mohammad Ghaffari	1893641
SM 2320 B-97	04/27/2017			05/09/2017	Dale L. Simmons	1893631
SM 2540 D-97	04/27/2017			05/01/2017	Sima Feizi	1893631
SM 4500 F-C-97	04/27/2017			05/08/2017	Dale L. Simmons	1893631
SM 5310 B-00	04/27/2017			04/28/2017	Julie Michelle Frank	1893632
USGS O-2060-01	04/27/2017	04/29/2017	Fe-Val Siddell	05/15/2017	Juyoung Kim	1893641
	04/27/2017	04/29/2017	Fe-Val Siddell	05/22/2017	Juyoung Kim	1893641