

Chemical Analysis Report

WQAP-2017-10-25-01

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

Event Description: **SMP: Upper Lemon Bay**

Request ID: **RQ-2017-10-23-03**

Customer: **WQAP**

Project ID: **SMP**

Send Reports to:
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 22-NOV-2017 11:24



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: Lemon Bay near Indian Mound Park

Collection Date/Time: 10/24/2017 11:25

Field ID: G3SD102417-1

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1939832	EPA 180.1 Rev. 2.0	Turbidity	4.3	A	NTU	P334059	
	SM 2320 B-97	Total Alkalinity	135	A	mg CaCO3/L	P334235	
	SM 2540 D-97	TSS	9	IA	mg/L	P334659	
	SM 4500 F-C-97	Fluoride	1.1		mg F/L	P334459	
1939833	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P334267	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.81		mg N/L	P334535	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P334186	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P334200	
	SM 5310 B-00	Organic Carbon	6.2		mg C/L	P334511	
1939834	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.031		mg P/L	P334053	

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: Whidden Creek - Between Two Mangroves

Collection Date/Time: 10/24/2017 10:05

Field ID: G2SD102417-2

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1939839	USGS O-2060-01	Bentazon	0.0028	IQ	ug/L	P335525	
		MCPP	0.0020	UQ	ug/L	P335525	
1939840	EPA 8321B	Sucralose**	0.028	I	ug/L	P334158	
1939841	USGS O-2060-01	Diuron	0.011		ug/L	P334159	
		Fenuron	0.0080	U	ug/L	P334159	
		Imidacloprid	0.0075		ug/L	P334159	MS
		Linuron	0.0040	U	ug/L	P334159	
		Acetaminophen**	0.0080	U	ug/L	P334159	
		Carbamazepine**	4.0E-04	UQ	ug/L	P335525	
		Primidone**	0.0040	U	ug/L	P334159	
		Fluridone**	9.9E-04	I	ug/L	P334159	

Ref. Method and Comment:

USGS O-2060-01: Sample required re-extraction beyond normal holding time due to reagent performance inconsistencies.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P334059

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P334267

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: P334535

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P334186

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P334200

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P334053

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

Reference Method: EPA 8321B
Batch ID: P334158

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2320 B-97
Batch ID: P334235

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

Reference Method: SM 2540 D-97
Batch ID: P334659

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P334459

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P334511

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: P334159

Component	Result	Code	Units
Acetaminophen	0.0080	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
Primidone	0.0040	U	ug/L

Reference Method: USGS O-2060-01
Batch ID: P335525

Component	Result	Code	Units
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
MCP	0.0020	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334267

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	109		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334535

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P334186

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P334200

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P334053

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	95.2		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P334158

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	85.0		P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P334235

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

Reference Method: SM 4500 F-C-97
Batch ID: P334459

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P334511

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.7		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P334159

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetaminophen	126		P	30 - 150
Diuron	105		P	40 - 150
Fenuron	56.8		P	40 - 150
Fluridone	109		P	40 - 150
Imidacloprid	108		P	40 - 160
Linuron	108		P	40 - 150
Primidone	105		P	40 - 150

Reference Method: USGS O-2060-01
Batch ID: P335525

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bentazon	87.8		P	30 - 150
Carbamazepine	108		P	40 - 150
MCP	68.4		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334267

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939614	Ammonia-N	109	106	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334535

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940177	Kjeldahl Nitrogen	95.9	94.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P334186

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939619	NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P334200

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939833	Total-P	98.6	98.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P334053

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939834	O-Phosphate-P	92.1	94.3	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P334158

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939692	Sucralose	64.6	64.6	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P334459

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939384	Fluoride	98.3	98.3	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P334511

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939380	Organic Carbon	90.2	89.2	P/P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P334159

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1940015	Acetaminophen	139	120	P/P	30 - 150
1940015	Diuron	81.3	81.3	P/P	40 - 150
1940015	Fenuron	97.0	115	P/P	40 - 150
1940015	Fluridone	98.3	97.1	P/P	40 - 150
1940015	Imidacloprid	240	241	F/F	40 - 160
1940015	Linuron	115	113	P/P	40 - 150
1940015	Primidone	98.8	107	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: USGS O-2060-01
Batch ID: P335525

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1939691	Bentazon	98.4	107	P/P	30 - 150
1939691	Carbamazepine	102	105	P/P	40 - 150
1939691	MCCP	78.3	78.0	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P334059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939832	Turbidity	0.466	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P334267

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939614	Ammonia-N	2.11	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P334535

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940177	Kjeldahl Nitrogen	0.961	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P334186

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939619	NO2NO3-N	0.471	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P334200

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939833	Total-P	0.366	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P334053

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939834	O-Phosphate-P	1.77	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P334158

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939692	Sucralose	0.0	Spike	P	0 - 30

Reference Method: SM 2320 B-97
Batch ID: P334235

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939832	Total Alkalinity	0.179	Sample	P	0 - 4.8

Reference Method: SM 4500 F-C-97
Batch ID: P334459

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939384	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P334511

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939380	Organic Carbon	0.748	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P334159

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1940015	Acetaminophen	14.0	Spike	P	0 - 30
1940015	Diuron	0.0246	Spike	P	0 - 30
1940015	Fenuron	17.2	Spike	P	0 - 30
1940015	Fluridone	1.21	Spike	P	0 - 30
1940015	Imidacloprid	0.166	Spike	P	0 - 30
1940015	Linuron	2.40	Spike	P	0 - 30
1940015	Primidone	7.93	Spike	P	0 - 30

Reference Method: USGS O-2060-01
Batch ID: P335525

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1939691	Bentazon	7.80	Spike	P	0 - 30
1939691	Carbamazepine	3.33	Spike	P	0 - 30
1939691	MCP	0.482	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

Quality Assurance Report Surrogates

Lab Sample ID: 1939839

Field Sample ID: G2SD102417-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
USGS O-2060-01	2,4-D-d3	70.5	P	30 - 160

Lab Sample ID: 1939840

Field Sample ID: G2SD102417-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	56.8	P	40 - 160

Lab Sample ID: 1939841

Field Sample ID: G2SD102417-2

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
USGS O-2060-01	Acetaminophen-d4	78.6	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	102	P	30 - 160
USGS O-2060-01	Diuron-d6	92.4	P	30 - 160
USGS O-2060-01	Primidone-d5	113	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A79806

Included Lab Sample IDs: 1939834

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	95.2	96.2	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A79808

Included Lab Sample IDs: 1939832

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A79849

Included Lab Sample IDs: 1939833

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	98.5	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A79869

Included Lab Sample IDs: 1939832

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A79878

Included Lab Sample IDs: 1939833

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.8	98.9	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A79881

Included Lab Sample IDs: 1939833

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	97.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A79945

Included Lab Sample IDs: 1939840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	97.1	98.8	P/P	60 - 150

Reference Method: SM 4500 F-C-97

Run ID: A79949

Included Lab Sample IDs: 1939832

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

Reference Method: SM 5310 B-00

Run ID: A79974

Included Lab Sample IDs: 1939833

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.4	93.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A80046

Included Lab Sample IDs: 1939833

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	104	99.4	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A80386

Included Lab Sample IDs: 1939839

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	128	119	P/P	50 - 150
Carbamazepine	123	123	P/P	60 - 150
MCP	106	107	P/P	50 - 150

Reference Method: USGS O-2060-01

Run ID: A80401

Included Lab Sample IDs: 1939841

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

Reference Method: USGS O-2060-01
 Run ID: A80401
 Included Lab Sample IDs: 1939841

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	122	122	P/P	60 - 150
Diuron	115	113	P/P	60 - 150
Fenuron	115	115	P/P	60 - 150
Fluridone	125	125	P/P	60 - 160
Imidacloprid	113	108	P/P	60 - 150
Linuron	121	119	P/P	60 - 150
Primidone	108	114	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				0.466	
EPA 350.1 Rev. 2.0	Ammonia-N	109	109 106			2.11
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.5	95.9 94.8			0.961
EPA 353.2 Rev. 2.0	NO2NO3-N	104	103 103			0.471
EPA 365.1 Rev. 2.0	Total-P	103	98.6 98.2			0.366
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	95.2	92.1 94.3			1.77
EPA 8321B	Sucralose	85.0	64.6 64.6			0.0
SM 2320 B-97	Total Alkalinity	103			0.179	
SM 4500 F-C-97	Fluoride	98.2	98.3 98.3			0.0
SM 5310 B-00	Organic Carbon	95.7	90.2 89.2			0.748
USGS O-2060-01	Acetaminophen	126	139 120			14.0
	Bentazon	87.8	98.4 107			7.80
	Carbamazepine	108	102 105			3.33
	Diuron	105	81.3 81.3			0.0246
	Fenuron	56.8	97.0 115			17.2
	Fluridone	109	98.3 97.1			1.21
	Imidacloprid	108	240 241			0.166
	Linuron	108	115 113			2.40
	MCPP	68.4	78.3 78.0			0.482
	Primidone	105	98.8 107			7.93

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1939832
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1939833
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1939833
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1939833

Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1939833
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1939834
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1939840
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1939832
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1939832
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1939832
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1939833
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1939839
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1939841

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	10/25/2017			10/25/2017 16:57	DeAsia Armster	1939832
EPA 350.1 Rev. 2.0	10/25/2017			10/27/2017	Sofia Elnemr	1939833
EPA 351.2 Rev. 2.0	10/25/2017	11/02/2017	Adrian Shelby	11/03/2017	Joseph Suarez	1939833
EPA 353.2 Rev. 2.0	10/25/2017			10/27/2017	Beverly Y. Sanders	1939833
EPA 365.1 Rev. 2.0	10/25/2017	10/27/2017	Sima Feizi	10/30/2017	Lipi Saha	1939833
EPA 365.1 Rev. 2.0 dissolved	10/25/2017			10/25/2017 15:06	Megan Treadwell	1939834
EPA 8321B	10/25/2017	10/30/2017	Juyoung Kim	10/30/2017	Juyoung Kim	1939840
SM 2320 B-97	10/25/2017			10/28/2017	Dale L. Simmons	1939832
SM 2540 D-97	10/25/2017			10/27/2017	Yijie Li	1939832
SM 4500 F-C-97	10/25/2017			10/31/2017	Dale L. Simmons	1939832
SM 5310 B-00	10/25/2017			11/01/2017	Ping Hua	1939833
USGS O-2060-01	10/25/2017	10/30/2017	Hoor Shaik	11/02/2017	Julie Michelle Frank	1939841
	10/25/2017	11/16/2017	Hoor Shaik	11/20/2017	Julie Michelle Frank	1939839