

Chemical Analysis Report

TLH-ROC-2018-03-14-01

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

Event Description: **kit B-b/t/m (WBID 3310A)**

Request ID: **RQ-2018-02-12-47**

Customer: **TLH-ROC**

Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 05-APR-2018 16:32



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: AUCILLA RIVER @ MOUTH

Collection Date/Time: 03/14/2018 13:50

Field ID: G1TLHR0091

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1974883	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P341555	
	SM 2320 B-97	Total Alkalinity	142		mg CaCO3/L	P342151	
	SM 2540 D-97	TSS	4	IQ	mg/L	P342633	
	SM 4500 F-C-97	Fluoride	0.82		mg F/L	P342288	
1974884	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P342063	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.55		mg N/L	P341807	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	I	mg N/L	P341697	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P341688	
	SM 5310 B-00	Organic Carbon	7.1		mg C/L	P342187	
1974885	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P341650	
1974889	EPA 8321B	2,4-D	0.0045	I	ug/L	P341440	
		Sucralose**	0.038	I	ug/L	P341576	
		Bentazon	8.0E-04	U	ug/L	P341440	
		MCP	0.0020	UJ	ug/L	P341440	MS
		Triclopyr**	0.0040	U	ug/L	P341440	
		Imidacloprid	0.0020	U	ug/L	P341440	
		Diuron	0.0020	U	ug/L	P341440	
		Pyraclostrobin**	0.0020	U	ug/L	P341440	
		Primidone**	0.0040	U	ug/L	P341440	
		Linuron	0.0040	U	ug/L	P341440	
		Acetaminophen**	0.0080	U	ug/L	P341440	
		Fenuron	0.0080	U	ug/L	P341440	
		Imazapyr**	0.0040	U	ug/L	P341440	
		Carbamazepine**	4.0E-04	UJ	ug/L	P341440	RPD
		Fluridone**	8.0E-04	U	ug/L	P341440	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample reanalyzed out of holding time because of analytical difficulties.

EPA 8321B: Refer to the narrative for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P341555

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P342063

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: P341807

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P341697

Component	Result	Code	Units
NO ₂ NO ₃ -N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P341688

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P341650

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

Reference Method: EPA 8321B
Batch ID: P341440

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	8.0E-04	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P341576

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2320 B-97
Batch ID: P342151

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

Quality Assurance Report Method Blank Results

Reference Method: SM 2540 D-97
 Batch ID: P342633

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
 Batch ID: P342288

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
 Batch ID: P342187

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P342063

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P341807

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P341697

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P341688

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: P341650

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

Reference Method: EPA 8321B
 Batch ID: P341440

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

Reference Method: EPA 8321B
 Batch ID: P341440

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	71.7		P	40 - 150
Acetaminophen	110		P	30 - 150
Bentazon	77.3		P	30 - 150
Carbamazepine	97.3		P	40 - 150
Diuron	66.7		P	40 - 150
Fenuron	99.8		P	40 - 150
Fluridone	60.4		P	40 - 150
Imazapyr	67.2		P	40 - 150
Imidacloprid	97.2		P	40 - 160
Linuron	71.7		P	40 - 150
MCP	63.3		P	40 - 150
Primidone	103		P	40 - 150
Pyraclostrobin	62.7		P	40 - 150
Triclopyr	67.1		P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P341576

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	108		P	40 - 150

Reference Method: SM 2320 B-97
 Batch ID: P342151

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	105		P	98 - 107

Reference Method: SM 4500 F-C-97
 Batch ID: P342288

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	91 - 105

Reference Method: SM 5310 B-00
 Batch ID: P342187

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P342063

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1974555	Ammonia-N	96.4	95.9	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P341807

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1974611	Kjeldahl Nitrogen	95.2	93.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P341697

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1974608	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P341688

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1974619	Total-P	98.9	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P341650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1974951	O-Phosphate-P	98.4	99.1	P/P	90 - 110

Reference Method: EPA 8321B
 Batch ID: P341440

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1974889	2,4-D	52.5	49.4	P/P	40 - 150
1974889	Acetaminophen	136	113	P/P	30 - 150
1974889	Bentazon	31.8	30.5	P/P	30 - 150
1974889	Carbamazepine	95.6	69.0	P/P	40 - 150
1974889	Diuron	65.1	57.5	P/P	40 - 150
1974889	Fenuron	93.6	76.9	P/P	40 - 150
1974889	Fluridone	57.7	57.9	P/P	40 - 150
1974889	Imazapyr	62.5	57.5	P/P	40 - 150
1974889	Imidacloprid	152	118	P/P	40 - 160
1974889	Linuron	85.7	72.0	P/P	40 - 150
1974889	MCP	37.0	35.0	F/F	40 - 150
1974889	Primidone	110	93.0	P/P	40 - 150
1974889	Pyraclostrobin	76.6	67.0	P/P	40 - 150
1974889	Triclopyr	40.4	41.3	P/P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P341576

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1974770	Sucralose	112	96.1	P/P	40 - 150

Reference Method: SM 4500 F-C-97
 Batch ID: P342288

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1975351	Fluoride	93.9	94.4	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
Batch ID: P342187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1974884	Organic Carbon	98.7	97.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P341555

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1974891	Turbidity	0.105	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P342063

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1974555	Ammonia-N	0.395	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P341807

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1974611	Kjeldahl Nitrogen	1.39	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P341697

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1974608	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P341688

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1974619	Total-P	0.540	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P341650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1974951	O-Phosphate-P	0.621	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P341440

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1974889	2,4-D	5.44	Spike	P	0 - 30
1974889	Acetaminophen	18.9	Spike	P	0 - 30
1974889	Bentazon	3.92	Spike	P	0 - 30
1974889	Carbamazepine	32.4	Spike	F	0 - 30
1974889	Diuron	12.4	Spike	P	0 - 30
1974889	Fenuron	19.5	Spike	P	0 - 30
1974889	Fluridone	0.353	Spike	P	0 - 30
1974889	Imazapyr	8.29	Spike	P	0 - 30
1974889	Imidacloprid	25.3	Spike	P	0 - 30
1974889	Linuron	17.4	Spike	P	0 - 30
1974889	MCP	5.56	Spike	P	0 - 30
1974889	Primidone	17.1	Spike	P	0 - 30
1974889	Pyraclostrobin	13.3	Spike	P	0 - 30
1974889	Triclopyr	2.36	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P341576

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1974770	Sucralose	14.7	Spike	P	0 - 30

Reference Method: SM 2320 B-97
Batch ID: P342151

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1975959	Total Alkalinity	0.163	Sample	P	0 - 1.6

Reference Method: SM 4500 F-C-97
Batch ID: P342288

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1975351	Fluoride	0.474	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P342187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1974884	Organic Carbon	0.646	Spike	P	0 - 20

* 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: 1974889
 Field Sample ID: G1TLHR0091

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	53.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	84.7	P	30 - 160
EPA 8321B	Diuron-d6	66.9	P	30 - 160
EPA 8321B	Primidone-d5	93.4	P	30 - 160
EPA 8321B	Sucralose-d6	75.7	P	40 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
 Run ID: A82609
 Included Lab Sample IDs: 1974883

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Run ID: A82644
 Included Lab Sample IDs: 1974885

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

Reference Method: EPA 353.2 Rev. 2.0
 Run ID: A82663
 Included Lab Sample IDs: 1974884

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

Reference Method: EPA 8321B
 Run ID: A82710
 Included Lab Sample IDs: 1974889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	90.7	85.5	P/P	60 - 150

Reference Method: EPA 8321B
 Run ID: A82734
 Included Lab Sample IDs: 1974889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.1	102	P/P	50 - 150
Acetaminophen	110	112	P/P	60 - 150
Bentazon	116	136	P/P	50 - 150
Carbamazepine	109	137	P/P	60 - 150
Diuron	113	115	P/P	60 - 150
Fenuron	107	111	P/P	60 - 150
Fluridone	121	120	P/P	60 - 160
Imazapyr	104	91.5	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A82734
Included Lab Sample IDs: 1974889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imidacloprid	109	113	P/P	60 - 150
Linuron	123	105	P/P	60 - 150
MCPP	101	102	P/P	50 - 150
Primidone	109	98.1	P/P	60 - 150
Pyraclostrobin	115	118	P/P	60 - 150
Triclopyr	106	96.4	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A82735
Included Lab Sample IDs: 1974884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.8	97.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A82769
Included Lab Sample IDs: 1974884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.1	99.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A82797
Included Lab Sample IDs: 1974884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	98.4	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A82826
Included Lab Sample IDs: 1974883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.8	99.2	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A82844
Included Lab Sample IDs: 1974884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.4	96.4	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A82882
Included Lab Sample IDs: 1974883

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

Quality Assurance Report Calibration Verification

* 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	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					0.105	
EPA 350.1 Rev. 2.0	Ammonia-N	91.0	96.4	95.9			0.395
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	95.2	93.6			1.39
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	102	102			0.0
EPA 365.1 Rev. 2.0	Total-P	103	98.9	99.5			0.540
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.0	98.4	99.1			0.621
EPA 8321B	2,4-D	71.7	52.5	49.4			5.44
	Acetaminophen	110	136	113			18.9
	Bentazon	77.3	31.8	30.5			3.92
	Carbamazepine	97.3	95.6	69.0			32.4
	Diuron	66.7	65.1	57.5			12.4
	Fenuron	99.8	93.6	76.9			19.5
	Fluridone	60.4	57.7	57.9			0.353
	Imazapyr	67.2	62.5	57.5			8.29
	Imidacloprid	97.2	152	118			25.3
	Linuron	71.7	85.7	72.0			17.4
	MCPP	63.3	37.0	35.0			5.56
	Primidone	103	110	93.0			17.1
	Pyraclostrobin	62.7	76.6	67.0			13.3
	Sucralose	108	112	96.1			14.7
	Triclopyr	67.1	40.4	41.3			2.36
SM 2320 B-97	Total Alkalinity	105				0.163	
SM 4500 F-C-97	Fluoride	98.2	93.9	94.4			0.474
SM 5310 B-00	Organic Carbon	99.4	98.7	97.9			0.646

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1974883
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1974884
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1974884
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1974884
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1974884
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1974885
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	1974889
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1974889
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1974883
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1974883
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1974883
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1974884

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	03/14/2018			03/14/2018 16:12	DeAsia Armster	1974883
EPA 350.1 Rev. 2.0	03/14/2018			03/22/2018	Ping Hua	1974884
EPA 351.2 Rev. 2.0	03/14/2018	03/20/2018	Adrian Shelby	03/21/2018	Joseph Suarez	1974884
EPA 353.2 Rev. 2.0	03/14/2018			03/16/2018	Beverly Y. Sanders	1974884
EPA 365.1 Rev. 2.0	03/14/2018	03/16/2018	Adrian Shelby	03/20/2018	Lipi Saha	1974884
EPA 365.1 Rev. 2.0 dissolved	03/14/2018			03/15/2018 20:01	Julia Storbeck	1974885
EPA 8321B	03/14/2018	03/15/2018	Hoor Shaik	03/16/2018	Julie Michelle Frank	1974889
	03/14/2018	03/15/2018	Hoor Shaik	03/17/2018	Julie Michelle Frank	1974889
	03/14/2018	03/15/2018	Julie Michelle Frank	03/17/2018	Juyoung Kim	1974889
SM 2320 B-97	03/14/2018			03/24/2018	Dale L. Simmons	1974883
SM 2540 D-97	03/14/2018			03/28/2018	Yijie Li	1974883
SM 4500 F-C-97	03/14/2018			03/26/2018	Dale L. Simmons	1974883
SM 5310 B-00	03/14/2018			03/24/2018	Julia Storbeck	1974884