

Chemical Analysis Report

CEN-DIST-2019-02-22-01

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

Event Description: **Minnie / Silver / Chain / Gleason**

Request ID: **RQ-2019-02-18-45**

Customer: **CEN-DIST**

Project ID: **SMP**

Send Reports to:

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Date Certified: 13-MAR-2019 15:13



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 by the Florida Department of Health Environmental Laboratory Certification Program 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: THREE ISLAND LAKE @ CENTER OF SOUTH LOBE

Collection Date/Time: 02/21/2019 10:55

Field ID: G2CE0085

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2064797	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P359365	
	EPA 300.0 Rev. 2.1	Chloride	20		mg Cl/L	P360100	
		Sulfate	7.5		mg SO4/L	P360102	
		Color (true)	180		PCU	P359401	
	SM 2320 B-97	Total Alkalinity	5.6		mg CaCO3/L	P359609	RPD
	SM 2540 C-97	TDS	97		mg/L	P359868	
	SM 2540 D-97	TSS	2	I	mg/L	P359831	
	SM 4500 F-C-97	Fluoride	0.037	I	mg F/L	P359611	
2064800	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P359559	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P359525	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P359585	
	EPA 365.1 Rev. 2.0	Total-P	0.030		mg P/L	P359501	
	SM 5310 B-00	Organic Carbon	20		mg C/L	P359746	
2064803	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P359396	

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.

Sample Location: LAKE GLEASON @ CENTER

Collection Date/Time: 02/21/2019 11:42

Field ID: G2CE0114

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2064798	EPA 180.1 Rev. 2.0	Turbidity	0.75		NTU	P359366	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P360100	
		Sulfate	2.6		mg SO4/L	P360102	
	SM 2120 B	Color (true)	34	A	PCU	P359401	
	SM 2320 B-97	Total Alkalinity	49		mg CaCO3/L	P359609	RPD
	SM 2540 C-97	TDS	103		mg/L	P359868	
	SM 2540 D-97	TSS	2	U	mg/L	P359831	
	SM 4500 F-C-97	Fluoride	0.077	I	mg F/L	P359611	
2064801	EPA 350.1 Rev. 2.0	Ammonia-N	0.18		mg N/L	P359559	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P359603	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.043		mg N/L	P359585	
	EPA 365.1 Rev. 2.0	Total-P	0.014		mg P/L	P359501	
	SM 5310 B-00	Organic Carbon	8.9		mg C/L	P359746	
2064804	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P359396	

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: LAKE MINNIE @ CENTER

Collection Date/Time: 02/21/2019 12:37

Field ID: G2CE0108

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2064794	EPA 180.1 Rev. 2.0	Turbidity	4.8		NTU	P359365	
	EPA 300.0 Rev. 2.1	Chloride	52		mg Cl/L	P360100	
		Sulfate	3.1		mg SO4/L	P360102	
	SM 2120 B	Color (true)	260		PCU	P359401	
	SM 2320 B-97	Total Alkalinity	37		mg CaCO3/L	P359609	RPD
	SM 2540 C-97	TDS	188	A	mg/L	P359868	
	SM 2540 D-97	TSS	4	IA	mg/L	P359831	
2064795	SM 4500 F-C-97	Fluoride	0.065	I	mg F/L	P359611	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P359559	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P359525	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P359585	
	EPA 365.1 Rev. 2.0	Total-P	0.061		mg P/L	P359501	
2064796	SM 5310 B-00	Organic Carbon	25		mg C/L	P359746	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P359396	
2064812	EPA 8321B	2,4-D	0.017		ug/L	P359229	
		Acesulfame K**	0.10	UJ	ug/L	P359489	CCV
		AMPA**	0.22	I	ug/L	P359489	
		Sucralose**	0.26		ug/L	P359489	
		Endothall**	0.25	U	ug/L	P359489	
		Acetaminophen**	0.0080	U	ug/L	P359229	
		Glufosinate**	0.10	U	ug/L	P359489	
		Glyphosate**	0.34	I	ug/L	P359489	
		Bentazon	0.020		ug/L	P359229	
		Carbamazepine**	8.0E-04	U	ug/L	P359229	
		Diuron	0.0020	U	ug/L	P359229	
		Fenuron	0.016	U	ug/L	P359229	
		Fluridone**	0.0038		ug/L	P359229	
		Imazapyr**	0.054		ug/L	P359229	
		Hydrocodone**	0.0020	U	ug/L	P359229	
		Ibuprofen**	0.020	U	ug/L	P359229	
		Imidacloprid	0.0081		ug/L	P359229	MS
		Linuron	0.0040	U	ug/L	P359229	
		MCP	0.0020	U	ug/L	P359229	
		Naproxen**	0.0080	U	ug/L	P359229	
		Primidone**	0.0040	U	ug/L	P359229	
		Pyraclostrobin**	0.0020	U	ug/L	P359229	
		Triclopyr**	0.0040	U	ug/L	P359229	

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.

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

Sample Location: SILVER LAKE @ CENTER

Collection Date/Time: 02/21/2019 13:17

Field ID: G2CE0122

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2064799	EPA 180.1 Rev. 2.0	Turbidity	0.70		NTU	P359366	
	EPA 300.0 Rev. 2.1	Chloride	53		mg Cl/L	P360100	
		Sulfate	25		mg SO4/L	P360102	
	SM 2120 B	Color (true)	7.1		PCU	P359401	
	SM 2320 B-97	Total Alkalinity	8.8		mg CaCO3/L	P359609	RPD
	SM 2540 C-97	TDS	144		mg/L	P359868	
	SM 2540 D-97	TSS	2	U	mg/L	P359831	
	SM 4500 F-C-97	Fluoride	0.042	I	mg F/L	P359611	
2064802	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P359559	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P359604	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P359585	
	EPA 365.1 Rev. 2.0	Total-P	0.007		mg P/L	P359502	
	SM 5310 B-00	Organic Carbon	4.9		mg C/L	P359746	
2064805	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P359396	

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.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359365

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359366

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360100

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360102

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359559

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359525

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359603

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359604

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359585

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359501

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359502

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359396

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

Reference Method: EPA 8321B
Batch ID: P359229

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	8.0E-04	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	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
Naproxen	0.0080	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: P359489

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P359401

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P359609

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

Reference Method: SM 2540 C-97
Batch ID: P359868

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P359831

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P359611

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P359746

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360100

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360102

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359559

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359525

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: P359603

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.5		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359604

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359585

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359501

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359502

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P359396

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

Reference Method: EPA 8321B
 Batch ID: P359229

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	84.2		P	40 - 150
Acetaminophen	94.8		P	30 - 150
Bentazon	112		P	30 - 150
Carbamazepine	89.6		P	40 - 150
Diuron	83.6		P	40 - 150
Fenuron	129		P	40 - 150
Fluridone	114		P	40 - 150
Hydrocodone	115		P	40 - 150
Ibuprofen	78.0		P	40 - 150
Imazapyr	102		P	40 - 150
Imidacloprid	104		P	40 - 150
Linuron	82.6		P	40 - 150
MCPP	97.3		P	40 - 150
Naproxen	75.3		P	40 - 150
Primidone	103		P	40 - 150
Pyraclostrobin	69.3		P	40 - 150
Triclopyr	56.7		P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P359489

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	115		P	40 - 150
AMPA	93.3		P	40 - 150
Endothall	89.1		P	40 - 150
Glufosinate	121		P	40 - 150
Glyphosate	104		P	40 - 140
Sucralose	94.4		P	40 - 150

Reference Method: SM 2120 B
 Batch ID: P359401

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.1		P	85 - 115

Reference Method: SM 2320 B-97
 Batch ID: P359609

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 107

Reference Method: SM 4500 F-C-97
 Batch ID: P359611

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.9		P	91 - 105

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P359746

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360100

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2064354	Chloride	108		P	90 - 110
2064794	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360102

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2064354	Sulfate	107		P	90 - 110
2064794	Sulfate	108		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359559

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2064795	Ammonia-N	97.9	108	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359603

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2064719	Kjeldahl Nitrogen	93.0	98.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359585

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2064795	NO2NO3-N	97.6	98.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359501

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2064734	Total-P	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359502

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2064802	Total-P	101	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359396

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2064804	O-Phosphate-P	92.4	93.9	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P359229

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065167	2,4-D	107	100	P/P	40 - 150
2065167	Acetaminophen	103	103	P/P	30 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P359229

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065167	Bentazon	90.7	73.0	P/P	30 - 150
2065167	Carbamazepine	79.7	79.0	P/P	40 - 150
2065167	Diuron	74.6	72.4	P/P	40 - 150
2065167	Fenuron	111	105	P/P	40 - 150
2065167	Fluridone	117	111	P/P	40 - 150
2065167	Hydrocodone	124	123	P/P	40 - 150
2065167	Ibuprofen	83.8	77.5	P/P	40 - 150
2065167	Imazapyr	111	99.2	P/P	40 - 150
2065167	Imidacloprid	194	192	F/F	40 - 150
2065167	Linuron	78.0	71.2	P/P	40 - 150
2065167	MCPP	123	113	P/P	40 - 150
2065167	Naproxen	71.6	67.4	P/P	40 - 150
2065167	Primidone	119	116	P/P	40 - 150
2065167	Pyraclostrobin	86.3	81.4	P/P	40 - 150
2065167	Triclopyr	67.3	59.4	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P359489

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2064785	Acesulfame K	140	135	P/P	40 - 150
2064785	Endothall	91.8	93.3	P/P	40 - 150
2064785	Sucralose	113	126	P/P	40 - 150
2064793	AMPA	68.0	67.8	P/P	40 - 150
2064793	Glufosinate	77.2	84.3	P/P	40 - 150
2064793	Glyphosate	94.7	103	P/P	40 - 140

Reference Method: SM 4500 F-C-97
Batch ID: P359611

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2064842	Fluoride	95.9	94.9	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P359746

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2064355	Organic Carbon	95.2	97.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359365

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064718	Turbidity	0.726	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359366

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064826	Turbidity	7.09	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360100

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064354	Chloride	0.532	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360102

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064354	Sulfate	0.491	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359559

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064795	Ammonia-N	8.43	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359525

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064795	Kjeldahl Nitrogen	2.92	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359603

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064719	Kjeldahl Nitrogen	3.50	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064859	Kjeldahl Nitrogen	0.848	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P359585

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064795	NO2NO3-N	0.491	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P359501

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064734	Total-P	0.624	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P359502

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064802	Total-P	3.02	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P359396

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064804	O-Phosphate-P	1.61	Spike	P	0 - 20

Reference Method: EPA 8321B
 Batch ID: P359229

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065167	2,4-D	6.48	Spike	P	0 - 30
2065167	Acetaminophen	0.828	Spike	P	0 - 30
2065167	Bentazon	6.36	Spike	P	0 - 30
2065167	Carbamazepine	0.809	Spike	P	0 - 30
2065167	Diuron	3.06	Spike	P	0 - 30
2065167	Fenuron	5.16	Spike	P	0 - 30
2065167	Fluridone	4.45	Spike	P	0 - 30
2065167	Hydrocodone	0.752	Spike	P	0 - 30
2065167	Ibuprofen	7.83	Spike	P	0 - 30
2065167	Imazapyr	4.88	Spike	P	0 - 30
2065167	Imidacloprid	0.779	Spike	P	0 - 30
2065167	Linuron	9.10	Spike	P	0 - 30
2065167	MCPP	8.15	Spike	P	0 - 30
2065167	Naproxen	6.05	Spike	P	0 - 30
2065167	Primidone	2.81	Spike	P	0 - 30
2065167	Pyraclostrobin	5.86	Spike	P	0 - 30
2065167	Triclopyr	12.4	Spike	P	0 - 30

Reference Method: EPA 8321B
 Batch ID: P359489

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

Reference Method: EPA 8321B
Batch ID: P359489

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064785	Acesulfame K	3.78	Spike	P	0 - 30
2064785	Endothall	1.58	Spike	P	0 - 30
2064785	Sucralose	5.78	Spike	P	0 - 30
2064793	AMPA	0.147	Spike	P	0 - 30
2064793	Glufosinate	8.84	Spike	P	0 - 30
2064793	Glyphosate	5.97	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P359401

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064798	Color (true)	1.93	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P359609

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064842	Total Alkalinity	1.65	Sample	F	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P359868

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064794	TDS	3.19	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P359611

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064842	Fluoride	0.948	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P359746

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2064355	Organic Carbon	1.81	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

Lab Sample ID: 2064812
Field Sample ID: G2CE0108

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	97.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	112	P	30 - 160
EPA 8321B	Carbamazepine-d10	65.1	P	30 - 160
EPA 8321B	Diuron-d6	62.2	P	30 - 160
EPA 8321B	Endothall-d6	121	P	40 - 160
EPA 8321B	Endothall-d6	121	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	81.3	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	81.3	P	40 - 160
EPA 8321B	Ibuprofen-d3	94.0	P	30 - 160
EPA 8321B	Primidone-d5	87.1	P	30 - 160
EPA 8321B	Sucralose-d6	83.9	P	40 - 160
EPA 8321B	Sucralose-d6	83.9	P	40 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A89591

Included Lab Sample IDs: 2064794, 2064797, 2064798, 2064799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	100	P/P	95 - 105
Turbidity	98.5	100	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A89594

Included Lab Sample IDs: 2064796, 2064803, 2064804, 2064805

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.9	98.6	P/P	90 - 110
O-Phosphate-P	99.2	98.9	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A89595

Included Lab Sample IDs: 2064794, 2064797, 2064798, 2064799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	97.8	98.8	P/P	90 - 115
Color (true)	98.8	99.9	P/P	90 - 115
Color (true)	99.9	99.5	P/P	90 - 115

Reference Method: EPA 8321B

Run ID: A89650

Included Lab Sample IDs: 2064812

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	85.8	92.0	P/P	60 - 160
Glufosinate	98.7	98.9	P/P	60 - 160
Glyphosate	101	99.8	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A89656

Included Lab Sample IDs: 2064795

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A89659

Included Lab Sample IDs: 2064800, 2064801, 2064802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	107	107	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A89665

Included Lab Sample IDs: 2064812

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	134	165*	P/F	60 - 160
Endothall	91.6	135	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A89670

Included Lab Sample IDs: 2064795, 2064800, 2064801, 2064802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	106	106	P/P	90 - 110
Ammonia-N	106	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A89683

Included Lab Sample IDs: 2064795, 2064800, 2064801, 2064802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A89688

Included Lab Sample IDs: 2064794, 2064797, 2064798, 2064799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.8	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A89688

Included Lab Sample IDs: 2064794, 2064797, 2064798, 2064799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.1	98.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A89717

Included Lab Sample IDs: 2064812

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	107	122	P/P	50 - 150
Acetaminophen	112	115	P/P	60 - 160
Bentazon	118	116	P/P	50 - 160
Carbamazepine	106	104	P/P	60 - 150
Diuron	111	113	P/P	60 - 150
Fenuron	109	111	P/P	60 - 150
Fluridone	109	111	P/P	60 - 160
Hydrocodone	110	111	P/P	60 - 150
Ibuprofen	106	87.8	P/P	50 - 160
Imazapyr	101	98.8	P/P	50 - 150
Imidacloprid	100	103	P/P	60 - 150
Linuron	110	105	P/P	60 - 150
MCPP	87.3	88.8	P/P	50 - 150
Naproxen	107	96.9	P/P	50 - 160
Primidone	104	104	P/P	60 - 150
Pyraclostrobin	101	102	P/P	60 - 150
Triclopyr	86.8	93.9	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A89719

Included Lab Sample IDs: 2064795, 2064800

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A89733

Included Lab Sample IDs: 2064801, 2064802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	98.8	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A89740

Included Lab Sample IDs: 2064795, 2064800, 2064801, 2064802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.6	94.5	P/P	90 - 110
Organic Carbon	93.8	93.6	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A89762

Included Lab Sample IDs: 2064812

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	126	93.9	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A89885

Included Lab Sample IDs: 2064794, 2064797, 2064798, 2064799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	105	106	P/P	90 - 110
Chloride	106	106	P/P	90 - 110
Sulfate	105	106	P/P	90 - 110
Sulfate	106	106	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	
						SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					0.726	
	Turbidity					7.09	
EPA 300.0 Rev. 2.1	Chloride	108	108	105		0.532	
	Sulfate	108	107	108		0.491	
EPA 350.1 Rev. 2.0	Ammonia-N	96.4	97.9	108			8.43
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	108					2.92
	Kjeldahl Nitrogen	95.5	93.0	98.7			3.50
	Kjeldahl Nitrogen	105					0.848
EPA 353.2 Rev. 2.0	NO2NO3-N	100	97.6	98.1			0.491
EPA 365.1 Rev. 2.0	Total-P	104	103	104			0.624
	Total-P	98.6	101	104			3.02
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.3	92.4	93.9			1.61
EPA 8321B	2,4-D	84.2	107	100			6.48
	Acesulfame K	115	140	135			3.78
	Acetaminophen	94.8	103	103			0.828
	AMPA	93.3	68.0	67.8			0.147
	Bentazon	112	90.7	73.0			6.36
	Carbamazepine	89.6	79.7	79.0			0.809
	Diuron	83.6	74.6	72.4			3.06
	Endothall	89.1	91.8	93.3			1.58
	Fenuron	129	111	105			5.16
	Fluridone	114	117	111			4.45
	Glufosinate	121	77.2	84.3			8.84
	Glyphosate	104	94.7	103			5.97
	Hydrocodone	115	124	123			0.752
	Ibuprofen	78.0	83.8	77.5			7.83
	Imazapyr	102	111	99.2			4.88
	Imidacloprid	104	194	192			0.779
	Linuron	82.6	78.0	71.2			9.10
	MCPP	97.3	123	113			8.15
	Naproxen	75.3	71.6	67.4			6.05
	Primidone	103	119	116			2.81
	Pyraclostrobin	69.3	86.3	81.4			5.86
	Sucralose	94.4	113	126			5.78
	Triclopyr	56.7	67.3	59.4			12.4
SM 2120 B	Color (true)	99.1				1.93	
SM 2320 B-97	Total Alkalinity	102				1.65	
SM 2540 C-97	TDS					3.19	
SM 4500 F-C-97	Fluoride	95.9	95.9	94.9			0.948
SM 5310 B-00	Organic Carbon	96.2	95.2	97.0			1.81

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2064794, 2064797, 2064798, 2064799
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2064794, 2064797, 2064798, 2064799
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2064794, 2064797, 2064798, 2064799
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2064795, 2064800, 2064801, 2064802
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2064795, 2064800, 2064801, 2064802

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2064795, 2064800, 2064801, 2064802
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2064795, 2064800, 2064801, 2064802
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2064796, 2064803, 2064804, 2064805
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2064812
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2064812
SM 2120 B / E31780	True Color measured at 450 nm	2064794, 2064797, 2064798, 2064799
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2064794, 2064797, 2064798, 2064799
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2064794, 2064797, 2064798, 2064799
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2064794, 2064797, 2064798, 2064799
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2064794, 2064797, 2064798, 2064799
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2064795, 2064800, 2064801, 2064802

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	02/22/2019			02/22/2019 15:09	Adrian Shelby	2064794, 2064797, 2064798, 2064799
EPA 300.0 Rev. 2.1	02/22/2019			03/07/2019 03:12	Lipi Saha	2064794
	02/22/2019			03/07/2019 06:53	Lipi Saha	2064797
	02/22/2019			03/07/2019 07:08	Lipi Saha	2064798
	02/22/2019			03/07/2019 07:23	Lipi Saha	2064799
EPA 350.1 Rev. 2.0	02/22/2019			02/26/2019 12:17	Ping Hua	2064801
	02/22/2019			02/26/2019 12:35	Ping Hua	2064795
	02/22/2019			02/26/2019 12:37	Ping Hua	2064800
	02/22/2019			02/26/2019 12:38	Ping Hua	2064802
EPA 351.2 Rev. 2.0	02/22/2019	02/26/2019 11:30	Adrian Shelby	02/28/2019 11:07	Joseph Suarez	2064795
	02/22/2019	02/26/2019 11:30	Adrian Shelby	02/28/2019 11:15	Joseph Suarez	2064800
	02/22/2019	02/27/2019 11:45	Adrian Shelby	02/28/2019 13:58	Joseph Suarez	2064801
	02/22/2019	02/27/2019 11:45	Adrian Shelby	02/28/2019 14:03	Joseph Suarez	2064802
EPA 353.2 Rev. 2.0	02/22/2019			02/27/2019 09:44	Beverly Y. Sanders	2064795
	02/22/2019			02/27/2019 09:50	Beverly Y. Sanders	2064800
	02/22/2019			02/27/2019 09:51	Beverly Y. Sanders	2064801
	02/22/2019			02/27/2019 09:52	Beverly Y. Sanders	2064802
EPA 365.1 Rev. 2.0	02/22/2019	02/25/2019 14:05	Sima Feizi	02/26/2019 12:37	Rosalyn Ballman	2064795
	02/22/2019	02/25/2019 14:05	Sima Feizi	02/26/2019 14:18	Rosalyn Ballman	2064800
	02/22/2019	02/25/2019 14:05	Sima Feizi	02/26/2019 14:19	Rosalyn Ballman	2064801
	02/22/2019	02/25/2019 14:05	Sima Feizi	02/26/2019 14:21	Rosalyn Ballman	2064802
EPA 365.1 Rev. 2.0 dissolved	02/22/2019			02/22/2019 15:31	Jhamieka S. Greenwood	2064804
	02/22/2019			02/22/2019 15:48	Jhamieka S. Greenwood	2064796, 2064803
	02/22/2019			02/22/2019 15:49	Jhamieka S. Greenwood	2064805
EPA 8321B	02/22/2019	02/26/2019 09:30	Mohammad Ghaffari	02/26/2019 11:25	Mohammad Ghaffari	2064812
	02/22/2019	02/26/2019 09:30	Mohammad Ghaffari	02/26/2019 16:47	Mohammad Ghaffari	2064812
	02/22/2019	02/26/2019 09:30	Mohammad Ghaffari	03/02/2019 19:01	Mohammad Ghaffari	2064812
	02/22/2019	02/27/2019 09:30	Hoor Shaik	02/28/2019 04:26	Juyoung Kim	2064812
SM 2120 B	02/22/2019			02/22/2019 15:54	Chelsea Hernandez	2064798
	02/22/2019			02/22/2019 15:55	Chelsea Hernandez	2064799
	02/22/2019			02/22/2019 16:07	Chelsea Hernandez	2064794
	02/22/2019			02/22/2019 16:12	Chelsea Hernandez	2064797
SM 2320 B-97	02/22/2019			02/26/2019 22:46	Dale L. Simmons	2064794
	02/22/2019			02/26/2019 22:58	Dale L. Simmons	2064797
	02/22/2019			02/26/2019 23:11	Dale L. Simmons	2064798
	02/22/2019			02/26/2019 23:22	Dale L. Simmons	2064799
SM 2540 C-97	02/22/2019			02/27/2019 14:29	Yijie Li	2064794, 2064797, 2064798, 2064799
SM 2540 D-97	02/22/2019			02/27/2019 14:29	Yijie Li	2064794, 2064797, 2064798, 2064799
SM 4500 F-C-97	02/22/2019			02/26/2019 22:46	Dale L. Simmons	2064794
	02/22/2019			02/26/2019 22:58	Dale L. Simmons	2064797

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500 F-C-97	02/22/2019			02/26/2019 23:11	Dale L. Simmons	2064798
	02/22/2019			02/26/2019 23:22	Dale L. Simmons	2064799
SM 5310 B-00	02/22/2019			02/28/2019 09:06	Chelsea Hernandez	2064795
	02/22/2019			02/28/2019 09:20	Chelsea Hernandez	2064800
	02/22/2019			02/28/2019 10:01	Chelsea Hernandez	2064801
	02/22/2019			02/28/2019 10:15	Chelsea Hernandez	2064802