

Chemical Analysis Report

CEN-DIST-2019-10-03-01

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

Event Description: **Roberts Branch / Long Branch X2**
Request ID: **RQ-2019-09-30-80**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Michael Linger

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Liang Lin, Environmental Administrator

Date Certified: 23-OCT-2019 17:45

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored 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 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: Long Branch @ 500m DS of CR 13

Collection Date/Time: 10/02/2019 11:05

Field ID: G2CE0199

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2124718	EPA 8321B	2,4-D	0.0020	U	ug/L	P371946	
		Acesulfame K**	0.10	U	ug/L	P371943	
		AMPA**	0.35	I	ug/L	P371943	
		Sucralose**	0.12		ug/L	P371943	
		Acetaminophen**	0.0080	U	ug/L	P371946	
		Acetamiprid**	0.0020	U	ug/L	P371946	
		Endothall**	0.25	U	ug/L	P371943	
		Glufosinate**	0.10	U	ug/L	P371943	
		Glyphosate**	3.6		ug/L	P371943	
		Afidopyropen**	0.0020	UJ	ug/L	P371946	
		Bentazon	9.3E-04	I	ug/L	P371946	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P371946	
		Carbamazepine**	8.0E-04	U	ug/L	P371946	
		Clothianidin**	0.0020	U	ug/L	P371946	
		Dinotefuran**	0.0020	U	ug/L	P371946	
		Diuron	0.0020	U	ug/L	P371946	
		Fenuron	0.016	U	ug/L	P371946	
		Fluridone**	0.0011	I	ug/L	P371946	
		Imazapyr**	0.0056	I	ug/L	P371946	
		Hydrocodone**	0.0020	U	ug/L	P371946	
		Ibuprofen**	0.020	U	ug/L	P371946	
		Imidacloprid	0.0027	I	ug/L	P371946	MS
		Linuron	0.0040	U	ug/L	P371946	
		Mandestrobin**	0.0020	UJ	ug/L	P371946	
		MCPP	0.0020	U	ug/L	P371946	
		Naproxen**	0.0080	U	ug/L	P371946	
		Primidone**	0.0040	U	ug/L	P371946	
		Pyraclostrobin**	0.0020	U	ug/L	P371946	
		Thiamethoxam**	0.0020	U	ug/L	P371946	MS
		Tolfenpyrad**	0.0020	U	ug/L	P371946	
		Triclopyr**	0.0040	U	ug/L	P371946	

Ref. Method and Comment:

EPA 8321B: J - second source check standards for some analytes were not available for analysis.

Sample Location: Long Branch @ 0.7 mi DS of CR 13

Collection Date/Time: 10/02/2019 10:32

Field ID: G2CE0036

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2124719	EPA 8321B	2,4-D	0.0020	U	ug/L	P371946	
		Acesulfame K**	0.10	U	ug/L	P371943	
		AMPA**	0.44		ug/L	P371943	
		Sucralose**	0.13		ug/L	P371943	
		Acetaminophen**	0.0080	U	ug/L	P371946	
		Acetamiprid**	0.0020	U	ug/L	P371946	
		Endothall**	0.25	U	ug/L	P371943	
		Glufosinate**	0.10	U	ug/L	P371943	
		Glyphosate**	3.7		ug/L	P371943	
		Afidopyropen**	0.0020	UJ	ug/L	P371946	
		Bentazon	0.0010	I	ug/L	P371946	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P371946	
		Carbamazepine**	8.0E-04	U	ug/L	P371946	
		Clothianidin**	0.0020	U	ug/L	P371946	
		Dinotefuran**	0.0020	U	ug/L	P371946	
		Diuron	0.0020	U	ug/L	P371946	
		Fenuron	0.016	U	ug/L	P371946	
		Fluridone**	0.0014	I	ug/L	P371946	
		Imazapyr**	0.0050	I	ug/L	P371946	
		Hydrocodone**	0.0020	U	ug/L	P371946	
		Ibuprofen**	0.020	U	ug/L	P371946	
		Imidacloprid	0.0020	U	ug/L	P371946	MS
		Linuron	0.0040	U	ug/L	P371946	
		Mandestrobin**	0.0020	UJ	ug/L	P371946	
		MCPP	0.0020	U	ug/L	P371946	
		Naproxen**	0.0080	U	ug/L	P371946	
		Primidone**	0.0040	U	ug/L	P371946	
		Pyraclostrobin**	0.0020	U	ug/L	P371946	
		Thiamethoxam**	0.0020	U	ug/L	P371946	MS
		Tolfenpyrad**	0.0020	U	ug/L	P371946	
		Triclopyr**	0.0040	U	ug/L	P371946	

Ref. Method and Comment:

EPA 8321B: J - second source check standards for some analytes were not available for analysis.

Sample Location: Roberts Branch @ Curryville Rd

Collection Date/Time: 10/02/2019 11:50

Field ID: G3CE0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2124709	EPA 180.1 Rev. 2.0	Turbidity	4.1		NTU	P371849	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P372382	
		Sulfate	6.1		mg SO4/L	P372386	
	SM 2120 B	Color (true)	160		PCU	P371854	
	SM 2320 B-97	Total Alkalinity	10		mg CaCO3/L	P372158	
	SM 2540 C-97	TDS	80		mg/L	P372429	
	SM 2540 D-97	TSS	7	I	mg/L	P372226	RPD
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P372161	
2124710	EPA 350.1 Rev. 2.0	Ammonia-N	0.048		mg N/L	P372141	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.53		mg N/L	P371929	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.031		mg N/L	P372038	
	EPA 365.1 Rev. 2.0	Total-P	0.064		mg P/L	P371921	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P371949	
2124711	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.035		mg P/L	P371906	
2124717	EPA 8321B	2,4-D	0.0020	U	ug/L	P371946	
		Acesulfame K**	0.10	U	ug/L	P371943	
		AMPA**	0.10	U	ug/L	P371943	
		Sucralose**	0.082		ug/L	P371943	
		Acetaminophen**	0.0080	U	ug/L	P371946	
		Acetamiprid**	0.0020	U	ug/L	P371946	
		Endothall**	0.25	U	ug/L	P371943	
		Glufosinate**	0.10	U	ug/L	P371943	
		Glyphosate**	0.10	U	ug/L	P371943	
		Afidopyrophen**	0.0020	UJ	ug/L	P371946	
		Bentazon	8.0E-04	U	ug/L	P371946	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P371946	
		Carbamazepine**	8.0E-04	U	ug/L	P371946	
		Clothianidin**	0.0020	U	ug/L	P371946	
		Dinotefuran**	0.0020	U	ug/L	P371946	
		Diuron	0.0020	U	ug/L	P371946	
		Fenuron	0.016	U	ug/L	P371946	
		Fluridone**	8.0E-04	U	ug/L	P371946	
		Imazapyr**	0.0040	U	ug/L	P371946	
		Hydrocodone**	0.0020	U	ug/L	P371946	
		Ibuprofen**	0.020	U	ug/L	P371946	
		Imidacloprid	0.0020	UJ	ug/L	P371946	MS
		Linuron	0.0040	U	ug/L	P371946	
		Mandestrobin**	0.0020	UJ	ug/L	P371946	
		MCP	0.0020	U	ug/L	P371946	
		Naproxen**	0.0080	U	ug/L	P371946	
		Primidone**	0.0040	U	ug/L	P371946	
		Pyraclostrobin**	0.0020	U	ug/L	P371946	
		Thiamethoxam**	0.0020	UJ	ug/L	P371946	MS

Field ID: G3CE0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2124717	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P371946	
		Triclopyr**	0.0040	U	ug/L	P371946	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

EPA 8321B: J - second source check standards for some analytes were not available for analysis. 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: P371849

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372382

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372386

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P372141

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371929

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372038

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P371921

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P371906

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

Reference Method: EPA 8321B
Batch ID: P371943

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P371943

Component	Result	Code	Units
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P371946

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	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
Mandestrobin	0.0020	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
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2120 B
Batch ID: P371854

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P372158

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

Reference Method: SM 2540 C-97
Batch ID: P372429

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P372226

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P372161

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P371949

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: P372382

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372386

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P372141

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371929

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372038

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: P371921

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P371906

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.9		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P371943

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	111		P	40 - 150
AMPA	114		P	40 - 150
Endothall	96.2		P	40 - 150
Glufosinate	101		P	40 - 150
Glyphosate	92.1		P	40 - 140
Sucralose	86.9		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P371946

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	110		P	40 - 160
Acetaminophen	75.0		P	30 - 160
Acetamiprid	91.1		P	40 - 160
Afidopyropen	72.7		P	40 - 160
Bentazon	99.7		P	30 - 160
Benzovindiflupyr	83.5		P	40 - 160
Carbamazepine	94.2		P	40 - 160
Clothianidin	83.5		P	40 - 160
Dinotefuran	88.0		P	40 - 160
Diuron	87.2		P	40 - 160
Fenuron	98.4		P	40 - 160
Fluridone	85.5		P	40 - 160
Hydrocodone	93.4		P	40 - 160
Ibuprofen	78.8		P	30 - 160
Imazapyr	116		P	40 - 160
Imidacloprid	96.0		P	40 - 160
Linuron	71.3		P	40 - 160
Mandestrobin	79.8		P	40 - 160
MCPP	115		P	40 - 160
Naproxen	82.8		P	40 - 160
Primidone	96.0		P	40 - 160
Pyraclostrobin	73.4		P	30 - 160
Thiamethoxam	91.2		P	40 - 160
Tolfenpyrad	50.7		P	40 - 160
Triclopyr	80.7		P	30 - 160

Reference Method: SM 2120 B

Batch ID: P371854

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	85 - 115

Reference Method: SM 2320 B-97

Batch ID: P372158

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 106

Reference Method: SM 4500 F-C-97

Batch ID: P372161

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.4		P	92 - 103

Reference Method: SM 5310 B-00

Batch ID: P371949

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372382

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2124610	Chloride	98.5		P	90 - 110
2124728	Chloride	99.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372386

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2124610	Sulfate	99.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P372141

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2124653	Ammonia-N	96.6	93.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371929

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2124653	Kjeldahl Nitrogen	101	109	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372038

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2124731	NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P371921

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2124731	Total-P	95.5	95.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P371906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2124647	O-Phosphate-P	95.0	94.8	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P371943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2124583	Acesulfame K	76.1	74.5	P/P	40 - 150
2124583	AMPA	50.1	50.4	P/P	40 - 150
2124583	Endothall	74.0	79.5	P/P	40 - 150
2124583	Glufosinate	71.3	66.8	P/P	40 - 150
2124583	Glyphosate	48.1	49.7	P/P	40 - 140
2124583	Sucralose	88.1	82.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
 Batch ID: P371946

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2124717	2,4-D	135	122	P/P	40 - 160
2124717	Acetaminophen	75.3	71.7	P/P	30 - 160
2124717	Acetamiprid	117	107	P/P	40 - 160
2124717	Afidopyropen	72.7	63.3	P/P	40 - 160
2124717	Bentazon	68.9	66.8	P/P	30 - 160
2124717	Benzovindiflupyr	91.5	78.7	P/P	40 - 160
2124717	Carbamazepine	104	96.6	P/P	40 - 160
2124717	Clothianidin	109	97.7	P/P	40 - 160
2124717	Dinotefuran	118	109	P/P	40 - 160
2124717	Diuron	85.7	83.0	P/P	40 - 160
2124717	Fenuron	91.4	86.1	P/P	40 - 160
2124717	Fluridone	91.1	88.1	P/P	40 - 160
2124717	Hydrocodone	99.9	91.2	P/P	40 - 160
2124717	Ibuprofen	84.6	77.3	P/P	30 - 160
2124717	Imazapyr	101	106	P/P	40 - 160
2124717	Imidacloprid	205	186	F/F	40 - 160
2124717	Linuron	81.3	80.0	P/P	40 - 160
2124717	Mandestrobin	88.1	78.9	P/P	40 - 160
2124717	MCP	147	137	P/P	40 - 160
2124717	Naproxen	103	105	P/P	40 - 160
2124717	Primidone	116	105	P/P	40 - 160
2124717	Pyraclostrobin	83.0	75.8	P/P	30 - 160
2124717	Thiamethoxam	167	152	F/P	40 - 160
2124717	Tolfenpyrad	66.5	58.4	P/P	40 - 160
2124717	Triclopyr	118	90.5	P/P	30 - 160

Reference Method: SM 4500 F-C-97
 Batch ID: P372161

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2124610	Fluoride	96.0	95.5	P/P	89 - 106

Reference Method: SM 5310 B-00
 Batch ID: P371949

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2124734	Organic Carbon	97.4	97.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P371849

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124652	Turbidity	5.06	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372382

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124610	Chloride	0.416	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372386

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124610	Sulfate	0.372	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P372141

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124653	Ammonia-N	2.96	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371929

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124653	Kjeldahl Nitrogen	4.14	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372038

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124731	NO2NO3-N	0.471	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P371921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124731	Total-P	0.120	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P371906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124647	O-Phosphate-P	0.192	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P371943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124583	Acesulfame K	2.15	Spike	P	0 - 30
2124583	AMPA	0.256	Spike	P	0 - 30
2124583	Endothall	7.10	Spike	P	0 - 30
2124583	Glufosinate	6.59	Spike	P	0 - 30
2124583	Glyphosate	1.68	Spike	P	0 - 30
2124583	Sucralose	5.37	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P371946

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124717	2,4-D	9.54	Spike	P	0 - 30
2124717	Acetaminophen	4.93	Spike	P	0 - 30
2124717	Acetamiprid	8.65	Spike	P	0 - 30
2124717	Afidopyropen	13.8	Spike	P	0 - 30
2124717	Bentazon	3.04	Spike	P	0 - 30
2124717	Benzovindiflupyr	15.1	Spike	P	0 - 30
2124717	Carbamazepine	7.56	Spike	P	0 - 30
2124717	Clothianidin	10.9	Spike	P	0 - 30
2124717	Dinotefuran	8.14	Spike	P	0 - 30
2124717	Diuron	3.11	Spike	P	0 - 30
2124717	Fenuron	5.99	Spike	P	0 - 30
2124717	Fluridone	3.37	Spike	P	0 - 30
2124717	Hydrocodone	9.06	Spike	P	0 - 30
2124717	Ibuprofen	9.06	Spike	P	0 - 30
2124717	Imazapyr	4.96	Spike	P	0 - 30
2124717	Imidacloprid	10.0	Spike	P	0 - 30
2124717	Linuron	1.65	Spike	P	0 - 30
2124717	Mandestrobin	11.1	Spike	P	0 - 30
2124717	MCP	6.80	Spike	P	0 - 30
2124717	Naproxen	1.95	Spike	P	0 - 30
2124717	Primidone	9.76	Spike	P	0 - 30
2124717	Pyraclostrobin	9.05	Spike	P	0 - 30
2124717	Thiamethoxam	9.65	Spike	P	0 - 30
2124717	Tolfenpyrad	13.0	Spike	P	0 - 30
2124717	Triclopyr	26.8	Spike	P	0 - 30

Reference Method: SM 2120 B

Batch ID: P371854

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124727	Color (true)	1.62	Sample	P	0 - 20

Reference Method: SM 2320 B-97

Batch ID: P372158

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124610	Total Alkalinity	0.222	Sample	P	0 - 2.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P372429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124649	TDS	1.76	Sample	P	0 - 10

Reference Method: SM 2540 D-97
Batch ID: P372226

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124649	TSS	13.7	Sample	F	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P372161

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124610	Fluoride	0.473	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P371949

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124734	Organic Carbon	0.0307	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2124717
Field Sample ID: G3CE0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	122	P	30 - 160
EPA 8321B	Acetaminophen-d4	66.4	P	30 - 160
EPA 8321B	Bentazon-d7	60.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	86.6	P	30 - 160
EPA 8321B	Diuron-d6	82.0	P	30 - 160
EPA 8321B	Endothall-d6	89.9	P	30 - 160
EPA 8321B	Endothall-d6	89.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.2	P	30 - 160
EPA 8321B	Primidone-d5	91.5	P	30 - 160
EPA 8321B	Sucralose-d6	78.9	P	30 - 160
EPA 8321B	Sucralose-d6	78.9	P	30 - 160

Lab Sample ID: 2124718
Field Sample ID: G2CE0199

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	135	P	30 - 160
EPA 8321B	Acetaminophen-d4	66.4	P	30 - 160
EPA 8321B	Bentazon-d7	80.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	95.7	P	30 - 160
EPA 8321B	Diuron-d6	87.5	P	30 - 160
EPA 8321B	Endothall-d6	82.8	P	30 - 160
EPA 8321B	Endothall-d6	82.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Ibuprofen-d3	84.4	P	30 - 160
EPA 8321B	Primidone-d5	110	P	30 - 160
EPA 8321B	Sucralose-d6	73.8	P	30 - 160
EPA 8321B	Sucralose-d6	73.8	P	30 - 160

Lab Sample ID: 2124719
Field Sample ID: G2CE0036

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	125	P	30 - 160
EPA 8321B	Acetaminophen-d4	71.1	P	30 - 160
EPA 8321B	Bentazon-d7	71.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	95.8	P	30 - 160
EPA 8321B	Diuron-d6	82.7	P	30 - 160
EPA 8321B	Endothall-d6	87.6	P	30 - 160
EPA 8321B	Endothall-d6	87.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	107	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.4	P	30 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Sucralose-d6	78.2	P	30 - 160
EPA 8321B	Sucralose-d6	78.2	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A94709

Included Lab Sample IDs: 2124709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.0	P/P	95 - 105

Reference Method: SM 2120 B

Run ID: A94710

Included Lab Sample IDs: 2124709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	103	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A94721

Included Lab Sample IDs: 2124711

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.6	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A94727

Included Lab Sample IDs: 2124710

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

Reference Method: SM 5310 B-00

Run ID: A94743

Included Lab Sample IDs: 2124710

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.9	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A94753

Included Lab Sample IDs: 2124710

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A94758

Included Lab Sample IDs: 2124710

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A94808

Included Lab Sample IDs: 2124710

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.8	99.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97
 Run ID: A94818
 Included Lab Sample IDs: 2124709

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

Reference Method: SM 4500 F-C-97
 Run ID: A94818
 Included Lab Sample IDs: 2124709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.5	98.1	P/P	90 - 110

Reference Method: EPA 8321B
 Run ID: A94823
 Included Lab Sample IDs: 2124717, 2124718, 2124719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	111	116	P/P	60 - 160
Glufosinate	105	101	P/P	60 - 160
Glyphosate	100	105	P/P	60 - 160

Reference Method: EPA 8321B
 Run ID: A94824
 Included Lab Sample IDs: 2124717, 2124718, 2124719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	109	105	P/P	60 - 160
Endothall	86.8	91.7	P/P	60 - 160

Reference Method: EPA 8321B
 Run ID: A94848
 Included Lab Sample IDs: 2124717, 2124718, 2124719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	74.3	80.2	P/P	60 - 160

Reference Method: EPA 8321B
 Run ID: A94876
 Included Lab Sample IDs: 2124717, 2124718, 2124719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.1	87.3	P/P	50 - 150
Acetaminophen	93.0	90.4	P/P	60 - 160
Acetamiprid	101	108	P/P	50 - 150
Afidopyropen	82.0	79.0	P/P	50 - 150
Bentazon	101	102	P/P	50 - 160
Benzovindiflupyr	92.9	87.2	P/P	50 - 150
Carbamazepine	105	107	P/P	60 - 150
Clothianidin	98.3	94.7	P/P	60 - 150
Dinotefuran	95.4	97.8	P/P	50 - 150
Diuron	99.4	97.7	P/P	60 - 150
Fenuron	96.7	105	P/P	60 - 150
Fluridone	99.0	97.7	P/P	60 - 160
Hydrocodone	99.6	103	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A94876

Included Lab Sample IDs: 2124717, 2124718, 2124719

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ibuprofen	76.8	80.7	P/P	50 - 160
Imazapyr	112	112	P/P	50 - 150
Imidacloprid	96.2	101	P/P	60 - 150
Linuron	103	96.8	P/P	60 - 150
Mandestrobin	93.5	84.8	P/P	50 - 150
MCPP	78.6	76.4	P/P	50 - 150
Naproxen	76.8	86.8	P/P	50 - 160
Primidone	95.3	107	P/P	60 - 150
Pyraclostrobin	87.1	86.5	P/P	60 - 150
Thiamethoxam	100	90.6	P/P	50 - 150
Tolfenpyrad	98.4	99.3	P/P	60 - 150
Triclopyr	86.7	82.2	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A94920

Included Lab Sample IDs: 2124709

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Sulfate	102	102	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	MS
						SMP	
EPA 180.1 Rev. 2.0	Turbidity					5.06	
EPA 300.0 Rev. 2.1	Chloride	100	98.5	99.3		0.416	
	Sulfate	100	99.9			0.372	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	96.6	93.4			2.96
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	110	101	109			4.14
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	99.5				0.471
EPA 365.1 Rev. 2.0	Total-P	98.6	95.5	95.8			0.120
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.9	95.0	94.8			0.192
EPA 8321B	2,4-D	110	135	122			9.54
	Acesulfame K	111	76.1	74.5			2.15
	Acetaminophen	75.0	75.3	71.7			4.93
	Acetamiprid	91.1	117	107			8.65
	Afidopyropen	72.7	72.7	63.3			13.8
	AMPA	114	50.1	50.4			0.256
	Bentazon	99.7	68.9	66.8			3.04
	Benzovindiflupyr	83.5	91.5	78.7			15.1
	Carbamazepine	94.2	104	96.6			7.56
	Clothianidin	83.5	109	97.7			10.9
	Dinotefuran	88.0	118	109			8.14
	Diuron	87.2	85.7	83.0			3.11
	Endothall	96.2	74.0	79.5			7.10
	Fenuron	98.4	91.4	86.1			5.99
	Fluridone	85.5	91.1	88.1			3.37
	Glufosinate	101	71.3	66.8			6.59
	Glyphosate	92.1	48.1	49.7			1.68
	Hydrocodone	93.4	99.9	91.2			9.06
	Ibuprofen	78.8	84.6	77.3			9.06
	Imazapyr	116	101	106			4.96
	Imidacloprid	96.0	205	186			10.0
	Linuron	71.3	81.3	80.0			1.65
	Mandestrobin	79.8	88.1	78.9			11.1
	MCP	115	147	137			6.80
	Naproxen	82.8	103	105			1.95
	Primidone	96.0	116	105			9.76
	Pyraclostrobin	73.4	83.0	75.8			9.05
	Sucralose	86.9	88.1	82.9			5.37
	Thiamethoxam	91.2	167	152			9.65
	Tolfenpyrad	50.7	66.5	58.4			13.0
	Triclopyr	80.7	118	90.5			26.8
SM 2120 B	Color (true)	100				1.62	
SM 2320 B-97	Total Alkalinity	104				0.222	
SM 2540 C-97	TDS					1.76	
SM 2540 D-97	TSS					13.7	
SM 4500 F-C-97	Fluoride	96.4	96.0	95.5			0.473
SM 5310 B-00	Organic Carbon	96.4	97.4	97.4			0.0307

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2124709
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2124709

Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2124709
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2124710
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2124710
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2124710
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2124710
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2124711
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2124717, 2124718, 2124719
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2124717, 2124718, 2124719
SM 2120 B / E31780	True Color measured at 450 nm	2124709
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2124709
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2124709
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2124709
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2124709
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2124710

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	10/03/2019			10/03/2019 16:10	Rosalyn Ballman	2124709
EPA 300.0 Rev. 2.1	10/03/2019			10/12/2019 09:03	Julia Storbeck	2124709
EPA 350.1 Rev. 2.0	10/03/2019			10/08/2019 14:24	Ping Hua	2124710
EPA 351.2 Rev. 2.0	10/03/2019	10/04/2019 14:15	Jhamieka S. Greenwood	10/07/2019 13:02	Virginia P. Brown	2124710
EPA 353.2 Rev. 2.0	10/03/2019			10/04/2019 12:07	Beverly Y. Sanders	2124710
EPA 365.1 Rev. 2.0	10/03/2019	10/04/2019 14:00	Vijayalakshmi Reddy	10/07/2019 11:44	Lipi Saha	2124710
EPA 365.1 Rev. 2.0 dissolved	10/03/2019			10/03/2019 16:18	Samantha Davila	2124711
EPA 8321B	10/03/2019	10/07/2019 10:30	Rebecca Ware	10/07/2019 12:49	Rebecca Ware	2124717
	10/03/2019	10/07/2019 10:30	Rebecca Ware	10/07/2019 13:00	Rebecca Ware	2124718
	10/03/2019	10/07/2019 10:30	Rebecca Ware	10/07/2019 13:11	Rebecca Ware	2124719
	10/03/2019	10/07/2019 10:30	Rebecca Ware	10/08/2019 11:47	Rebecca Ware	2124717
	10/03/2019	10/07/2019 10:30	Rebecca Ware	10/08/2019 12:01	Rebecca Ware	2124718
	10/03/2019	10/07/2019 10:30	Rebecca Ware	10/08/2019 12:15	Rebecca Ware	2124719
	10/03/2019	10/07/2019 10:30	Rebecca Ware	10/09/2019 12:25	Rebecca Ware	2124717
	10/03/2019	10/07/2019 10:30	Rebecca Ware	10/09/2019 12:37	Rebecca Ware	2124718
	10/03/2019	10/07/2019 10:30	Rebecca Ware	10/09/2019 12:48	Rebecca Ware	2124719
	10/03/2019	10/09/2019 09:00	Hoor Shaik	10/09/2019 16:35	Juyoung Kim	2124717
	10/03/2019	10/09/2019 09:00	Hoor Shaik	10/09/2019 17:10	Juyoung Kim	2124718
	10/03/2019	10/09/2019 09:00	Hoor Shaik	10/09/2019 17:45	Juyoung Kim	2124719
SM 2120 B	10/03/2019			10/03/2019 17:31	Madeline Funaro	2124709
SM 2320 B-97	10/03/2019			10/09/2019 06:47	Dale L. Simmons	2124709
SM 2540 C-97	10/03/2019			10/04/2019 20:17	Rosalyn Ballman	2124709
SM 2540 D-97	10/03/2019			10/04/2019 20:17	Rosalyn Ballman	2124709
SM 4500 F-C-97	10/03/2019			10/09/2019 06:47	Dale L. Simmons	2124709
SM 5310 B-00	10/03/2019			10/05/2019 10:00	Madeline Funaro	2124710