

Chemical Analysis Report

SW-DIST-2019-02-27-01

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

Event Description: **SMP - Gap Cr, Nonsense, Braden, Rattlesnake, Cedar**
Request ID: **RQ-2019-02-25-18**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 19-MAR-2019 09:46

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first name.

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: GAP CREEK AT 37TH ST. EAST

Collection Date/Time: 02/26/2019 11:10

Field ID: G2SW0110

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065661	EPA 180.1 Rev. 2.0	Turbidity	4.5		NTU	P359636	
	EPA 300.0 Rev. 2.1	Chloride	58		mg Cl/L	P360202	
		Sulfate	110		mg SO4/L	P360207	
	SM 2120 B	Color (true)	57		PCU	P359667	
	SM 2320 B-97	Total Alkalinity	174		mg CaCO3/L	P360159	
	SM 2540 C-97	TDS	454	A	mg/L	P360082	
	SM 2540 D-97	TSS	4	IA	mg/L	P359986	
2065665	SM 4500 F-C-97	Fluoride	0.63		mg F/L	P360162	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.034		mg N/L	P359942	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.79		mg N/L	P359796	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P359736	
	EPA 365.1 Rev. 2.0	Total-P	0.43		mg P/L	P359706	
2065669	SM 5310 B-00	Organic Carbon	13		mg C/L	P359863	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.29		mg P/L	P359645	
2065692	EPA 8321B	2,4-D	0.0077	I	ug/L	P359578	
		Acesulfame K**	0.15	I	ug/L	P359544	
		AMPA**	1.5		ug/L	P359544	MS
		Sucralose**	0.44		ug/L	P359544	
		Acetaminophen**	0.0080	U	ug/L	P359578	
		Endothall**	0.25	U	ug/L	P359544	
		Glufosinate**	0.10	U	ug/L	P359544	
		Bentazon	0.023		ug/L	P359578	
		Glyphosate**	8.0		ug/L	P359544	
		Carbamazepine**	0.0011	I	ug/L	P359578	
		Diuron	0.0061	I	ug/L	P359578	
		Fenuron	0.016	UJ	ug/L	P359578	LCS
		Fluridone**	1.1		ug/L	P359578	
		Imazapyr**	0.43		ug/L	P359578	
		Hydrocodone**	0.0020	U	ug/L	P359578	
		Ibuprofen**	0.020	U	ug/L	P359578	
		Imidacloprid	0.0083		ug/L	P359578	
		Linuron	0.0040	U	ug/L	P359578	
		MCP	0.0035	I	ug/L	P359578	
		Naproxen**	0.0080	U	ug/L	P359578	
		Primidone**	0.0040	U	ug/L	P359578	
		Pyraclostrobin**	0.0020	U	ug/L	P359578	MS, RPD
		Triclopyr**	0.0040	U	ug/L	P359578	

Ref. Method and Comment:

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

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

Sample Location: GAP CREEK @ 45TH ST

Collection Date/Time: 02/26/2019 11:35

Field ID: G2SW0030

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065662	EPA 180.1 Rev. 2.0	Turbidity	3.5		NTU	P359637	
	EPA 300.0 Rev. 2.1	Chloride	51		mg Cl/L	P360202	
		Sulfate	110		mg SO4/L	P360207	
	SM 2120 B	Color (true)	55	A	PCU	P359668	
	SM 2320 B-97	Total Alkalinity	175		mg CaCO3/L	P360159	
	SM 2540 C-97	TDS	431		mg/L	P360082	
	SM 2540 D-97	TSS	2	I	mg/L	P359986	
	SM 4500 F-C-97	Fluoride	0.62		mg F/L	P360162	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.050		mg N/L	P359942	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.92		mg N/L	P359796	
2065666	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P359736	
	EPA 365.1 Rev. 2.0	Total-P	0.41		mg P/L	P359706	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P359952	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.30		mg P/L	P359645	
	EPA 8321B	2,4-D	0.0088		ug/L	P359578	
2065693		Acesulfame K**	0.10	U	ug/L	P359544	
		AMPA**	1.6		ug/L	P359544	MS
		Sucralose**	0.46		ug/L	P359544	
		Acetaminophen**	0.0080	U	ug/L	P359578	
		Endothall**	0.25	U	ug/L	P359544	
		Glufosinate**	0.10	U	ug/L	P359544	
		Bentazon	0.050		ug/L	P359578	
		Glyphosate**	8.5		ug/L	P359544	
		Carbamazepine**	0.0010	I	ug/L	P359578	
		Diuron	0.0062	I	ug/L	P359578	
		Fenuron	0.016	UJ	ug/L	P359578	LCS
		Fluridone**	1.3		ug/L	P359578	
		Imazapyr**	0.58		ug/L	P359578	
		Hydrocodone**	0.0020	U	ug/L	P359578	
		Ibuprofen**	0.020	U	ug/L	P359578	
		Imidacloprid	0.020		ug/L	P359578	
		Linuron	0.0040	U	ug/L	P359578	
		MCP	0.0038	I	ug/L	P359578	
		Naproxen**	0.0080	U	ug/L	P359578	
		Primidone**	0.0040	U	ug/L	P359578	
		Pyraclostrobin**	0.0020	U	ug/L	P359578	MS, RPD
		Triclopyr**	0.0040	U	ug/L	P359578	

Ref. Method and Comment:

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

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

Sample Location: NONSENSE @ TARA PRESERVE

Collection Date/Time: 02/26/2019 09:45

Field ID: G2SW0015

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065696	EPA 8321B	2,4-D	0.011		ug/L	P359578	
		Acesulfame K**	0.10	U	ug/L	P359544	
		AMPA**	0.50		ug/L	P359544	MS
		Sucralose**	0.15		ug/L	P359544	
		Acetaminophen**	0.0080	U	ug/L	P359578	
		Endothall**	0.25	U	ug/L	P359544	
		Glufosinate**	0.10	U	ug/L	P359544	
		Bentazon	0.034		ug/L	P359578	
		Glyphosate**	0.36	I	ug/L	P359544	
		Carbamazepine**	8.0E-04	U	ug/L	P359578	
		Diuron	0.0073	I	ug/L	P359578	
		Fenuron	0.016	UJ	ug/L	P359578	LCS
		Fluridone**	0.16		ug/L	P359578	
		Imazapyr**	0.40		ug/L	P359578	
		Hydrocodone**	0.0020	U	ug/L	P359578	
		Ibuprofen**	0.020	U	ug/L	P359578	
		Imidacloprid	0.023		ug/L	P359578	
		Linuron	0.0040	U	ug/L	P359578	
		MCPP	0.0020	U	ug/L	P359578	
		Naproxen**	0.0080	U	ug/L	P359578	
		Primidone**	0.0040	U	ug/L	P359578	
		Pyraclostrobin**	0.0020	U	ug/L	P359578	MS, RPD
		Triclopyr**	0.0040	U	ug/L	P359578	

Ref. Method and Comment:

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

Sample Location: BRADEN RIVER @ CYPRESS BEND PARK

Collection Date/Time: 02/26/2019 10:10

Field ID: G2SW0044

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065697	EPA 8321B	2,4-D	0.067		ug/L	P359578	
		Acesulfame K**	0.10	U	ug/L	P359544	
		AMPA**	0.41		ug/L	P359544	MS
		Sucralose**	4.4		ug/L	P359544	
		Acetaminophen**	0.0080	U	ug/L	P359578	
		Endothall**	0.25	U	ug/L	P359544	
		Glufosinate**	0.10	U	ug/L	P359544	
		Bentazon	0.045		ug/L	P359578	
		Glyphosate**	0.47		ug/L	P359544	
		Carbamazepine**	0.0061		ug/L	P359578	
		Diuron	0.0091		ug/L	P359578	
		Fenuron	0.016	UJ	ug/L	P359578	LCS
		Fluridone**	0.080		ug/L	P359578	
		Imazapyr**	0.40		ug/L	P359578	
		Hydrocodone**	0.0020	U	ug/L	P359578	
		Ibuprofen**	0.020	U	ug/L	P359578	
		Imidacloprid	0.028		ug/L	P359578	
		Linuron	0.0040	U	ug/L	P359578	
		MCPP	0.0024	I	ug/L	P359578	
		Naproxen**	0.0080	U	ug/L	P359578	
		Primidone**	0.025		ug/L	P359578	
		Pyraclostrobin**	0.0020	U	ug/L	P359578	MS, RPD
		Triclopyr**	0.0040	U	ug/L	P359578	

Ref. Method and Comment:

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

Sample Location: RATTLESNAKE SLOUGH @ LINDEN

Collection Date/Time: 02/26/2019 12:30

Field ID: G2SW0017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065698	EPA 8321B	2,4-D	0.015		ug/L	P359578	
		Acesulfame K**	0.10	U	ug/L	P359544	
		AMPA**	1.3		ug/L	P359544	MS
		Sucralose**	0.64		ug/L	P359544	
		Acetaminophen**	0.0080	U	ug/L	P359578	
		Endothall**	0.25	U	ug/L	P359544	
		Glufosinate**	0.10	U	ug/L	P359544	
		Bentazon	0.010		ug/L	P359578	
		Glyphosate**	8.1		ug/L	P359544	
		Carbamazepine**	8.4E-04	I	ug/L	P359578	
		Diuron	0.0041	I	ug/L	P359578	
		Fenuron	0.016	UJ	ug/L	P359578	LCS
		Fluridone**	2.2		ug/L	P359578	
		Imazapyr**	1.1		ug/L	P359578	
		Hydrocodone**	0.0020	U	ug/L	P359578	
		Ibuprofen**	0.020	U	ug/L	P359578	
		Imidacloprid	0.0076	I	ug/L	P359578	
		Linuron	0.0040	U	ug/L	P359578	
		MCP	0.0020	U	ug/L	P359578	
		Naproxen**	0.0080	U	ug/L	P359578	
		Primidone**	0.0040	U	ug/L	P359578	
		Pyraclostrobin**	0.0020	U	ug/L	P359578	MS, RPD
		Triclopyr**	0.0040	U	ug/L	P359578	

Ref. Method and Comment:

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

Sample Location: CEDAR CREEK @ SADDLEHORN

Collection Date/Time: 02/26/2019 10:50

Field ID: G2SW0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065699	EPA 8321B	2,4-D	0.024		ug/L	P359578	
		Acesulfame K**	0.10	U	ug/L	P359544	
		AMPA**	0.62		ug/L	P359544	MS
		Sucralose**	0.040	I	ug/L	P359544	
		Acetaminophen**	0.0080	U	ug/L	P359578	
		Endothall**	0.25	U	ug/L	P359544	
		Glufosinate**	0.10	U	ug/L	P359544	
		Bentazon	0.057		ug/L	P359578	
		Glyphosate**	0.40		ug/L	P359544	
		Carbamazepine**	8.0E-04	U	ug/L	P359578	
		Diuron	0.0020	U	ug/L	P359578	
		Fenuron	0.023	IJ	ug/L	P359578	LCS
		Fluridone**	0.50		ug/L	P359578	
		Imazapyr**	0.18		ug/L	P359578	
		Hydrocodone**	0.0020	U	ug/L	P359578	
		Ibuprofen**	0.020	U	ug/L	P359578	
		Imidacloprid	0.020		ug/L	P359578	
		Linuron	0.0040	U	ug/L	P359578	
		MCPP	0.0020	U	ug/L	P359578	
		Naproxen**	0.0080	U	ug/L	P359578	
		Primidone**	0.0040	U	ug/L	P359578	
		Pyraclostrobin**	0.0020	U	ug/L	P359578	MS, RPD
		Triclopyr**	0.0040	U	ug/L	P359578	

Ref. Method and Comment:

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

Sample Location: GAP CREEK @ 45TH ST

Collection Date/Time: 02/26/2019 11:40

Field ID: G2SW0030_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065663	EPA 180.1 Rev. 2.0	Turbidity	3.6		NTU	P359637	
	EPA 300.0 Rev. 2.1	Chloride	52		mg Cl/L	P360202	
		Sulfate	110		mg SO4/L	P360207	
	SM 2120 B	Color (true)	54		PCU	P359668	
	SM 2320 B-97	Total Alkalinity	177		mg CaCO3/L	P360160	
	SM 2540 C-97	TDS	420		mg/L	P360082	
	SM 2540 D-97	TSS	2	I	mg/L	P359986	
	SM 4500 F-C-97	Fluoride	0.61		mg F/L	P360163	
2065667	EPA 350.1 Rev. 2.0	Ammonia-N	0.051		mg N/L	P359942	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.85		mg N/L	P359796	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P359736	
	EPA 365.1 Rev. 2.0	Total-P	0.42		mg P/L	P359706	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P359952	
2065671	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.29		mg P/L	P359645	
2065694	EPA 8321B	2,4-D	0.0091		ug/L	P359578	
		Acesulfame K**	0.10	U	ug/L	P359544	
		AMPA**	1.6		ug/L	P359544	MS
		Sucralose**	0.48		ug/L	P359544	
		Acetaminophen**	0.0080	U	ug/L	P359578	
		Endothall**	0.25	U	ug/L	P359544	
		Glufosinate**	0.10	U	ug/L	P359544	
		Bentazon	0.050		ug/L	P359578	
		Glyphosate**	7.8		ug/L	P359544	
		Carbamazepine**	0.0011	I	ug/L	P359578	
		Diuron	0.0066	I	ug/L	P359578	
		Fenuron	0.016	UJ	ug/L	P359578	LCS
		Fluridone**	1.4		ug/L	P359578	
		Imazapyr**	0.61		ug/L	P359578	
		Hydrocodone**	0.0020	U	ug/L	P359578	
		Ibuprofen**	0.020	U	ug/L	P359578	
		Imidacloprid	0.021		ug/L	P359578	
		Linuron	0.0040	U	ug/L	P359578	
		MCP	0.0036	I	ug/L	P359578	
		Naproxen**	0.0080	U	ug/L	P359578	
		Primidone**	0.0040	U	ug/L	P359578	
		Pyraclostrobin**	0.0020	U	ug/L	P359578	MS, RPD
		Triclopyr**	0.0040	U	ug/L	P359578	

Ref. Method and Comment:

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

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

Sample Location: FIELD

Collection Date/Time: 02/26/2019 12:20

Field ID: FB 02262019

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2065664	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P359637	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P360202	
		Sulfate	0.20	U	mg SO4/L	P360207	
	SM 2120 B	Color (true)	2.5	U	PCU	P359668	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P360160	
	SM 2540 C-97	TDS	15	U	mg/L	P360079	
	SM 2540 D-97	TSS	2	U	mg/L	P359983	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P360163	
2065668	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P359942	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P359796	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P359737	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P359706	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P359863	
2065672	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P359645	
2065695	EPA 8321B	2,4-D	0.0020	U	ug/L	P359578	
		Acesulfame K**	0.10	U	ug/L	P359544	
		AMPA**	0.10	U	ug/L	P359544	MS
		Sucralose**	0.010	U	ug/L	P359544	
		Acetaminophen**	0.0080	U	ug/L	P359578	
		Endothall**	0.25	U	ug/L	P359544	
		Glufosinate**	0.10	U	ug/L	P359544	
		Bentazon	8.0E-04	U	ug/L	P359578	
		Glyphosate**	0.10	U	ug/L	P359544	
		Carbamazepine**	8.0E-04	U	ug/L	P359578	
		Diuron	0.0020	U	ug/L	P359578	
		Fenuron	0.016	UJ	ug/L	P359578	LCS
		Fluridone**	8.0E-04	U	ug/L	P359578	
		Imazapyr**	0.0040	U	ug/L	P359578	
		Hydrocodone**	0.0020	U	ug/L	P359578	
		Ibuprofen**	0.020	U	ug/L	P359578	
		Imidacloprid	0.0020	U	ug/L	P359578	
		Linuron	0.0040	U	ug/L	P359578	
		MCPP	0.0020	U	ug/L	P359578	
		Naproxen**	0.0080	U	ug/L	P359578	
		Primidone**	0.0040	U	ug/L	P359578	
		Pyraclostrobin**	0.0020	U	ug/L	P359578	MS, RPD
		Triclopyr**	0.0040	U	ug/L	P359578	

Ref. Method and Comment:

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

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: P359636

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359637

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360202

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360207

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359942

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359796

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359736

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359737

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359706

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359645

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

Reference Method: EPA 8321B
Batch ID: P359544

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: EPA 8321B
Batch ID: P359578

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: SM 2120 B
Batch ID: P359667

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P359668

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P360159

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P360160

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

Reference Method: SM 2540 C-97
Batch ID: P360079

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P360082

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P359983

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P359986

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P360162

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P360163

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P359863

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

Reference Method: SM 5310 B-00
Batch ID: P359952

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: P360202

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360207

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359942

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	93.1		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359796

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: P359736

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359737

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: P359706

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359645

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.4		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P359544

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	107		P	40 - 150
AMPA	67.9		P	40 - 150
Endothall	104		P	40 - 150
Glufosinate	112		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P359544

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	105		P	40 - 140
Sucralose	107		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P359578

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	75.0		P	40 - 150
Acetaminophen	97.0		P	30 - 150
Bentazon	99.5		P	30 - 150
Carbamazepine	86.0		P	40 - 150
Diuron	84.3		P	40 - 150
Fenuron	158		F	40 - 150
Fluridone	112		P	40 - 150
Hydrocodone	107		P	40 - 150
Ibuprofen	77.0		P	40 - 150
Imazapyr	104		P	40 - 150
Imidacloprid	102		P	40 - 150
Linuron	87.0		P	40 - 150
MCPP	83.4		P	40 - 150
Naproxen	62.2		P	40 - 150
Primidone	103		P	40 - 150
Pyraclostrobin	75.9		P	40 - 150
Triclopyr	53.7		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P359667

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	85 - 115

Reference Method: SM 2120 B
Batch ID: P359668

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P360159

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

Reference Method: SM 2320 B-97
Batch ID: P360160

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P360162

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

Reference Method: SM 4500 F-C-97
Batch ID: P360163

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.8		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P359863

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	91.5		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P359952

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360202

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065633	Chloride	102		P	90 - 110
2065714	Chloride	99.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360207

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065633	Sulfate	102		P	90 - 110
2065714	Sulfate	99.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359942

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065636	Ammonia-N	92.1	98.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359796

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065636	Kjeldahl Nitrogen	99.4	97.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359736

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065601	NO2NO3-N	99.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359737

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065710	NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359706

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065665	Total-P	96.3	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359645

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065637	O-Phosphate-P	96.5	97.7	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P359544

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065519	Acesulfame K	65.7	66.2	P/P	40 - 150
2065519	AMPA	37.3	48.7	F/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P359544

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065519	Endothall	99.6	110	P/P	40 - 150
2065519	Glufosinate	75.1	72.6	P/P	40 - 150
2065519	Glyphosate	63.6	87.0	P/P	40 - 140
2065519	Sucralose	120	109	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P359578

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065730	2,4-D	72.2	81.1	P/P	40 - 150
2065730	Acetaminophen	92.9	97.5	P/P	30 - 150
2065730	Bentazon	60.8	62.8	P/P	30 - 150
2065730	Carbamazepine	64.4	62.1	P/P	40 - 150
2065730	Diuron	43.7	42.2	P/P	40 - 150
2065730	Fenuron	93.0	78.9	P/P	40 - 150
2065730	Fluridone	89.6	84.6	P/P	40 - 150
2065730	Hydrocodone	85.8	85.3	P/P	40 - 150
2065730	Ibuprofen	57.4	48.5	P/P	40 - 150
2065730	Imazapyr	95.2	97.5	P/P	40 - 150
2065730	Imidacloprid	128	120	P/P	40 - 150
2065730	Linuron	57.4	52.7	P/P	40 - 150
2065730	MCPP	97.3	107	P/P	40 - 150
2065730	Naproxen	48.7	50.1	P/P	40 - 150
2065730	Primidone	84.5	81.9	P/P	40 - 150
2065730	Pyraclostrobin	57.8	28.7	P/F	40 - 150
2065730	Triclopyr	47.6	50.7	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P360162

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2066000	Fluoride	96.3	96.3	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P360163

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065779	Fluoride	101	101	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P359863

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065466	Organic Carbon	93.2	93.2	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P359952

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2065710	Organic Carbon	93.4	96.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359636

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065634	Turbidity	3.26	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P359637

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065714	Turbidity	9.66	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360202

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065714	Chloride	0.568	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P360207

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065714	Sulfate	0.906	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359942

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065636	Ammonia-N	5.62	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359796

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065636	Kjeldahl Nitrogen	1.28	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359736

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065601	NO2NO3-N	0.185	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359737

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065710	NO2NO3-N	0.487	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359706

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065665	Total-P	2.24	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P359645

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065637	O-Phosphate-P	1.24	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P359544

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065519	Acesulfame K	0.768	Spike	P	0 - 30
2065519	AMPA	17.5	Spike	P	0 - 30
2065519	Endothall	9.78	Spike	P	0 - 30
2065519	Glufosinate	3.37	Spike	P	0 - 30
2065519	Glyphosate	22.2	Spike	P	0 - 30
2065519	Sucralose	8.43	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P359578

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065730	2,4-D	9.41	Spike	P	0 - 30
2065730	Acetaminophen	4.84	Spike	P	0 - 30
2065730	Bentazon	3.04	Spike	P	0 - 30
2065730	Carbamazepine	3.66	Spike	P	0 - 30
2065730	Diuron	1.31	Spike	P	0 - 30
2065730	Fenuron	16.5	Spike	P	0 - 30
2065730	Fluridone	3.61	Spike	P	0 - 30
2065730	Hydrocodone	0.560	Spike	P	0 - 30
2065730	Ibuprofen	16.8	Spike	P	0 - 30
2065730	Imazapyr	1.80	Spike	P	0 - 30
2065730	Imidacloprid	1.79	Spike	P	0 - 30
2065730	Linuron	8.44	Spike	P	0 - 30
2065730	MCPP	9.20	Spike	P	0 - 30
2065730	Naproxen	2.87	Spike	P	0 - 30
2065730	Primidone	3.18	Spike	P	0 - 30
2065730	Pyraclostrobin	67.2	Spike	F	0 - 30
2065730	Triclopyr	6.23	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P359667

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065633	Color (true)	0.444	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P359668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065662	Color (true)	2.14	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P360159

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2066000	Total Alkalinity	0.803	Sample	P	0 - 1.6

Reference Method: SM 2320 B-97
Batch ID: P360160

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065779	Total Alkalinity	0.576	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P360079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065388	TDS	2.68	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P360082

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065661	TDS	5.73	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P360162

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2066000	Fluoride	0.0	Spike	P	0 - 3.5

Reference Method: SM 4500 F-C-97
Batch ID: P360163

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065779	Fluoride	0.0	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P359863

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065466	Organic Carbon	0.0839	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 5310 B-00
Batch ID: P359952

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2065710	Organic Carbon	1.59	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: 2065692
Field Sample ID: G2SW0110

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	69.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	55.3	P	30 - 160
EPA 8321B	Diuron-d6	56.5	P	30 - 160
EPA 8321B	Endothall-d6	127	P	30 - 160
EPA 8321B	Endothall-d6	127	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.0	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	93.0	P	40 - 160
EPA 8321B	Ibuprofen-d3	82.1	P	30 - 160
EPA 8321B	Primidone-d5	89.0	P	30 - 160
EPA 8321B	Sucralose-d6	79.4	P	40 - 160
EPA 8321B	Sucralose-d6	79.4	P	40 - 160

Lab Sample ID: 2065693
Field Sample ID: G2SW0030

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	98.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	114	P	30 - 160
EPA 8321B	Carbamazepine-d10	66.4	P	30 - 160
EPA 8321B	Diuron-d6	69.3	P	30 - 160
EPA 8321B	Endothall-d6	122	P	30 - 160
EPA 8321B	Endothall-d6	122	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.7	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	96.7	P	40 - 160
EPA 8321B	Ibuprofen-d3	96.7	P	30 - 160
EPA 8321B	Primidone-d5	94.3	P	30 - 160
EPA 8321B	Sucralose-d6	82.2	P	40 - 160
EPA 8321B	Sucralose-d6	82.2	P	40 - 160

Lab Sample ID: 2065694
Field Sample ID: G2SW0030_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	121	P	30 - 160
EPA 8321B	Carbamazepine-d10	70.8	P	30 - 160
EPA 8321B	Diuron-d6	70.7	P	30 - 160
EPA 8321B	Endothall-d6	128	P	30 - 160
EPA 8321B	Endothall-d6	128	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	89.7	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	89.7	P	40 - 160
EPA 8321B	Ibuprofen-d3	95.9	P	30 - 160
EPA 8321B	Primidone-d5	102	P	30 - 160
EPA 8321B	Sucralose-d6	79.9	P	40 - 160
EPA 8321B	Sucralose-d6	79.9	P	40 - 160

Lab Sample ID: 2065695
Field Sample ID: FB 02262019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	60.5	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2065695
Field Sample ID: FB 02262019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	93.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	79.2	P	30 - 160
EPA 8321B	Diuron-d6	79.5	P	30 - 160
EPA 8321B	Endothall-d6	111	P	30 - 160
EPA 8321B	Endothall-d6	111	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	40 - 160
EPA 8321B	Ibuprofen-d3	84.7	P	30 - 160
EPA 8321B	Primidone-d5	94.1	P	30 - 160
EPA 8321B	Sucralose-d6	83.5	P	40 - 160
EPA 8321B	Sucralose-d6	83.5	P	40 - 160

Lab Sample ID: 2065696
Field Sample ID: G2SW0015

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	86.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.1	P	30 - 160
EPA 8321B	Diuron-d6	65.7	P	30 - 160
EPA 8321B	Endothall-d6	116	P	30 - 160
EPA 8321B	Endothall-d6	116	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	87.0	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	87.0	P	40 - 160
EPA 8321B	Ibuprofen-d3	92.4	P	30 - 160
EPA 8321B	Primidone-d5	87.2	P	30 - 160
EPA 8321B	Sucralose-d6	83.8	P	40 - 160
EPA 8321B	Sucralose-d6	83.8	P	40 - 160

Lab Sample ID: 2065697
Field Sample ID: G2SW0044

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	82.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	65.3	P	30 - 160
EPA 8321B	Diuron-d6	66.6	P	30 - 160
EPA 8321B	Endothall-d6	121	P	30 - 160
EPA 8321B	Endothall-d6	121	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	83.7	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	83.7	P	40 - 160
EPA 8321B	Ibuprofen-d3	92.5	P	30 - 160
EPA 8321B	Primidone-d5	90.7	P	30 - 160
EPA 8321B	Sucralose-d6	79.4	P	40 - 160
EPA 8321B	Sucralose-d6	79.4	P	40 - 160

Lab Sample ID: 2065698
Field Sample ID: G2SW0017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	98.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	118	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2065698
Field Sample ID: G2SW0017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbamazepine-d10	66.9	P	30 - 160
EPA 8321B	Diuron-d6	67.1	P	30 - 160
EPA 8321B	Endothall-d6	150	P	30 - 160
EPA 8321B	Endothall-d6	150	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	115	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	115	P	40 - 160
EPA 8321B	Ibuprofen-d3	99.7	P	30 - 160
EPA 8321B	Primidone-d5	101	P	30 - 160
EPA 8321B	Sucralose-d6	82.1	P	40 - 160
EPA 8321B	Sucralose-d6	82.1	P	40 - 160

Lab Sample ID: 2065699
Field Sample ID: G2SW0018

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	94.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	111	P	30 - 160
EPA 8321B	Carbamazepine-d10	65.3	P	30 - 160
EPA 8321B	Diuron-d6	65.1	P	30 - 160
EPA 8321B	Endothall-d6	134	P	30 - 160
EPA 8321B	Endothall-d6	134	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	87.8	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	87.8	P	40 - 160
EPA 8321B	Ibuprofen-d3	85.5	P	30 - 160
EPA 8321B	Primidone-d5	96.2	P	30 - 160
EPA 8321B	Sucralose-d6	99.7	P	40 - 160
EPA 8321B	Sucralose-d6	99.7	P	40 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A89702

Included Lab Sample IDs: 2065661, 2065662, 2065663, 2065664

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A89703

Included Lab Sample IDs: 2065669, 2065670, 2065671, 2065672

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	96.1	94.7	P/P	90 - 110
O-Phosphate-P	96.3	96.1	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A89714

Included Lab Sample IDs: 2065661, 2065662, 2065663, 2065664

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	101	P/P	90 - 115
Color (true)	101	102	P/P	90 - 115

Reference Method: EPA 8321B

Run ID: A89717

Included Lab Sample IDs: 2065692, 2065693, 2065694, 2065695, 2065696, 2065697, 2065698, 2065699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	83.9	97.0	P/P	50 - 150
2,4-D	94.8	83.9	P/P	50 - 150
Acetaminophen	116	119	P/P	60 - 160
Acetaminophen	119	122	P/P	60 - 160
Bentazon	87.5	91.3	P/P	50 - 160
Bentazon	91.3	92.8	P/P	50 - 160
Carbamazepine	105	106	P/P	60 - 150
Carbamazepine	105	105	P/P	60 - 150
Diuron	110	116	P/P	60 - 150
Diuron	112	110	P/P	60 - 150
Fenuron	113	114	P/P	60 - 150
Fenuron	114	113	P/P	60 - 150
Fluridone	113	110	P/P	60 - 160
Hydrocodone	108	108	P/P	60 - 150
Hydrocodone	108	111	P/P	60 - 150
Ibuprofen	89.7	96.0	P/P	50 - 160
Ibuprofen	96.0	96.3	P/P	50 - 160
Imazapyr	100	99.6	P/P	50 - 150
Imazapyr	102	100	P/P	50 - 150
Imidacloprid	109	97.9	P/P	60 - 150
Imidacloprid	97.9	97.6	P/P	60 - 150
Linuron	109	110	P/P	60 - 150
Linuron	110	116	P/P	60 - 150
MCPP	88.0	87.7	P/P	50 - 150
MCPP	89.3	88.0	P/P	50 - 150
Naproxen	76.9	97.6	P/P	50 - 160
Naproxen	97.6	103	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A89717

Included Lab Sample IDs: 2065692, 2065693, 2065694, 2065695, 2065696, 2065697, 2065698, 2065699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Primidone	104	105	P/P	60 - 150
Primidone	105	104	P/P	60 - 150
Pyraclostrobin	102	102	P/P	60 - 150
Pyraclostrobin	102	101	P/P	60 - 150
Triclopyr	94.7	102	P/P	50 - 150
Triclopyr	95.4	94.7	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A89725

Included Lab Sample IDs: 2065665, 2065666, 2065667, 2065668

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	102	P/P	90 - 110
NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A89739

Included Lab Sample IDs: 2065692, 2065693, 2065694, 2065695, 2065696, 2065697, 2065698, 2065699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	71.8	73.0	P/P	60 - 160
AMPA	73.0	85.8	P/P	60 - 160
Glufosinate	119	115	P/P	60 - 160
Glufosinate	121	119	P/P	60 - 160
Glyphosate	116	124	P/P	60 - 160
Glyphosate	124	113	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A89751

Included Lab Sample IDs: 2065665, 2065666, 2065667

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	100	P/P	90 - 110
Total-P	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A89755

Included Lab Sample IDs: 2065668

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

Reference Method: EPA 8321B

Run ID: A89762

Included Lab Sample IDs: 2065692, 2065693, 2065694, 2065695, 2065696, 2065697, 2065698, 2065699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	120	116	P/P	60 - 160
Sucralose	124	120	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A89772

Included Lab Sample IDs: 2065665, 2065666, 2065667, 2065668

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.2	102	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A89781

Included Lab Sample IDs: 2065692, 2065693, 2065694, 2065698, 2065699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluridone	108	108	P/P	60 - 160
Imazapyr	108	99.5	P/P	50 - 150

Reference Method: SM 5310 B-00

Run ID: A89791

Included Lab Sample IDs: 2065665, 2065668

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	90.0	92.1	P/P	90 - 110
Organic Carbon	91.4	90.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A89814

Included Lab Sample IDs: 2065665, 2065666, 2065667, 2065668

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	105	P/P	90 - 110
Ammonia-N	105	104	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A89821

Included Lab Sample IDs: 2065692, 2065693, 2065694, 2065695, 2065696, 2065697, 2065698, 2065699

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	107	97.0	P/P	60 - 160
Acesulfame K	97.0	63.4	P/P	60 - 160
Endothall	101	71.2	P/P	60 - 160
Endothall	101	101	P/P	60 - 160

Reference Method: SM 5310 B-00

Run ID: A89824

Included Lab Sample IDs: 2065666, 2065667

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.6	91.8	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A89885

Included Lab Sample IDs: 2065661, 2065662, 2065663, 2065664

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

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A89907

Included Lab Sample IDs: 2065661, 2065662, 2065663, 2065664

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	100	P/P	90 - 110
Total Alkalinity	98.9	102	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A89907

Included Lab Sample IDs: 2065661, 2065662, 2065663, 2065664

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.1	98.1	P/P	90 - 110
Fluoride	98.6	98.1	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					3.26	
	Turbidity					9.66	
EPA 300.0 Rev. 2.1	Chloride	103	99.8	102		0.568	
	Sulfate	103	99.4	102		0.906	
EPA 350.1 Rev. 2.0	Ammonia-N	93.1	92.1	98.1			5.62
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	99.4	97.8			1.28
EPA 353.2 Rev. 2.0	NO2NO3-N	102	99.8				0.185
	NO2NO3-N	102	103	102			0.487
EPA 365.1 Rev. 2.0	Total-P	105	96.3	101			2.24
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.4	96.5	97.7			1.24
EPA 8321B	2,4-D	75.0	72.2	81.1			9.41
	Acesulfame K	107	65.7	66.2			0.768
	Acetaminophen	97.0	92.9	97.5			4.84
	AMPA	67.9	37.3	48.7			17.5
	Bentazon	99.5	60.8	62.8			3.04
	Carbamazepine	86.0	64.4	62.1			3.66
	Diuron	84.3	43.7	42.2			1.31
	Endothall	104	99.6	110			9.78
	Fenuron	158	93.0	78.9			16.5
	Fluridone	112	89.6	84.6			3.61
	Glufosinate	112	75.1	72.6			3.37
	Glyphosate	105	63.6	87.0			22.2
	Hydrocodone	107	85.8	85.3			0.560
	Ibuprofen	77.0	57.4	48.5			16.8
	Imazapyr	104	95.2	97.5			1.80
	Imidacloprid	102	128	120			1.79
	Linuron	87.0	57.4	52.7			8.44
	MCPP	83.4	97.3	107			9.20
	Naproxen	62.2	48.7	50.1			2.87
	Primidone	103	84.5	81.9			3.18
	Pyraclostrobin	75.9	57.8	28.7			67.2
	Sucralose	107	120	109			8.43
	Triclopyr	53.7	47.6	50.7			6.23
SM 2120 B	Color (true)	101				0.444	
	Color (true)	102				2.14	
SM 2320 B-97	Total Alkalinity	102				0.803	
	Total Alkalinity	102				0.576	
SM 2540 C-97	TDS					2.68	
	TDS					5.73	
SM 4500 F-C-97	Fluoride	93.9	96.3	96.3			0.0
	Fluoride	94.8	101	101			0.0
SM 5310 B-00	Organic Carbon	91.5	93.2	93.2			0.0839
	Organic Carbon	94.1	93.4	96.2			1.59

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2065661, 2065662, 2065663, 2065664
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2065661, 2065662, 2065663, 2065664
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2065661, 2065662, 2065663, 2065664

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2065665, 2065666, 2065667, 2065668
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2065665, 2065666, 2065667, 2065668
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2065665, 2065666, 2065667, 2065668
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2065665, 2065666, 2065667, 2065668
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2065669, 2065670, 2065671, 2065672
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2065692, 2065693, 2065694, 2065695, 2065696, 2065697, 2065698, 2065699
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2065692, 2065693, 2065694, 2065695, 2065696, 2065697, 2065698, 2065699
SM 2120 B / E31780	True Color measured at 450 nm	2065661, 2065662, 2065663, 2065664
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2065661, 2065662, 2065663, 2065664
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2065661, 2065662, 2065663, 2065664
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2065661, 2065662, 2065663, 2065664
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2065661, 2065662, 2065663, 2065664
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2065665, 2065666, 2065667, 2065668

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	02/27/2019			02/27/2019 17:05	Adrian Shelby	2065661, 2065662, 2065663, 2065664
EPA 300.0 Rev. 2.1	02/27/2019			03/09/2019 02:00	Lipi Saha	2065661
	02/27/2019			03/09/2019 02:14	Lipi Saha	2065662
	02/27/2019			03/09/2019 02:29	Lipi Saha	2065663
	02/27/2019			03/09/2019 02:44	Lipi Saha	2065664
EPA 350.1 Rev. 2.0	02/27/2019			03/05/2019 12:40	Ping Hua	2065665
	02/27/2019			03/05/2019 12:48	Ping Hua	2065666
	02/27/2019			03/05/2019 12:49	Ping Hua	2065667
	02/27/2019			03/05/2019 12:58	Ping Hua	2065668
EPA 351.2 Rev. 2.0	02/27/2019	03/01/2019 14:15	Adrian Shelby	03/04/2019 13:19	Joseph Suarez	2065665
	02/27/2019	03/01/2019 14:15	Adrian Shelby	03/04/2019 13:20	Joseph Suarez	2065666
	02/27/2019	03/01/2019 14:15	Adrian Shelby	03/04/2019 13:22	Joseph Suarez	2065667
	02/27/2019	03/01/2019 14:15	Adrian Shelby	03/04/2019 13:23	Joseph Suarez	2065668
EPA 353.2 Rev. 2.0	02/27/2019			02/28/2019 12:13	Beverly Y. Sanders	2065665
	02/27/2019			02/28/2019 12:15	Beverly Y. Sanders	2065666
	02/27/2019			02/28/2019 12:16	Beverly Y. Sanders	2065667
	02/27/2019			02/28/2019 12:29	Beverly Y. Sanders	2065668
EPA 365.1 Rev. 2.0	02/27/2019	02/28/2019 13:00	Sima Feizi	03/01/2019 15:08	Rosalyn Ballman	2065665
	02/27/2019	02/28/2019 13:00	Sima Feizi	03/01/2019 15:18	Rosalyn Ballman	2065666
	02/27/2019	02/28/2019 13:00	Sima Feizi	03/01/2019 15:19	Rosalyn Ballman	2065667
	02/27/2019	02/28/2019 13:00	Sima Feizi	03/01/2019 16:51	Rosalyn Ballman	2065668
EPA 365.1 Rev. 2.0 dissolved	02/27/2019			02/27/2019 13:49	Jhamieka S. Greenwood	2065669
	02/27/2019			02/27/2019 13:50	Jhamieka S. Greenwood	2065670, 2065671
	02/27/2019			02/27/2019 14:04	Jhamieka S. Greenwood	2065672
EPA 8321B	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/01/2019 01:17	Juyoung Kim	2065692
	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/01/2019 02:27	Juyoung Kim	2065693
	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/01/2019 03:01	Juyoung Kim	2065694
	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/01/2019 03:36	Juyoung Kim	2065695
	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/01/2019 04:10	Juyoung Kim	2065696
	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/01/2019 04:45	Juyoung Kim	2065697
	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/01/2019 05:20	Juyoung Kim	2065698
	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/01/2019 05:54	Juyoung Kim	2065699
	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/05/2019 00:20	Juyoung Kim	2065692
	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/05/2019 00:54	Juyoung Kim	2065693
	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/05/2019 01:29	Juyoung Kim	2065694
	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/05/2019 02:04	Juyoung Kim	2065698
	02/27/2019	02/28/2019 10:00	Hoor Shaik	03/05/2019 02:38	Juyoung Kim	2065699
	02/27/2019	02/28/2019 14:00	Rebecca Ware	02/28/2019 19:41	Rebecca Ware	2065692
	02/27/2019	02/28/2019 14:00	Rebecca Ware	02/28/2019 19:52	Rebecca Ware	2065693
	02/27/2019	02/28/2019 14:00	Rebecca Ware	02/28/2019 20:03	Rebecca Ware	2065694

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	02/27/2019	02/28/2019 14:00	Rebecca Ware	02/28/2019 20:13	Rebecca Ware	2065695
	02/27/2019	02/28/2019 14:00	Rebecca Ware	02/28/2019 20:24	Rebecca Ware	2065696
	02/27/2019	02/28/2019 14:00	Rebecca Ware	02/28/2019 20:46	Rebecca Ware	2065697
	02/27/2019	02/28/2019 14:00	Rebecca Ware	02/28/2019 20:56	Rebecca Ware	2065698
	02/27/2019	02/28/2019 14:00	Rebecca Ware	02/28/2019 21:07	Rebecca Ware	2065699
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/01/2019 20:47	Rebecca Ware	2065692
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/01/2019 21:01	Rebecca Ware	2065693
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/01/2019 21:15	Rebecca Ware	2065694
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/01/2019 21:29	Rebecca Ware	2065695
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/01/2019 21:42	Rebecca Ware	2065696
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/01/2019 22:10	Rebecca Ware	2065697
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/01/2019 22:24	Rebecca Ware	2065698
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/01/2019 22:38	Rebecca Ware	2065699
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/03/2019 02:41	Mohammad Ghaffari	2065692
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/03/2019 02:54	Mohammad Ghaffari	2065693
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/03/2019 03:07	Mohammad Ghaffari	2065694
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/03/2019 03:20	Mohammad Ghaffari	2065695
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/03/2019 03:32	Mohammad Ghaffari	2065696
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/03/2019 03:58	Mohammad Ghaffari	2065697
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/03/2019 04:11	Mohammad Ghaffari	2065698
	02/27/2019	02/28/2019 14:00	Rebecca Ware	03/03/2019 04:23	Mohammad Ghaffari	2065699
SM 2120 B	02/27/2019			02/27/2019 16:33	Chelsea Hernandez	2065661
	02/27/2019			02/27/2019 16:38	Chelsea Hernandez	2065662, 2065663
	02/27/2019			02/27/2019 16:39	Chelsea Hernandez	2065664
SM 2320 B-97	02/27/2019			03/07/2019 18:34	Dale L. Simmons	2065661
	02/27/2019			03/07/2019 18:47	Dale L. Simmons	2065662
	02/27/2019			03/07/2019 22:40	Dale L. Simmons	2065663
	02/27/2019			03/07/2019 22:54	Dale L. Simmons	2065664
SM 2540 C-97	02/27/2019			03/01/2019 15:19	Yijie Li	2065661, 2065662, 2065663, 2065664
SM 2540 D-97	02/27/2019			03/01/2019 15:19	Yijie Li	2065661, 2065662, 2065663, 2065664
SM 4500 F-C-97	02/27/2019			03/07/2019 18:34	Dale L. Simmons	2065661
	02/27/2019			03/07/2019 18:47	Dale L. Simmons	2065662
	02/27/2019			03/07/2019 22:40	Dale L. Simmons	2065663
	02/27/2019			03/07/2019 22:54	Dale L. Simmons	2065664
SM 5310 B-00	02/27/2019			03/05/2019 01:28	Chelsea Hernandez	2065665
	02/27/2019			03/05/2019 02:09	Chelsea Hernandez	2065668
	02/27/2019			03/05/2019 05:45	Chelsea Hernandez	2065666
	02/27/2019			03/05/2019 05:59	Chelsea Hernandez	2065667