

Chemical Analysis Report

SW-DIST-2019-06-27-01

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

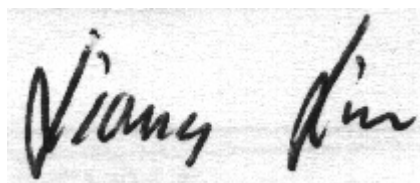
Event Description: **SMP - Gap Cr, Nonsense, Braden, Rattlesnake, Cedar**
Request ID: **RQ-2019-06-24-03**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater

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: 15-JUL-2019 15:40

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: GAP CREEK @ 45TH ST

Collection Date/Time: 06/26/2019 12:05

Field ID: G2SW0030

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2098794	EPA 180.1 Rev. 2.0	Turbidity	6.7		NTU	P366416	
	EPA 300.0 Rev. 2.1	Chloride	70		mg Cl/L	P366638	
		Sulfate	100		mg SO4/L	P366641	
	SM 2120 B	Color (true)	58		PCU	P366412	
	SM 2320 B-97	Total Alkalinity	170		mg CaCO3/L	P366736	
	SM 2540 C-97	TDS	470	A	mg/L	P366806	
	SM 2540 D-97	TSS	3	IA	mg/L	P366567	
	SM 4500 F-C-97	Fluoride	0.65		mg F/L	P366743	
2098798	EPA 350.1 Rev. 2.0	Ammonia-N	0.036		mg N/L	P366759	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P366448	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.059		mg N/L	P366723	
	EPA 365.1 Rev. 2.0	Total-P	0.56		mg P/L	P366449	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P366519	
2098802	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.37		mg P/L	P366456	
2098824	EPA 8321B	Acesulfame K**	0.10	U	ug/L	P366428	
		2,4-D	0.034		ug/L	P366199	MS
		AMPA**	2.4	I	ug/L	P366428	
		Sucralose**	0.26		ug/L	P366428	
		Endothall**	0.25	U	ug/L	P366428	
		Acetaminophen**	0.0080	U	ug/L	P366199	
		Glufosinate**	1.0	U	ug/L	P366428	
		Glyphosate**	3.2	I	ug/L	P366428	
		Bentazon	0.035		ug/L	P366199	
		Carbamazepine**	8.0E-04	U	ug/L	P366199	
		Diuron	0.065		ug/L	P366199	
		Fenuron	0.016	U	ug/L	P366199	
		Fluridone**	2.4		ug/L	P366199	
		Imazapyr**	0.83		ug/L	P366199	MS
		Hydrocodone**	0.0020	U	ug/L	P366199	
		Ibuprofen**	0.020	U	ug/L	P366199	
		Imidacloprid	0.022		ug/L	P366199	MS
		Linuron	0.0040	U	ug/L	P366199	
		MCP	0.0063	I	ug/L	P366199	MS
		Naproxen**	0.0080	U	ug/L	P366199	
		Primidone**	0.0040	U	ug/L	P366199	
		Pyraclostrobin**	0.0020	U	ug/L	P366199	
		Triclopyr**	0.0040	U	ug/L	P366199	

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.

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

EPA 8321B: MDL for some parameters elevated due to matrix interference.

Sample Location: GAP CREEK @ 37th ST. EAST

Collection Date/Time: 06/26/2019 11:35

Field ID: G2SW0110

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2098795	EPA 180.1 Rev. 2.0	Turbidity	3.3		NTU	P366416	
	EPA 300.0 Rev. 2.1	Chloride	52		mg Cl/L	P366761	
		Sulfate	100		mg SO4/L	P366763	
	SM 2120 B	Color (true)	57		PCU	P366412	
	SM 2320 B-97	Total Alkalinity	176		mg CaCO3/L	P366736	
	SM 2540 C-97	TDS	442		mg/L	P366806	
	SM 2540 D-97	TSS	2	U	mg/L	P366567	
	SM 4500 F-C-97	Fluoride	0.71		mg F/L	P366743	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.029		mg N/L	P366759	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P366470	
2098799	EPA 353.2 Rev. 2.0	NO2NO3-N	0.063		mg N/L	P366723	
	EPA 365.1 Rev. 2.0	Total-P	0.52		mg P/L	P366466	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P366519	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.38		mg P/L	P366456	
	dissolved						
2098825	EPA 8321B	Acesulfame K**	0.18	I	ug/L	P366428	
		2,4-D	0.028		ug/L	P366199	MS
		AMPA**	2.6	I	ug/L	P366428	
		Sucralose**	0.38		ug/L	P366428	
		Endothall**	0.25	U	ug/L	P366428	
		Acetaminophen**	0.0080	U	ug/L	P366199	
		Glufosinate**	1.0	U	ug/L	P366428	
		Glyphosate**	1.9	I	ug/L	P366428	
		Bentazon	0.029		ug/L	P366199	
		Carbamazepine**	0.0014	I	ug/L	P366199	
		Diuron	0.078		ug/L	P366199	
		Fenuron	0.016	U	ug/L	P366199	
		Fluridone**	1.6		ug/L	P366199	
		Imazapyr**	0.65		ug/L	P366199	MS
		Hydrocodone**	0.0020	U	ug/L	P366199	
		Ibuprofen**	0.020	U	ug/L	P366199	
		Imidacloprid	0.016		ug/L	P366199	MS
		Linuron	0.0040	U	ug/L	P366199	
		MCP	0.0057	I	ug/L	P366199	MS
		Naproxen**	0.0080	U	ug/L	P366199	
		Primidone**	0.0040	U	ug/L	P366199	
		Pyraclostrobin**	0.0020	U	ug/L	P366199	
		Triclopyr**	0.0040	U	ug/L	P366199	

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: MDL for some parameters elevated due to matrix interference.

Sample Location: GAP CREEK @ 37th ST. EAST

Collection Date/Time: 06/26/2019 11:40

Field ID: G2SW0110_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2098796	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P366416	
	EPA 300.0 Rev. 2.1	Chloride	53		mg Cl/L	P366761	
		Sulfate	100		mg SO4/L	P366763	
	SM 2120 B	Color (true)	56		PCU	P366412	
	SM 2320 B-97	Total Alkalinity	178		mg CaCO3/L	P366736	
	SM 2540 C-97	TDS	457		mg/L	P366806	
	SM 2540 D-97	TSS	2	U	mg/L	P366567	
	SM 4500 F-C-97	Fluoride	0.71		mg F/L	P366743	
2098800	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P366759	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.82		mg N/L	P366470	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.065		mg N/L	P366723	
	EPA 365.1 Rev. 2.0	Total-P	0.54		mg P/L	P366466	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P366519	
2098804	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.38		mg P/L	P366456	
2098826	EPA 8321B	Acesulfame K**	0.20	I	ug/L	P366428	
		2,4-D	0.028		ug/L	P366199	MS
		AMPA**	2.6	I	ug/L	P366428	
		Sucralose**	0.34		ug/L	P366428	
		Endothall**	0.25	U	ug/L	P366428	
		Acetaminophen**	0.0080	U	ug/L	P366199	
		Glufosinate**	1.0	U	ug/L	P366428	
		Glyphosate**	2.0	I	ug/L	P366428	
		Bentazon	0.027		ug/L	P366199	
		Carbamazepine**	0.0014	I	ug/L	P366199	
		Diuron	0.080		ug/L	P366199	
		Fenuron	0.016	U	ug/L	P366199	
		Fluridone**	1.5		ug/L	P366199	
		Imazapyr**	0.67		ug/L	P366199	MS
		Hydrocodone**	0.0020	U	ug/L	P366199	
		Ibuprofen**	0.020	U	ug/L	P366199	
		Imidacloprid	0.017		ug/L	P366199	MS
		Linuron	0.0040	U	ug/L	P366199	
		MCP	0.0064	I	ug/L	P366199	MS
		Naproxen**	0.0080	U	ug/L	P366199	
		Primidone**	0.0040	U	ug/L	P366199	
		Pyraclostrobin**	0.0020	U	ug/L	P366199	
		Triclopyr**	0.0040	U	ug/L	P366199	

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: MDL for some parameters elevated due to matrix interference.

Sample Location: FIELD_BLANK

Collection Date/Time: 06/26/2019 11:50

Field ID: FB 06262019

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2098797	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P366416	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P366761	
		Sulfate	0.20	U	mg SO4/L	P366763	
	SM 2120 B	Color (true)	2.5	U	PCU	P366412	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P366736	
	SM 2540 C-97	TDS	15	U	mg/L	P366806	
	SM 2540 D-97	TSS	2	U	mg/L	P366567	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P366743	
2098801	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P366759	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P366470	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P366723	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P366466	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P366519	
2098805	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P366456	
2098827	EPA 8321B	2,4-D	0.0020	U	ug/L	P366374	
		Acesulfame K**	0.10	U	ug/L	P366428	
		AMPA**	0.10	U	ug/L	P366428	
		Sucralose**	0.010	U	ug/L	P366428	
		Acetaminophen**	0.0080	U	ug/L	P366374	
		Endothall**	0.25	U	ug/L	P366428	
		Glufosinate**	0.10	U	ug/L	P366428	
		Glyphosate**	0.10	U	ug/L	P366428	
		Bentazon	8.0E-04	U	ug/L	P366374	
		Carbamazepine**	8.0E-04	U	ug/L	P366374	
		Diuron	0.0020	U	ug/L	P366374	
		Fenuron	0.016	U	ug/L	P366374	
		Fluridone**	8.0E-04	U	ug/L	P366374	
		Imazapyr**	0.0040	U	ug/L	P366374	
		Hydrocodone**	0.0020	U	ug/L	P366374	
		Ibuprofen**	0.020	U	ug/L	P366374	
		Imidacloprid	0.0020	U	ug/L	P366374	MS
		Linuron	0.0040	U	ug/L	P366374	
		MCP	0.0020	U	ug/L	P366374	MS
		Naproxen**	0.0080	U	ug/L	P366374	
		Primidone**	0.0040	U	ug/L	P366374	
		Pyraclostrobin**	0.0020	U	ug/L	P366374	
		Triclopyr**	0.0040	U	ug/L	P366374	

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: BRADEN RIVER @ CYPRESS BEND PARK

Collection Date/Time: 06/26/2019 10:25

Field ID: G2SW0044

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2098828	EPA 8321B	2,4-D	0.022		ug/L	P366374	
		Acesulfame K**	0.10	U	ug/L	P366428	
		AMPA**	0.21	I	ug/L	P366428	
		Sucralose**	0.61		ug/L	P366428	
		Acetaminophen**	0.0080	U	ug/L	P366374	
		Endothall**	0.25	U	ug/L	P366428	
		Glufosinate**	0.10	U	ug/L	P366428	
		Glyphosate**	0.29	I	ug/L	P366428	
		Bentazon	0.021		ug/L	P366374	
		Carbamazepine**	0.0012	I	ug/L	P366374	
		Diuron	0.012		ug/L	P366374	
		Fenuron	0.016	U	ug/L	P366374	
		Fluridone**	0.033		ug/L	P366374	
		Imazapyr**	0.10		ug/L	P366374	
		Hydrocodone**	0.0020	U	ug/L	P366374	
		Ibuprofen**	0.020	U	ug/L	P366374	
		Imidacloprid	0.080	J	ug/L	P366374	MS
		Linuron	0.0040	U	ug/L	P366374	
		MCP	0.0042	IJ	ug/L	P366374	MS
		Naproxen**	0.0080	U	ug/L	P366374	
		Primidone**	0.0040	U	ug/L	P366374	
		Pyraclostrobin**	0.0020	U	ug/L	P366374	
		Triclopyr**	0.0040	U	ug/L	P366374	

Ref. Method and Comment:

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

Sample Location: NONSENSE @ TARA PRESERVE

Collection Date/Time: 06/26/2019 10:40

Field ID: G2SW0015

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2098829	EPA 8321B	2,4-D	0.0043	I	ug/L	P366374	
		Acesulfame K**	0.10	U	ug/L	P366428	
		AMPA**	0.54		ug/L	P366428	
		Sucralose**	0.061		ug/L	P366428	
		Acetaminophen**	0.0080	U	ug/L	P366374	
		Endothall**	0.25	U	ug/L	P366428	
		Glufosinate**	0.10	U	ug/L	P366428	
		Glyphosate**	2.1		ug/L	P366428	
		Bentazon	0.026		ug/L	P366374	
		Carbamazepine**	8.0E-04	U	ug/L	P366374	
		Diuron	0.0064	I	ug/L	P366374	
		Fenuron	0.016	U	ug/L	P366374	
		Fluridone**	0.10		ug/L	P366374	
		Imazapyr**	0.56		ug/L	P366374	
		Hydrocodone**	0.0020	U	ug/L	P366374	
		Ibuprofen**	0.020	U	ug/L	P366374	
		Imidacloprid	0.027		ug/L	P366374	MS
		Linuron	0.0040	U	ug/L	P366374	
		MCP	0.0020	U	ug/L	P366374	MS
		Naproxen**	0.0080	U	ug/L	P366374	
		Primidone**	0.0040	U	ug/L	P366374	
		Pyraclostrobin**	0.0020	U	ug/L	P366374	
		Triclopyr**	0.0040	U	ug/L	P366374	

Sample Location: CEDAR CREEK @ SADDLEHORN

Collection Date/Time: 06/26/2019 11:05

Field ID: G2SW0018

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2098830	EPA 8321B	2,4-D	0.026		ug/L	P366374	
		Acesulfame K**	0.10	U	ug/L	P366428	
		AMPA**	1.3		ug/L	P366428	
		Sucralose**	0.029	I	ug/L	P366428	
		Acetaminophen**	0.0080	U	ug/L	P366374	
		Endothall**	0.25	U	ug/L	P366428	
		Glufosinate**	0.10	U	ug/L	P366428	
		Glyphosate**	2.9		ug/L	P366428	
		Bentazon	0.023		ug/L	P366374	
		Carbamazepine**	8.0E-04	U	ug/L	P366374	
		Diuron	0.0020	U	ug/L	P366374	
		Fenuron	0.016	U	ug/L	P366374	
		Fluridone**	1.1		ug/L	P366374	
		Imazapyr**	1.9		ug/L	P366374	
		Hydrocodone**	0.0020	U	ug/L	P366374	
		Ibuprofen**	0.020	U	ug/L	P366374	
		Imidacloprid	0.029		ug/L	P366374	MS
		Linuron	0.0040	U	ug/L	P366374	
		MCPP	0.0020	U	ug/L	P366374	MS
		Naproxen**	0.0080	U	ug/L	P366374	
		Primidone**	0.0040	U	ug/L	P366374	
		Pyraclostrobin**	0.0020	U	ug/L	P366374	
		Triclopyr**	0.0040	U	ug/L	P366374	

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P366416

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366638

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366641

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366761

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366763

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P366759

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366448

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366470

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P366723

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: P366449

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P366466

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P366456

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

Reference Method: EPA 8321B
Batch ID: P366199

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
MCP	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: P366374

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P366374

Component	Result	Code	Units
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: P366428

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: P366412

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P366736

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

Reference Method: SM 2540 C-97
Batch ID: P366806

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P366567

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P366743

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P366519

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: P366638

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366641

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366761

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366763

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P366759

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.9		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366470

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	96.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P366723

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO ₂ NO ₃ -N	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P366449

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P366466

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P366456

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	96.9		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P366199

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	116		P	40 - 150
Acetaminophen	82.7		P	30 - 150
Bentazon	117		P	30 - 150
Carbamazepine	82.5		P	40 - 150
Diuron	83.2		P	40 - 150
Fenuron	100		P	40 - 150
Fluridone	93.2		P	40 - 150
Hydrocodone	98.7		P	40 - 150
Ibuprofen	83.5		P	30 - 150
Imazapyr	131		P	40 - 150
Imidacloprid	87.5		P	40 - 150
Linuron	63.2		P	40 - 150
MCPP	137		P	40 - 150
Naproxen	84.5		P	40 - 150
Primidone	79.5		P	40 - 150
Pyraclostrobin	69.4		P	30 - 150
Triclopyr	107		P	30 - 150

Reference Method: EPA 8321B
Batch ID: P366374

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	133		P	40 - 150
Acetaminophen	88.6		P	30 - 150
Bentazon	103		P	30 - 150
Carbamazepine	98.0		P	40 - 150
Diuron	94.1		P	40 - 150
Fenuron	109		P	40 - 150
Fluridone	94.6		P	40 - 150
Hydrocodone	100		P	40 - 150
Ibuprofen	54.2		P	30 - 150
Imazapyr	101		P	40 - 150
Imidacloprid	93.9		P	40 - 150
Linuron	73.1		P	40 - 150
MCPP	131		P	40 - 150
Naproxen	107		P	40 - 150
Primidone	93.8		P	40 - 150
Pyraclostrobin	83.5		P	30 - 150
Triclopyr	115		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P366428

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	148		P	40 - 150
AMPA	83.9		P	40 - 150
Endothall	94.0		P	40 - 150
Glufosinate	83.2		P	40 - 150
Glyphosate	81.0		P	40 - 140
Sucralose	109		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P366412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.3		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P366736

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P366743

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P366519

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366638

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098683	Chloride	101		P	90 - 110
2098794	Chloride	94.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366641

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098683	Sulfate	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366761

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098838	Chloride	103		P	90 - 110
2099095	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366763

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098838	Sulfate	103		P	90 - 110
2099095	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P366759

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098745	Ammonia-N	108	107	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098688	Kjeldahl Nitrogen	88.9	90.3	F/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366470

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098841	Kjeldahl Nitrogen	99.2	94.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P366723

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098751	NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P366449

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098688	Total-P	103	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P366466

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098841	Total-P	103	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P366456

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098752	O-Phosphate-P	95.2	95.8	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P366199

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2097411	2,4-D	137	161	P/F	40 - 150
2097411	Acetaminophen	101	111	P/P	30 - 150
2097411	Bentazon	101	106	P/P	30 - 150
2097411	Carbamazepine	84.4	85.3	P/P	40 - 150
2097411	Diuron	77.0	78.4	P/P	40 - 150
2097411	Fenuron	93.2	96.6	P/P	40 - 150
2097411	Fluridone	85.2	84.1	P/P	40 - 150
2097411	Hydrocodone	116	117	P/P	40 - 150
2097411	Ibuprofen	83.3	90.6	P/P	30 - 150
2097411	Imazapyr	139	182	P/F	40 - 150
2097411	Imidacloprid	174	198	F/F	40 - 150
2097411	Linuron	55.0	53.0	P/P	40 - 150
2097411	MCP	187	189	F/F	40 - 150
2097411	Naproxen	95.4	81.8	P/P	40 - 150
2097411	Primidone	92.6	99.7	P/P	40 - 150
2097411	Pyraclostrobin	71.8	73.2	P/P	30 - 150
2097411	Triclopyr	122	136	P/P	30 - 150

Reference Method: EPA 8321B
Batch ID: P366374

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098828	2,4-D	128	136	P/P	40 - 150
2098828	Acetaminophen	96.5	90.8	P/P	30 - 150
2098828	Bentazon	30.6	41.1	P/P	30 - 150
2098828	Carbamazepine	79.7	86.5	P/P	40 - 150
2098828	Diuron	78.1	88.7	P/P	40 - 150
2098828	Fenuron	72.3	71.6	P/P	40 - 150
2098828	Fluridone	56.0	72.7	P/P	40 - 150
2098828	Hydrocodone	93.3	79.0	P/P	40 - 150
2098828	Ibuprofen	61.1	77.7	P/P	30 - 150
2098828	Imazapyr	63.7	89.5	P/P	40 - 150
2098828	Imidacloprid	148	168	P/F	40 - 150
2098828	Linuron	66.0	76.7	P/P	40 - 150
2098828	MCP	172	183	F/F	40 - 150
2098828	Naproxen	103	120	P/P	40 - 150
2098828	Primidone	89.6	101	P/P	40 - 150
2098828	Pyraclostrobin	74.2	82.1	P/P	30 - 150
2098828	Triclopyr	142	143	P/P	30 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P366428

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098570	Acesulfame K	148	138	P/P	40 - 150
2098570	AMPA	75.8	78.0	P/P	40 - 150
2098570	Endothall	95.6	94.9	P/P	40 - 150
2098570	Glufosinate	85.6	81.4	P/P	40 - 150
2098570	Glyphosate	76.0	79.3	P/P	40 - 140
2098570	Sucralose	101	105	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P366743

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2100171	Fluoride	99.1	99.1	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P366519

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2098888	Organic Carbon	95.6	96.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P366416

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098758	Turbidity	3.15	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366638

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098683	Chloride	0.882	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366641

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098683	Sulfate	3.95	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366761

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098838	Chloride	0.0103	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P366763

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098838	Sulfate	0.717	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P366759

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098745	Ammonia-N	0.782	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098688	Kjeldahl Nitrogen	1.32	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P366470

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098841	Kjeldahl Nitrogen	3.61	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P366723

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098751	NO2NO3-N	0.512	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P366449

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098688	Total-P	1.49	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P366466

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098841	Total-P	4.62	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P366456

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098752	O-Phosphate-P	0.628	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P366199

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2097411	2,4-D	11.9	Spike	P	0 - 30
2097411	Acetaminophen	8.61	Spike	P	0 - 30
2097411	Bentazon	2.77	Spike	P	0 - 30
2097411	Carbamazepine	1.14	Spike	P	0 - 30
2097411	Diuron	1.59	Spike	P	0 - 30
2097411	Fenuron	3.59	Spike	P	0 - 30
2097411	Fluridone	1.25	Spike	P	0 - 30
2097411	Hydrocodone	1.01	Spike	P	0 - 30
2097411	Ibuprofen	8.35	Spike	P	0 - 30
2097411	Imazapyr	20.8	Spike	P	0 - 30
2097411	Imidacloprid	6.52	Spike	P	0 - 30
2097411	Linuron	3.84	Spike	P	0 - 30
2097411	MCPP	1.01	Spike	P	0 - 30
2097411	Naproxen	15.4	Spike	P	0 - 30
2097411	Primidone	7.35	Spike	P	0 - 30
2097411	Pyraclostrobin	1.99	Spike	P	0 - 30
2097411	Triclopyr	11.2	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P366374

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: P366374

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098828	2,4-D	4.94	Spike	P	0 - 30
2098828	Acetaminophen	6.10	Spike	P	0 - 30
2098828	Bentazon	7.49	Spike	P	0 - 30
2098828	Carbamazepine	7.65	Spike	P	0 - 30
2098828	Diuron	10.9	Spike	P	0 - 30
2098828	Fenuron	1.10	Spike	P	0 - 30
2098828	Fluridone	7.30	Spike	P	0 - 30
2098828	Hydrocodone	16.5	Spike	P	0 - 30
2098828	Ibuprofen	23.8	Spike	P	0 - 30
2098828	Imazapyr	12.5	Spike	P	0 - 30
2098828	Imidacloprid	7.82	Spike	P	0 - 30
2098828	Linuron	15.0	Spike	P	0 - 30
2098828	MCPP	6.34	Spike	P	0 - 30
2098828	Naproxen	15.4	Spike	P	0 - 30
2098828	Primidone	12.4	Spike	P	0 - 30
2098828	Pyraclostrobin	10.1	Spike	P	0 - 30
2098828	Triclopyr	1.13	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P366428

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098570	Acesulfame K	6.79	Spike	P	0 - 30
2098570	AMPA	2.88	Spike	P	0 - 30
2098570	Endothall	0.764	Spike	P	0 - 30
2098570	Glufosinate	5.01	Spike	P	0 - 30
2098570	Glyphosate	4.26	Spike	P	0 - 30
2098570	Sucralose	4.55	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P366412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098844	Color (true)	0.362	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P366736

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2100171	Total Alkalinity	0.458	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
Batch ID: P366806

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098794	TDS	4.05	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
Batch ID: P366743

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2100171	Fluoride	0.0	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P366519

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2098888	Organic Carbon	0.304	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: 2098824
Field Sample ID: G2SW0030

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	144	P	30 - 160
EPA 8321B	Acetaminophen-d4	82.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	73.0	P	30 - 160
EPA 8321B	Diuron-d6	68.9	P	30 - 160
EPA 8321B	Endothall-d6	92.0	P	30 - 160
EPA 8321B	Endothall-d6	92.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	78.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	78.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.0	P	30 - 160
EPA 8321B	Primidone-d5	88.0	P	30 - 160
EPA 8321B	Sucralose-d6	84.8	P	30 - 160
EPA 8321B	Sucralose-d6	84.8	P	30 - 160

Lab Sample ID: 2098825
Field Sample ID: G2SW0110

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	141	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	73.3	P	30 - 160
EPA 8321B	Diuron-d6	70.7	P	30 - 160
EPA 8321B	Endothall-d6	97.8	P	30 - 160
EPA 8321B	Endothall-d6	97.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	77.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	77.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	77.2	P	30 - 160
EPA 8321B	Primidone-d5	91.4	P	30 - 160
EPA 8321B	Sucralose-d6	97.8	P	30 - 160
EPA 8321B	Sucralose-d6	97.8	P	30 - 160

Lab Sample ID: 2098826
Field Sample ID: G2SW0110_DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	151	P	30 - 160
EPA 8321B	Acetaminophen-d4	84.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	74.8	P	30 - 160
EPA 8321B	Diuron-d6	67.6	P	30 - 160
EPA 8321B	Endothall-d6	94.7	P	30 - 160
EPA 8321B	Endothall-d6	94.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	76.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	76.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	80.9	P	30 - 160
EPA 8321B	Primidone-d5	90.6	P	30 - 160
EPA 8321B	Sucralose-d6	84.4	P	30 - 160
EPA 8321B	Sucralose-d6	84.4	P	30 - 160

Lab Sample ID: 2098827
Field Sample ID: FB 06262019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	150	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2098827
Field Sample ID: FB 06262019

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	106	P	30 - 160
EPA 8321B	Carbamazepine-d10	106	P	30 - 160
EPA 8321B	Diuron-d6	104	P	30 - 160
EPA 8321B	Endothall-d6	100	P	30 - 160
EPA 8321B	Endothall-d6	100	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	70.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	70.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	77.0	P	30 - 160
EPA 8321B	Primidone-d5	94.3	P	30 - 160
EPA 8321B	Sucralose-d6	99.9	P	30 - 160
EPA 8321B	Sucralose-d6	99.9	P	30 - 160

Lab Sample ID: 2098828
Field Sample ID: G2SW0044

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	143	P	30 - 160
EPA 8321B	Acetaminophen-d4	109	P	30 - 160
EPA 8321B	Carbamazepine-d10	83.0	P	30 - 160
EPA 8321B	Diuron-d6	83.4	P	30 - 160
EPA 8321B	Endothall-d6	94.0	P	30 - 160
EPA 8321B	Endothall-d6	94.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	38.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	38.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	89.5	P	30 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Sucralose-d6	131	P	30 - 160
EPA 8321B	Sucralose-d6	131	P	30 - 160

Lab Sample ID: 2098829
Field Sample ID: G2SW0015

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	126	P	30 - 160
EPA 8321B	Acetaminophen-d4	97.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	82.3	P	30 - 160
EPA 8321B	Diuron-d6	78.1	P	30 - 160
EPA 8321B	Endothall-d6	86.2	P	30 - 160
EPA 8321B	Endothall-d6	86.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	44.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	44.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	82.2	P	30 - 160
EPA 8321B	Primidone-d5	89.5	P	30 - 160
EPA 8321B	Sucralose-d6	65.7	P	30 - 160
EPA 8321B	Sucralose-d6	65.7	P	30 - 160

Lab Sample ID: 2098830
Field Sample ID: G2SW0018

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	116	P	30 - 160
EPA 8321B	Acetaminophen-d4	92.2	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2098830
Field Sample ID: G2SW0018

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbamazepine-d10	80.6	P	30 - 160
EPA 8321B	Diuron-d6	79.1	P	30 - 160
EPA 8321B	Endothall-d6	98.5	P	30 - 160
EPA 8321B	Endothall-d6	98.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	56.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	56.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	73.2	P	30 - 160
EPA 8321B	Primidone-d5	83.2	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160
EPA 8321B	Sucralose-d6	100	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A92404

Included Lab Sample IDs: 2098794, 2098795, 2098796, 2098797

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.5	99.4	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A92405

Included Lab Sample IDs: 2098794, 2098795, 2098796, 2098797

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	97.0	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A92421

Included Lab Sample IDs: 2098802, 2098803, 2098804, 2098805

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	98.2	P/P	90 - 110
O-Phosphate-P	97.5	96.3	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A92454

Included Lab Sample IDs: 2098798, 2098799, 2098800, 2098801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.4	94.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A92464

Included Lab Sample IDs: 2098798, 2098799, 2098800

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	99.7	P/P	90 - 110
Total-P	99.7	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A92467

Included Lab Sample IDs: 2098801

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

Reference Method: EPA 8321B

Run ID: A92499

Included Lab Sample IDs: 2098824, 2098825, 2098826, 2098827, 2098828, 2098829, 2098830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	65.5	76.8	P/P	60 - 160
AMPA	79.4	82.3	P/P	60 - 160
AMPA	82.3	81.1	P/P	60 - 160
Glufosinate	67.5	86.8	P/P	60 - 160
Glufosinate	72.5	86.0	P/P	60 - 160
Glufosinate	86.0	75.6	P/P	60 - 160
Glyphosate	71.2	80.2	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A92499

Included Lab Sample IDs: 2098824, 2098825, 2098826, 2098827, 2098828, 2098829, 2098830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	79.4	89.0	P/P	60 - 160
Glyphosate	89.0	80.7	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A92500

Included Lab Sample IDs: 2098824, 2098825, 2098826, 2098827, 2098828, 2098829, 2098830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	138	144	P/P	60 - 160
Acesulfame K	144	136	P/P	60 - 160
Endothall	98.9	101	P/P	60 - 160
Endothall	99.3	98.9	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A92512

Included Lab Sample IDs: 2098794, 2098795, 2098796, 2098797

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	102	P/P	90 - 110
Chloride	103	104	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A92514

Included Lab Sample IDs: 2098798, 2098799, 2098800, 2098801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.1	99.8	P/P	90 - 110
Kjeldahl Nitrogen	99.8	97.9	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A92555

Included Lab Sample IDs: 2098827, 2098828, 2098829, 2098830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	86.1	90.4	P/P	50 - 150
Acetaminophen	93.8	131	P/P	60 - 160
Bentazon	104	110	P/P	50 - 160
Carbamazepine	108	117	P/P	60 - 150
Diuron	114	118	P/P	60 - 150
Fenuron	115	118	P/P	60 - 150
Fluridone	99.9	104	P/P	60 - 160
Hydrocodone	116	114	P/P	60 - 150
Ibuprofen	92.2	77.3	P/P	50 - 160
Imazapyr	105	102	P/P	50 - 150
Imidacloprid	94.7	97.2	P/P	60 - 150
Linuron	90.3	103	P/P	60 - 150
MCPP	84.9	103	P/P	50 - 150
Naproxen	73.7	81.1	P/P	50 - 160
Primidone	100	94.2	P/P	60 - 150
Pyraclostrobin	97.3	96.5	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A92555

Included Lab Sample IDs: 2098827, 2098828, 2098829, 2098830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Triclopyr	94.4	97.8	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A92556

Included Lab Sample IDs: 2098798, 2098799, 2098800, 2098801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	96.0	102	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A92563

Included Lab Sample IDs: 2098794, 2098795, 2098796, 2098797

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

Reference Method: SM 4500 F-C-97

Run ID: A92563

Included Lab Sample IDs: 2098794, 2098795, 2098796, 2098797

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.6	99.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A92569

Included Lab Sample IDs: 2098824, 2098825, 2098826, 2098830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	79.9	83.5	P/P	50 - 150
Acetaminophen	101	103	P/P	60 - 160
Bentazon	114	106	P/P	50 - 160
Carbamazepine	102	101	P/P	60 - 150
Diuron	103	103	P/P	60 - 150
Fenuron	104	107	P/P	60 - 150
Fluridone	112	106	P/P	60 - 160
Hydrocodone	102	99.4	P/P	60 - 150
Ibuprofen	90.0	81.5	P/P	50 - 160
Imazapyr	106	104	P/P	50 - 150
Imazapyr	112	122	P/P	50 - 150
Imidacloprid	84.8	87.8	P/P	60 - 150
Linuron	88.0	90.9	P/P	60 - 150
MCPP	80.0	89.4	P/P	50 - 150
Naproxen	101	117	P/P	50 - 160
Primidone	95.2	88.9	P/P	60 - 150
Pyraclostrobin	80.7	82.9	P/P	60 - 150
Triclopyr	79.3	85.3	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A92572

Included Lab Sample IDs: 2098798, 2098799, 2098800, 2098801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	108	109	P/P	90 - 110
Ammonia-N	109	110	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A92625

Included Lab Sample IDs: 2098824, 2098825, 2098826, 2098827, 2098828, 2098829, 2098830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	101	98.8	P/P	60 - 160
Sucralose	102	101	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A92632

Included Lab Sample IDs: 2098824, 2098825, 2098826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluridone	110	109	P/P	60 - 160

* 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					3.15	
EPA 300.0 Rev. 2.1	Chloride	102	101	94.4		0.882	
	Chloride	101	103	101		0.0103	
	Sulfate	102	102			3.95	
	Sulfate	101	103	102		0.717	
	Ammonia-N	107	108	107			0.782
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.9	88.9	90.3			1.32
	Kjeldahl Nitrogen	96.6	99.2	94.0			3.61
EPA 353.2 Rev. 2.0	NO2NO3-N	102	99.5	100			0.512
EPA 365.1 Rev. 2.0	Total-P	101	103	101			1.49
	Total-P	102	103	98.0			4.62
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.9	95.2	95.8			0.628
EPA 8321B	2,4-D	116	137	161			11.9
	2,4-D	133	128	136			4.94
	Acesulfame K	148	148	138			6.79
	Acetaminophen	82.7	101	111			8.61
	Acetaminophen	88.6	96.5	90.8			6.10
	AMPA	83.9	75.8	78.0			2.88
	Bentazon	117	101	106			2.77
	Bentazon	103	30.6	41.1			7.49
	Carbamazepine	82.5	84.4	85.3			1.14
	Carbamazepine	98.0	79.7	86.5			7.65
	Diuron	83.2	77.0	78.4			1.59
	Diuron	94.1	78.1	88.7			10.9
	Endothall	94.0	95.6	94.9			0.764
	Fenuron	100	93.2	96.6			3.59
	Fenuron	109	72.3	71.6			1.10
	Fluridone	93.2	85.2	84.1			1.25
	Fluridone	94.6	56.0	72.7			7.30
	Glufosinate	83.2	85.6	81.4			5.01
	Glyphosate	81.0	76.0	79.3			4.26
	Hydrocodone	98.7	116	117			1.01
	Hydrocodone	100	93.3	79.0			16.5
	Ibuprofen	83.5	83.3	90.6			8.35
	Ibuprofen	54.2	77.7	61.1			23.8
	Imazapyr	131	139	182			20.8
	Imazapyr	101	63.7	89.5			12.5
	Imidacloprid	87.5	174	198			6.52
	Imidacloprid	93.9	148	168			7.82
	Linuron	63.2	55.0	53.0			3.84
	Linuron	73.1	66.0	76.7			15.0
	MCPP	137	187	189			1.01
	MCPP	131	172	183			6.34
	Naproxen	84.5	95.4	81.8			15.4
	Naproxen	107	103	120			15.4
	Primidone	79.5	92.6	99.7			7.35
	Primidone	93.8	89.6	101			12.4
	Pyraclostrobin	69.4	71.8	73.2			1.99
	Pyraclostrobin	83.5	74.2	82.1			10.1
	Sucralose	109	101	105			4.55
	Triclopyr	107	122	136			11.2
	Triclopyr	115	142	143			1.13
SM 2120 B	Color (true)	98.3				0.362	
SM 2320 B-97	Total Alkalinity	103				0.458	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
					LCS	
SM 2540 C-97	TDS				4.05	
SM 4500 F-C-97	Fluoride	100	99.1	99.1		0.0
SM 5310 B-00	Organic Carbon	95.6	95.6	96.0		0.304

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2098794, 2098795, 2098796, 2098797
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2098794, 2098795, 2098796, 2098797
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2098794, 2098795, 2098796, 2098797
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2098798, 2098799, 2098800, 2098801
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2098798, 2098799, 2098800, 2098801
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2098798, 2098799, 2098800, 2098801
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2098798, 2098799, 2098800, 2098801
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2098802, 2098803, 2098804, 2098805
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2098824, 2098825, 2098826, 2098827, 2098828, 2098829, 2098830
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2098824, 2098825, 2098826, 2098827, 2098828, 2098829, 2098830
SM 2120 B / E31780	True Color measured at 450 nm	2098794, 2098795, 2098796, 2098797
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2098794, 2098795, 2098796, 2098797
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2098794, 2098795, 2098796, 2098797
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2098794, 2098795, 2098796, 2098797
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2098794, 2098795, 2098796, 2098797
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2098798, 2098799, 2098800, 2098801

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	06/27/2019			06/27/2019 16:49	Julia Storbeck	2098794, 2098795, 2098796, 2098797
EPA 300.0 Rev. 2.1	06/27/2019			07/02/2019 03:55	Jhamieka S. Greenwood	2098794
	06/27/2019			07/05/2019 16:59	Jhamieka S. Greenwood	2098794
	06/27/2019			07/05/2019 17:11	Jhamieka S. Greenwood	2098795
	06/27/2019			07/05/2019 17:23	Jhamieka S. Greenwood	2098796
	06/27/2019			07/05/2019 17:36	Jhamieka S. Greenwood	2098797
EPA 350.1 Rev. 2.0	06/27/2019			07/03/2019 14:36	Ping Hua	2098799
	06/27/2019			07/03/2019 14:41	Ping Hua	2098798
	06/27/2019			07/03/2019 14:48	Ping Hua	2098800
	06/27/2019			07/03/2019 14:51	Ping Hua	2098801
EPA 351.2 Rev. 2.0	06/27/2019	06/28/2019 11:25	Sima Feizi	07/02/2019 12:13	Joseph Suarez	2098798
	06/27/2019	06/28/2019 11:25	Sima Feizi	07/02/2019 12:19	Joseph Suarez	2098799
	06/27/2019	06/28/2019 11:25	Sima Feizi	07/02/2019 12:21	Joseph Suarez	2098800
	06/27/2019	06/28/2019 11:25	Sima Feizi	07/02/2019 12:25	Joseph Suarez	2098801
EPA 353.2 Rev. 2.0	06/27/2019			07/03/2019 15:23	Lauren Lees	2098798
	06/27/2019			07/03/2019 15:25	Lauren Lees	2098799
	06/27/2019			07/03/2019 15:26	Lauren Lees	2098800
	06/27/2019			07/03/2019 15:27	Lauren Lees	2098801
EPA 365.1 Rev. 2.0	06/27/2019	06/28/2019 12:40	Sima Feizi	07/01/2019 09:17	Beverly Y. Sanders	2098798
	06/27/2019	06/28/2019 12:40	Sima Feizi	07/01/2019 09:26	Beverly Y. Sanders	2098799
	06/27/2019	06/28/2019 12:40	Sima Feizi	07/01/2019 09:27	Beverly Y. Sanders	2098800
	06/27/2019	06/28/2019 12:40	Sima Feizi	07/01/2019 12:09	Beverly Y. Sanders	2098801
EPA 365.1 Rev. 2.0 dissolved	06/27/2019			06/27/2019 15:36	Jhamieka S. Greenwood	2098805
	06/27/2019			06/27/2019 16:28	Jhamieka S. Greenwood	2098802
	06/27/2019			06/27/2019 16:29	Jhamieka S. Greenwood	2098803
	06/27/2019			06/27/2019 16:30	Jhamieka S. Greenwood	2098804
EPA 8321B	06/27/2019	06/27/2019 12:30	Hoor Shaik	07/06/2019 06:43	Juyoung Kim	2098824
	06/27/2019	06/27/2019 12:30	Hoor Shaik	07/06/2019 07:18	Juyoung Kim	2098825
	06/27/2019	06/27/2019 12:30	Hoor Shaik	07/06/2019 07:53	Juyoung Kim	2098826
	06/27/2019	06/27/2019 12:30	Hoor Shaik	07/09/2019 02:29	Juyoung Kim	2098824
	06/27/2019	06/27/2019 12:30	Hoor Shaik	07/09/2019 03:03	Juyoung Kim	2098825
	06/27/2019	06/27/2019 12:30	Hoor Shaik	07/09/2019 03:38	Juyoung Kim	2098826
	06/27/2019	06/28/2019 10:30	Rebecca Ware	06/28/2019 13:50	Rebecca Ware	2098827
	06/27/2019	06/28/2019 10:30	Rebecca Ware	06/28/2019 14:17	Rebecca Ware	2098828
	06/27/2019	06/28/2019 10:30	Rebecca Ware	06/28/2019 14:27	Rebecca Ware	2098829
	06/27/2019	06/28/2019 10:30	Rebecca Ware	06/28/2019 14:38	Rebecca Ware	2098830
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/01/2019 16:37	Rebecca Ware	2098824
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/01/2019 16:51	Rebecca Ware	2098825
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/01/2019 17:05	Rebecca Ware	2098826
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/01/2019 17:19	Rebecca Ware	2098827

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/01/2019 18:01	Rebecca Ware	2098828
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/01/2019 18:14	Rebecca Ware	2098829
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/01/2019 18:28	Rebecca Ware	2098830
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/02/2019 10:01	Rebecca Ware	2098824
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/02/2019 10:12	Rebecca Ware	2098825
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/02/2019 10:23	Rebecca Ware	2098826
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/08/2019 16:44	Rebecca Ware	2098824
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/08/2019 16:55	Rebecca Ware	2098825
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/08/2019 17:07	Rebecca Ware	2098826
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/08/2019 17:19	Rebecca Ware	2098827
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/08/2019 17:54	Rebecca Ware	2098828
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/08/2019 18:06	Rebecca Ware	2098829
	06/27/2019	06/28/2019 10:30	Rebecca Ware	07/08/2019 18:17	Rebecca Ware	2098830
	06/27/2019	07/01/2019 09:00	Hoor Shaik	07/03/2019 02:06	Juyoung Kim	2098827
	06/27/2019	07/01/2019 09:00	Hoor Shaik	07/03/2019 02:41	Juyoung Kim	2098828
	06/27/2019	07/01/2019 09:00	Hoor Shaik	07/03/2019 03:15	Juyoung Kim	2098829
	06/27/2019	07/01/2019 09:00	Hoor Shaik	07/03/2019 03:50	Juyoung Kim	2098830
	06/27/2019	07/01/2019 09:00	Hoor Shaik	07/04/2019 17:48	Juyoung Kim	2098830
SM 2120 B	06/27/2019			06/27/2019 16:18	Madeline Funaro	2098794
	06/27/2019			06/27/2019 16:19	Madeline Funaro	2098795
	06/27/2019			06/27/2019 16:20	Madeline Funaro	2098796, 2098797
SM 2320 B-97	06/27/2019			07/04/2019 03:51	Dale L. Simmons	2098794
	06/27/2019			07/04/2019 04:04	Dale L. Simmons	2098795
	06/27/2019			07/04/2019 04:18	Dale L. Simmons	2098796
	06/27/2019			07/04/2019 04:32	Dale L. Simmons	2098797
SM 2540 C-97	06/27/2019			06/28/2019 16:45	Rosalyn Ballman	2098794, 2098795, 2098796, 2098797
SM 2540 D-97	06/27/2019			06/28/2019 16:45	Rosalyn Ballman	2098794, 2098795, 2098796, 2098797
SM 4500 F-C-97	06/27/2019			07/04/2019 03:51	Dale L. Simmons	2098794
	06/27/2019			07/04/2019 04:04	Dale L. Simmons	2098795
	06/27/2019			07/04/2019 04:18	Dale L. Simmons	2098796
	06/27/2019			07/04/2019 04:32	Dale L. Simmons	2098797
SM 5310 B-00	06/27/2019			06/28/2019 05:02	Madeline Funaro	2098798
	06/27/2019			06/28/2019 05:15	Madeline Funaro	2098799
	06/27/2019			06/28/2019 05:29	Madeline Funaro	2098800
	06/27/2019			06/28/2019 05:42	Madeline Funaro	2098801