

Chemical Analysis Report

SW-DIST-2019-11-14-01

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

Event Description: **Salix Slough SCI#2**
Request ID: **RQ-2019-10-28-06**
Customer: **SW-DIST**
Project ID: **SMP**

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Date Certified: 09-DEC-2019 10:09



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: Metals, 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: Carlton Branch @ SR674

Collection Date/Time: 11/13/2019 12:00

Field ID: G2SW0099

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2135966	EPA 180.1 Rev. 2.0	Turbidity	2.4	A	NTU	P374247	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P374399	
		Sulfate	51		mg SO4/L	P374402	
	SM 2120 B	Color (true)	34		PCU	P374264	
	SM 2320 B-97	Total Alkalinity	16		mg CaCO3/L	P374495	
	SM 2540 C-97	TDS	138		mg/L	P374829	
	SM 2540 D-97	TSS	4	I	mg/L	P374819	
	SM 4500 F-C-97	Fluoride	0.16		mg F/L	P374500	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P374462	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.45		mg N/L	P374519	
2135967	EPA 353.2 Rev. 2.0	NO2NO3-N	1.0		mg N/L	P374284	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P374706	
	SM 5310 B-00	Organic Carbon	6.4		mg C/L	P374355	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.095		mg P/L	P374274	
	EPA 8321B	2,4-D	0.0020	U	ug/L	P374121	
2135972		Acesulfame K**	0.10	U	ug/L	P374205	
		AMPA**	0.22	I	ug/L	P374205	
		Sucralose**	0.087		ug/L	P374205	MS
		Acetaminophen**	0.0080	U	ug/L	P374121	
		Acetamiprid**	0.0020	U	ug/L	P374121	
		Endothall**	0.25	U	ug/L	P374205	
		Glufosinate**	0.10	U	ug/L	P374205	
		Glyphosate**	0.11	I	ug/L	P374205	
		Afidopyrophen**	0.0020	UJ	ug/L	P374121	RPD
		Bentazon	8.0E-04	U	ug/L	P374121	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P374121	
		Carbamazepine**	8.0E-04	U	ug/L	P374121	
		Clothianidin**	0.028		ug/L	P374121	
		Dinotefuran**	0.12		ug/L	P374121	
		Diuron	0.0020	U	ug/L	P374121	
		Fenuron	0.016	U	ug/L	P374121	
		Fluridone**	8.0E-04	U	ug/L	P374121	
		Imazapyr**	0.015	I	ug/L	P374121	
		Hydrocodone**	0.0020	U	ug/L	P374121	
		Ibuprofen**	0.020	U	ug/L	P374121	
		Imidacloprid	0.074		ug/L	P374121	MS
		Linuron	0.0040	U	ug/L	P374121	
		Mandestrobin**	0.0020	UJ	ug/L	P374121	
		MCP	0.0020	U	ug/L	P374121	
		Naproxen**	0.0080	U	ug/L	P374121	
		Primidone**	0.0040	U	ug/L	P374121	
		Pyraclostrobin**	0.0020	U	ug/L	P374121	
		Thiamethoxam**	0.20		ug/L	P374121	

Field ID: G2SW0099

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2135972	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P374121	
		Triclopyr**	0.0040	U	ug/L	P374121	
2135973	EPA 200.7 Rev. 4.4	Barium	15.6		ug/L	P374233	
		Calcium	16.4		mg/L	P374233	
		Iron	110	I	ug/L	P374233	
		Magnesium	8.07		mg/L	P374233	
		Potassium	7.6		mg/L	P374233	
		Sodium	7.3		mg/L	P374233	
		Zinc	5.0	U	ug/L	P374233	
	EPA 200.8 Rev. 5.4	Aluminum	131		ug/L	P374233	
		Antimony	0.23		ug/L	P374233	
		Arsenic	0.59		ug/L	P374233	
		Boron**	33.6		ug/L	P374233	
		Cadmium	0.097		ug/L	P374233	
		Chromium	0.57	I	ug/L	P374233	
		Copper	1.38		ug/L	P374233	
		Lead	0.20	U	ug/L	P374233	
		Nickel	0.50	U	ug/L	P374233	
		Selenium	0.32	I	ug/L	P374233	
		Silver	0.010	U	ug/L	P374233	
		Thallium	0.10	U	ug/L	P374233	
2135974	EPA 8270E	Acetochlor	0.24	U	ng/L	P374273	
		Alachlor	0.24	U	ng/L	P374273	
		Ametryn	0.58	U	ng/L	P374273	
		Atrazine	0.39	I	ng/L	P374273	
		Atrazine Desethyl	1.4	UJ	ng/L	P374273	RPD
		Azinphos Methyl	4.8	U	ng/L	P374273	
		Bromacil	250		ng/L	P374273	
		Butylate	0.38	U	ng/L	P374273	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P374273	
		Chlorpyrifos Methyl	0.096	U	ng/L	P374273	
		Cyanazine	3.1	UJ	ng/L	P374273	RPD
		Demeton	6.7	U	ng/L	P374273	
		Diazinon	0.12	U	ng/L	P374273	
		Dimethenamid**	0.096	U	ng/L	P374273	
		Disulfoton	0.48	U	ng/L	P374273	
		Dithiopyr**	0.21	IQ	ng/L	P374719	
		EPTC	1.2	U	ng/L	P374273	
		Ethion	0.14	U	ng/L	P374273	
		Ethoprop	0.096	UJ	ng/L	P374273	RPD
		Fenamiphos	0.48	U	ng/L	P374273	
		Fipronil	0.24	U	ng/L	P374273	
		Fipronil Desulfinyl**	0.12	U	ng/L	P374273	
		Fipronil Sulfide	0.14	U	ng/L	P374273	
		Fipronil Sulfone	0.14	U	ng/L	P374273	

Field ID: G2SW0099

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2135974	EPA 8270E	Fonofos	0.19	U	ng/L	P374273	
		Hexazinone	0.48	U	ng/L	P374273	
		Malathion	0.34	UJ	ng/L	P374273	RPD
		Metalaxyl	16		ng/L	P374273	
		Metolachlor	16		ng/L	P374273	
		Metribuzin	0.72	UJ	ng/L	P374273	RPD
		Mevinphos	0.48	UJ	ng/L	P374273	RPD
		Molinate	0.29	U	ng/L	P374273	
		Norflurazon	24		ng/L	P374273	
		Oxadiazon**	7.2	J	ng/L	P374273	MS
		Parathion Ethyl	0.24	U	ng/L	P374273	
		Parathion Methyl	0.53	UJ	ng/L	P374273	LCS
		Pendimethalin	0.96	U	ng/L	P374273	
		Phorate	0.24	U	ng/L	P374273	
		Prodiamine**	0.17	U	ng/L	P374273	
		Prometon	0.86	U	ng/L	P374273	
		Prometryn	0.19	U	ng/L	P374273	
		Simazine	0.48	U	ng/L	P374273	
		Tebuconazole**	0.48	UJ	ng/L	P374273	RPD
		Terbufos	0.096	U	ng/L	P374273	
		Terbuthylazine	0.41	U	ng/L	P374273	

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: J - second source check standards for some analytes were not available for analysis. MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

EPA 8270E: MS accuracy for some components not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes. Sample expired for preparation for dithiopyr due to re-extraction. The re-extraction was needed due to the Method Blank contamination for that analyte in the original extraction.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P374247

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P374233

Component	Result	Code	Units
Barium	1.0	U	ug/L
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P374233

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P374399

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P374402

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P374462

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P374519

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P374284

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P374706

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P374274

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

Reference Method: EPA 8270E
Batch ID: P374273

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	5.0	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	7.0	U	ng/L
Diazinon	0.12	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.30	U	ng/L
Metolachlor	0.50	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P374273

Component	Result	Code	Units
Metribuzin	0.75	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270E
Batch ID: P374719

Component	Result	Code	Units
Dithiopyr	0.10	U	ng/L

Reference Method: EPA 8321B
Batch ID: P374121

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P374205

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: P374264

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P374495

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

Reference Method: SM 2540 C-97
Batch ID: P374829

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P374819

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P374500

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P374355

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P374233

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	101		P	85 - 115
Calcium	91.8		P	85 - 115
Iron	94.3		P	85 - 115
Magnesium	93.1		P	85 - 115
Potassium	97.8		P	85 - 115
Sodium	90.4		P	85 - 115
Zinc	98.7		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P374233

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	96.7		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	98.8		P	85 - 115
Boron	96.0		P	85 - 115
Cadmium	97.1		P	85 - 115
Chromium	99.0		P	85 - 115
Copper	99.6		P	85 - 115
Lead	93.3		P	85 - 115
Nickel	99.2		P	85 - 115
Selenium	95.5		P	85 - 115
Silver	97.9		P	85 - 115
Thallium	100		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P374399

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P374402

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P374462

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P374519

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P374284

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P374706

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P374274

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

Reference Method: EPA 8270E
Batch ID: P374273

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	101	97.3	P/P	69 - 122
Alachlor	104	102	P/P	71 - 120
Ametryn	101	93.0	P/P	47 - 138
Atrazine	101	118	P/P	74 - 124
Atrazine Desethyl	76.8	116	P/P	38 - 138
Azinphos Methyl	102	102	P/P	69 - 154
Bromacil	89.3	89.3	P/P	39 - 121
Butylate	52.6	65.7	P/P	27 - 87.0
Chlorpyrifos Ethyl	97.2	103	P/P	69 - 118
Chlorpyrifos Methyl	95.5	110	P/P	70 - 120
Cyanazine	92.7	178	P/P	20 - 250
Demeton	81.4	102	P/P	39 - 118
Diazinon	98.8	110	P/P	68 - 127
Dimethenamid	98.9	92.1	P/P	66 - 125
Disulfoton	95.6	121	P/P	52 - 126
EPTC	54.0	69.1	P/P	24 - 88.0
Ethion	105	103	P/P	51 - 132
Ethoprop	81.1	115	P/P	58 - 117
Fenamiphos	109	85.4	P/P	38 - 139
Fipronil	106	93.6	P/P	61 - 124
Fipronil Desulfinyl	110	110	P/P	47 - 120
Fipronil Sulfide	95.9	95.6	P/P	56 - 119
Fipronil Sulfone	92.8	82.6	P/P	50 - 117
Fonofos	85.5	113	P/P	60 - 121
Hexazinone	111	112	P/P	55 - 137
Malathion	106	101	P/P	66 - 126
Metalaxyl	101	98.6	P/P	33 - 140
Metolachlor	102	97.5	P/P	69 - 119
Metribuzin	98.6	228	P/P	31 - 238
Mevinphos	53.7	78.3	P/P	42 - 113
Molinate	59.9	81.1	P/P	32 - 96.0
Norflurazon	112	102	P/P	54 - 123
Oxadiazon	97.2	92.3	P/P	63 - 128
Parathion Ethyl	95.8	110	P/P	72 - 111

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P374273

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Parathion Methyl	104	129	P/F	74 - 126
Pendimethalin	102	105	P/P	61 - 131
Phorate	85.3	110	P/P	51 - 115
Prodiamine	108	98.3	P/P	38 - 144
Prometon	104	92.5	P/P	54 - 119
Prometryn	106	102	P/P	63 - 120
Simazine	101	126	P/P	75 - 126
Tebuconazole	75.7	28.7	P/P	20 - 119
Terbufos	88.9	116	P/P	64 - 116
Terbuthylazine	98.1	107	P/P	73 - 117

Reference Method: EPA 8270E
 Batch ID: P374719

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dithiopyr	80.7	83.9	P/P	67 - 127

Reference Method: EPA 8321B
 Batch ID: P374121

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	134		P	40 - 160
Acetaminophen	95.4		P	30 - 160
Acetamiprid	92.2		P	40 - 160
Afidopyropen	90.6		P	40 - 160
Bentazon	78.3		P	30 - 160
Benzovindiflupyr	83.0		P	40 - 160
Carbamazepine	103		P	40 - 160
Clothianidin	71.8		P	40 - 160
Dinotefuran	85.9		P	40 - 160
Diuron	79.4		P	40 - 160
Fenuron	106		P	40 - 160
Fluridone	90.5		P	40 - 160
Hydrocodone	104		P	40 - 160
Ibuprofen	93.2		P	30 - 160
Imazapyr	108		P	40 - 160
Imidacloprid	115		P	40 - 160
Linuron	80.4		P	40 - 160
Mandestrobin	89.3		P	40 - 160
MCPP	134		P	40 - 160
Naproxen	58.5		P	40 - 160
Primidone	88.2		P	40 - 160
Pyraclostrobin	75.1		P	30 - 160
Thiamethoxam	96.8		P	40 - 160
Tolfenpyrad	67.4		P	40 - 160
Triclopyr	82.0		P	30 - 160

Reference Method: EPA 8321B
 Batch ID: P374205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	95.5		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P374205

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	141		P	40 - 150
Endothall	68.0		P	40 - 150
Glufosinate	111		P	40 - 150
Glyphosate	129		P	40 - 140
Sucralose	82.8		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P374264

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

Reference Method: SM 2320 B-97
Batch ID: P374495

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	98 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P374500

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.6		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P374355

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	104		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P374233

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135411	Barium	100		P	80 - 120
2135411	Iron	93.8		P	80 - 120
2135411	Magnesium	95.0		P	80 - 120
2135411	Potassium	107		P	80 - 120
2135411	Sodium	96.4		P	80 - 120
2135411	Zinc	98.9		P	80 - 120
2135719	Barium	99.1	97.4	P/P	80 - 120
2135719	Calcium	91.5		P	80 - 120
2135719	Iron	93.9	96.1	P/P	80 - 120
2135719	Magnesium	93.9		P	80 - 120
2135719	Potassium	93.6	94.2	P/P	80 - 120
2135719	Sodium	91.2		P	80 - 120
2135719	Zinc	97.6	95.3	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P374233

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135411	Aluminum	92.8		P	80 - 120
2135411	Antimony	102		P	80 - 120
2135411	Arsenic	98.1		P	80 - 120
2135411	Boron	94.7		P	80 - 120
2135411	Cadmium	97.9		P	80 - 120
2135411	Chromium	95.9		P	80 - 120
2135411	Copper	95.6		P	80 - 120
2135411	Lead	92.9		P	80 - 120
2135411	Nickel	94.6		P	80 - 120
2135411	Selenium	93.3		P	80 - 120
2135411	Silver	97.2		P	80 - 120
2135411	Thallium	101		P	80 - 120
2135719	Aluminum	96.1	97.6	P/P	80 - 120
2135719	Antimony	102	103	P/P	80 - 120
2135719	Arsenic	101	103	P/P	80 - 120
2135719	Boron	98.1	100	P/P	80 - 120
2135719	Cadmium	99.3	99.8	P/P	80 - 120
2135719	Chromium	98.6	100	P/P	80 - 120
2135719	Copper	95.6	98.0	P/P	80 - 120
2135719	Lead	94.1	95.6	P/P	80 - 120
2135719	Nickel	97.8	98.6	P/P	80 - 120
2135719	Selenium	92.9	97.1	P/P	80 - 120
2135719	Silver	96.1	98.6	P/P	80 - 120
2135719	Thallium	112	106	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P374399

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135912	Chloride	97.2		P	90 - 110
2136001	Chloride	97.5		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P374402

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135912	Sulfate	96.8		P	90 - 110
2136001	Sulfate	95.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P374462

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135942	Ammonia-N	100	99.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P374519

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135929	Kjeldahl Nitrogen	98.0	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P374284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135931	NO2NO3-N	99.0	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P374706

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135669	Total-P	100	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P374274

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135904	O-Phosphate-P	95.0	96.3	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P374273

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135974	Acetochlor	97.4	92.8	P/P	63 - 129
2135974	Alachlor	104	94.3	P/P	65 - 127
2135974	Ametryn	98.3	89.7	P/P	40 - 164
2135974	Atrazine	107	110	P/P	66 - 135
2135974	Atrazine Desethyl	61.3	83.8	P/P	14 - 157
2135974	Azinphos Methyl	89.1	75.3	P/P	49 - 180
2135974	Butylate	54.2	64.5	P/P	10 - 94.0
2135974	Chlorpyrifos Ethyl	88.9	93.6	P/P	58 - 123
2135974	Chlorpyrifos Methyl	95.8	103	P/P	58 - 125
2135974	Cyanazine	80.3	132	P/P	24 - 253
2135974	Demeton	82.6	95.6	P/P	25 - 149
2135974	Diazinon	103	102	P/P	59 - 144
2135974	Dimethenamid	97.0	87.5	P/P	46 - 139
2135974	Disulfoton	96.0	110	P/P	54 - 132
2135974	EPTC	52.4	65.6	P/P	10 - 92.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P374273

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135974	Ethion	101	92.8	P/P	30 - 148
2135974	Ethoprop	89.6	107	P/P	50 - 130
2135974	Fenamiphos	86.0	74.4	P/P	49 - 142
2135974	Fipronil	75.1	77.3	P/P	46 - 140
2135974	Fipronil Desulfinyl	80.6	93.9	P/P	30 - 121
2135974	Fipronil Sulfide	71.7	82.7	P/P	31 - 136
2135974	Fipronil Sulfone	49.2	65.3	P/P	16 - 136
2135974	Fonofos	86.8	108	P/P	55 - 129
2135974	Hexazinone	103	107	P/P	56 - 141
2135974	Malathion	102	70.1	P/P	56 - 135
2135974	Metalaxyl	132	106	P/P	54 - 135
2135974	Metribuzin	130	206	P/P	45 - 254
2135974	Mevinphos	68.3	72.9	P/P	33 - 131
2135974	Molinate	67.4	83.5	P/P	14 - 98.0
2135974	Oxadiazon	152	121	F/F	67 - 116
2135974	Parathion Ethyl	95.5	97.5	P/P	66 - 118
2135974	Parathion Methyl	106	114	P/P	64 - 136
2135974	Pendimethalin	101	101	P/P	59 - 144
2135974	Phorate	89.9	96.0	P/P	42 - 130
2135974	Prodiamine	106	94.9	P/P	42 - 148
2135974	Prometon	93.9	85.2	P/P	59 - 134
2135974	Prometryn	100	93.1	P/P	54 - 135
2135974	Simazine	110	115	P/P	53 - 156
2135974	Tebuconazole	72.1	32.6	P/P	10 - 131
2135974	Terbufos	92.3	107	P/P	57 - 131
2135974	Terbutylazine	98.0	96.3	P/P	68 - 125

Reference Method: EPA 8270E
Batch ID: P374719

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2137172	Dithiopyr	77.8	80.1	P/P	64 - 130

Reference Method: EPA 8321B
Batch ID: P374121

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135814	2,4-D	108	133	P/P	40 - 160
2135814	Acetaminophen	110	112	P/P	30 - 160
2135814	Acetamiprid	108	109	P/P	40 - 160
2135814	Afidopyropen	142	105	P/P	40 - 160
2135814	Benzovindiflupyr	86.8	88.8	P/P	40 - 160
2135814	Carbamazepine	104	94.1	P/P	40 - 160
2135814	Clothianidin	94.4	87.9	P/P	40 - 160
2135814	Dinotefuran	115	107	P/P	40 - 160
2135814	Diuron	81.5	74.5	P/P	40 - 160
2135814	Fenuron	96.5	96.6	P/P	40 - 160
2135814	Fluridone	95.0	94.3	P/P	40 - 160
2135814	Hydrocodone	117	114	P/P	40 - 160
2135814	Ibuprofen	81.6	81.6	P/P	30 - 160
2135814	Imazapyr	144	151	P/P	40 - 160
2135814	Imidacloprid	182	172	F/F	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P374121

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135814	Linuron	84.9	82.1	P/P	40 - 160
2135814	Mandestrobin	94.5	94.1	P/P	40 - 160
2135814	MCPP	117	134	P/P	40 - 160
2135814	Naproxen	74.4	72.7	P/P	40 - 160
2135814	Primidone	102	111	P/P	40 - 160
2135814	Pyraclostrobin	86.0	70.8	P/P	30 - 160
2135814	Thiamethoxam	154	143	P/P	40 - 160
2135814	Tolfenpyrad	47.5	43.6	P/P	40 - 160
2135814	Triclopyr	67.2	75.0	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P374205

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135449	Acesulfame K	111	116	P/P	40 - 150
2135449	AMPA	86.8	96.6	P/P	40 - 150
2135449	Endothall	117	122	P/P	40 - 150
2135449	Glufosinate	81.1	81.8	P/P	40 - 150
2135449	Glyphosate	63.2	64.0	P/P	40 - 140
2135449	Sucralose	27.3	28.2	F/F	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P374500

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2136193	Fluoride	99.4	99.4	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P374355

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2135902	Organic Carbon	101	101	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P374247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135966	Turbidity	2.12	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P374233

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135719	Barium	1.57	Spike	P	0 - 20
2135719	Calcium	0.176	Spike	P	0 - 20
2135719	Iron	2.29	Spike	P	0 - 20
2135719	Magnesium	1.59	Spike	P	0 - 20
2135719	Potassium	0.343	Spike	P	0 - 20
2135719	Sodium	0.511	Spike	P	0 - 20
2135719	Zinc	2.39	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P374233

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135719	Aluminum	1.47	Spike	P	0 - 20
2135719	Antimony	0.406	Spike	P	0 - 20
2135719	Arsenic	2.15	Spike	P	0 - 20
2135719	Boron	1.50	Spike	P	0 - 20
2135719	Cadmium	0.450	Spike	P	0 - 20
2135719	Chromium	1.41	Spike	P	0 - 20
2135719	Copper	2.32	Spike	P	0 - 20
2135719	Lead	1.60	Spike	P	0 - 20
2135719	Nickel	0.818	Spike	P	0 - 20
2135719	Selenium	4.48	Spike	P	0 - 20
2135719	Silver	2.53	Spike	P	0 - 20
2135719	Thallium	5.92	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P374399

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135912	Chloride	2.59	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P374402

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135912	Sulfate	0.581	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P374462

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135942	Ammonia-N	0.192	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P374519

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135929	Kjeldahl Nitrogen	8.04	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P374284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135931	NO2NO3-N	0.471	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P374706

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135669	Total-P	0.425	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P374274

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135904	O-Phosphate-P	1.36	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P374273

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135974	Acetochlor	4.84	Spike	P	0 - 30
2135974	Alachlor	9.91	Spike	P	0 - 30
2135974	Ametryn	9.16	Spike	P	0 - 30
2135974	Atrazine	2.17	Spike	P	0 - 30
2135974	Atrazine Desethyl	31.1	Spike	F	0 - 30
2135974	Azinphos Methyl	16.8	Spike	P	0 - 30
2135974	Bromacil	5.00	Spike	P	0 - 30
2135974	Butylate	17.3	Spike	P	0 - 30
2135974	Chlorpyrifos Ethyl	5.09	Spike	P	0 - 30
2135974	Chlorpyrifos Methyl	7.27	Spike	P	0 - 30
2135974	Cyanazine	48.5	Spike	F	0 - 30
2135974	Demeton	14.7	Spike	P	0 - 30
2135974	Diazinon	1.06	Spike	P	0 - 30
2135974	Dimethenamid	10.4	Spike	P	0 - 30
2135974	Disulfoton	13.6	Spike	P	0 - 30
2135974	EPTC	22.4	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P374273

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135974	Ethion	8.49	Spike	P	0 - 30
2135974	Ethoprop	18.0	Spike	P	0 - 30
2135974	Fenamiphos	14.4	Spike	P	0 - 30
2135974	Fipronil	2.83	Spike	P	0 - 30
2135974	Fipronil Desulfinyl	15.2	Spike	P	0 - 30
2135974	Fipronil Sulfide	14.3	Spike	P	0 - 30
2135974	Fipronil Sulfone	28.1	Spike	P	0 - 30
2135974	Fonofos	21.7	Spike	P	0 - 30
2135974	Hexazinone	3.89	Spike	P	0 - 30
2135974	Malathion	36.9	Spike	F	0 - 30
2135974	Metaxyl	11.8	Spike	P	0 - 30
2135974	Metolachlor	8.43	Spike	P	0 - 30
2135974	Metribuzin	45.0	Spike	F	0 - 30
2135974	Mevinphos	6.53	Spike	P	0 - 30
2135974	Molinate	21.4	Spike	P	0 - 30
2135974	Norflurazon	3.87	Spike	P	0 - 30
2135974	Oxadiazon	9.55	Spike	P	0 - 30
2135974	Parathion Ethyl	2.12	Spike	P	0 - 30
2135974	Parathion Methyl	7.24	Spike	P	0 - 30
2135974	Pendimethalin	0.887	Spike	P	0 - 30
2135974	Phorate	6.55	Spike	P	0 - 30
2135974	Prodiamine	11.3	Spike	P	0 - 30
2135974	Prometon	9.68	Spike	P	0 - 30
2135974	Prometryn	7.12	Spike	P	0 - 30
2135974	Simazine	4.93	Spike	P	0 - 30
2135974	Tebuconazole	75.5	Spike	F	0 - 30
2135974	Terbufos	14.7	Spike	P	0 - 30
2135974	Terbutylazine	1.74	Spike	P	0 - 30
LFB	Acetochlor	3.84	LCS	P	0 - 30
LFB	Alachlor	1.52	LCS	P	0 - 30
LFB	Ametryn	8.75	LCS	P	0 - 30
LFB	Atrazine	15.4	LCS	P	0 - 30
LFB	Atrazine Desethyl	40.7	LCS	F	0 - 30
LFB	Azinphos Methyl	0.208	LCS	P	0 - 30
LFB	Bromacil	0.0130	LCS	P	0 - 30
LFB	Butylate	22.1	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	5.83	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	14.4	LCS	P	0 - 30
LFB	Cyanazine	62.9	LCS	F	0 - 30
LFB	Demeton	22.5	LCS	P	0 - 30
LFB	Diazinon	11.0	LCS	P	0 - 30
LFB	Dimethenamid	7.09	LCS	P	0 - 30
LFB	Disulfoton	23.8	LCS	P	0 - 30
LFB	EPTC	24.5	LCS	P	0 - 30
LFB	Ethion	2.47	LCS	P	0 - 30
LFB	Ethoprop	34.4	LCS	F	0 - 30
LFB	Fenamiphos	24.5	LCS	P	0 - 30
LFB	Fipronil	12.8	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	0.399	LCS	P	0 - 30
LFB	Fipronil Sulfide	0.265	LCS	P	0 - 30
LFB	Fipronil Sulfone	11.6	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P374273

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Fonofos	28.0	LCS	P	0 - 30
LFB	Hexazinone	1.38	LCS	P	0 - 30
LFB	Malathion	5.34	LCS	P	0 - 30
LFB	Metalaxyl	2.44	LCS	P	0 - 30
LFB	Metolachlor	4.78	LCS	P	0 - 30
LFB	Metribuzin	79.3	LCS	F	0 - 30
LFB	Mevinphos	37.2	LCS	F	0 - 30
LFB	Molinate	30.0	LCS	P	0 - 30
LFB	Norflurazon	9.67	LCS	P	0 - 30
LFB	Oxadiazon	5.26	LCS	P	0 - 30
LFB	Parathion Ethyl	14.0	LCS	P	0 - 30
LFB	Parathion Methyl	21.6	LCS	P	0 - 30
LFB	Pendimethalin	3.05	LCS	P	0 - 30
LFB	Phorate	25.1	LCS	P	0 - 30
LFB	Prodiamine	9.22	LCS	P	0 - 30
LFB	Prometon	11.9	LCS	P	0 - 30
LFB	Prometryn	3.95	LCS	P	0 - 30
LFB	Simazine	22.3	LCS	P	0 - 30
LFB	Tebuconazole	90.0	LCS	F	0 - 30
LFB	Terbufos	26.4	LCS	P	0 - 30
LFB	Terbutylazine	9.15	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P374719

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2137172	Dithiopyr	2.77	Spike	P	0 - 30
LFB	Dithiopyr	3.92	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P374121

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135814	2,4-D	18.6	Spike	P	0 - 30
2135814	Acetaminophen	1.61	Spike	P	0 - 30
2135814	Acetamiprid	0.825	Spike	P	0 - 30
2135814	Afidopyropen	30.1	Spike	F	0 - 30
2135814	Bentazon	5.69	Spike	P	0 - 30
2135814	Benzovindiflupyr	2.27	Spike	P	0 - 30
2135814	Carbamazepine	9.84	Spike	P	0 - 30
2135814	Clothianidin	7.16	Spike	P	0 - 30
2135814	Dinotefuran	6.73	Spike	P	0 - 30
2135814	Diuron	8.60	Spike	P	0 - 30
2135814	Fenuron	0.0609	Spike	P	0 - 30
2135814	Fluridone	0.545	Spike	P	0 - 30
2135814	Hydrocodone	2.90	Spike	P	0 - 30
2135814	Ibuprofen	0.000883	Spike	P	0 - 30
2135814	Imazapyr	2.79	Spike	P	0 - 30
2135814	Imidacloprid	4.61	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P374121

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135814	Linuron	3.42	Spike	P	0 - 30
2135814	Mandestrobin	0.386	Spike	P	0 - 30
2135814	MCP	13.0	Spike	P	0 - 30
2135814	Naproxen	2.37	Spike	P	0 - 30
2135814	Primidone	8.16	Spike	P	0 - 30
2135814	Pyraclostrobin	19.4	Spike	P	0 - 30
2135814	Thiamethoxam	7.39	Spike	P	0 - 30
2135814	Tolfenpyrad	8.63	Spike	P	0 - 30
2135814	Triclopyr	11.0	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P374205

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135449	Acesulfame K	4.65	Spike	P	0 - 30
2135449	AMPA	6.06	Spike	P	0 - 30
2135449	Endothall	4.23	Spike	P	0 - 30
2135449	Glufosinate	0.872	Spike	P	0 - 30
2135449	Glyphosate	0.602	Spike	P	0 - 30
2135449	Sucralose	3.18	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P374264

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135926	Color (true)	2.66	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P374495

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2136193	Total Alkalinity	0.393	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
Batch ID: P374829

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135941	TDS	0.489	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P374500

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2136193	Fluoride	0.0	Spike	P	0 - 2.5

Quality Assurance Report Precision

Reference Method: SM 5310 B-00
Batch ID: P374355

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2135902	Organic Carbon	0.434	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2135972
Field Sample ID: G2SW0099

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	90.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	111	P	30 - 160
EPA 8321B	Carbamazepine-d10	99.4	P	30 - 160
EPA 8321B	Diuron-d6	83.9	P	30 - 160
EPA 8321B	Endothall-d6	109	P	30 - 160
EPA 8321B	Endothall-d6	109	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	113	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	113	P	30 - 160
EPA 8321B	Ibuprofen-d3	98.8	P	30 - 160
EPA 8321B	Primidone-d5	99.1	P	30 - 160
EPA 8321B	Sucralose-d6	109	P	30 - 160
EPA 8321B	Sucralose-d6	109	P	30 - 160

Lab Sample ID: 2135974
Field Sample ID: G2SW0099

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	108	P	68 - 130
EPA 8270E	Simazine-d10	109	P	68 - 130
EPA 8270E	Terbufos-d10	99.2	P	61 - 136
EPA 8270E	Terbufos-d10	102	P	61 - 136

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A95743

Included Lab Sample IDs: 2135966

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	98.5	P/P	95 - 105

Reference Method: SM 2120 B

Run ID: A95748

Included Lab Sample IDs: 2135966

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A95752

Included Lab Sample IDs: 2135967

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A95753

Included Lab Sample IDs: 2135968

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.9	97.7	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A95765

Included Lab Sample IDs: 2135966

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	99.9	P/P	90 - 110
Sulfate	102	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A95779

Included Lab Sample IDs: 2135972

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	104	79.4	P/P	50 - 150
Acetaminophen	116	108	P/P	60 - 160
Acetamiprid	108	110	P/P	50 - 150
Afidopyropen	105	85.7	P/P	50 - 150
Bentazon	108	110	P/P	50 - 160
Benzovindiflupyr	103	101	P/P	50 - 150
Carbamazepine	118	120	P/P	60 - 150
Clothianidin	85.9	97.0	P/P	60 - 150
Dinotefuran	102	98.9	P/P	50 - 150
Diuron	113	107	P/P	60 - 150
Fenuron	114	117	P/P	60 - 150
Fluridone	114	114	P/P	60 - 160
Hydrocodone	121	122	P/P	60 - 150
Ibuprofen	79.3	95.3	P/P	50 - 160
Imazapyr	112	120	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A95779
Included Lab Sample IDs: 2135972

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Imidacloprid	101	93.6	P/P	60 - 150
Linuron	114	115	P/P	60 - 150
Mandestrobin	113	110	P/P	50 - 150
MCPP	97.0	92.1	P/P	50 - 150
Naproxen	74.9	102	P/P	50 - 160
Primidone	108	99.8	P/P	60 - 150
Pyraclostrobin	86.8	98.0	P/P	60 - 150
Thiamethoxam	101	108	P/P	50 - 150
Tolfenpyrad	121	86.8	P/P	60 - 150
Triclopyr	99.6	96.5	P/P	50 - 150

Reference Method: SM 5310 B-00
Run ID: A95788
Included Lab Sample IDs: 2135967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	106	106	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A95796
Included Lab Sample IDs: 2135973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	99.4	101	P/P	90 - 110
Calcium	99.0	99.4	P/P	90 - 110
Iron	99.6	99.2	P/P	90 - 110
Magnesium	102	102	P/P	90 - 110
Potassium	95.6	95.6	P/P	90 - 110
Sodium	99.3	99.8	P/P	90 - 110
Zinc	98.7	100	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A95814
Included Lab Sample IDs: 2135972

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	101	100	P/P	60 - 160
Endothall	111	102	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A95818
Included Lab Sample IDs: 2135972

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	71.2	84.0	P/P	60 - 160
Glufosinate	109	107	P/P	60 - 160
Glyphosate	102	105	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A95834

Included Lab Sample IDs: 2135967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.7	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A95843

Included Lab Sample IDs: 2135966

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	98.4	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A95843

Included Lab Sample IDs: 2135966

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

Reference Method: EPA 8321B

Run ID: A95849

Included Lab Sample IDs: 2135972

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	108	103	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A95873

Included Lab Sample IDs: 2135973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	100	99.7	P/P	90 - 110
Antimony	101	99.6	P/P	90 - 110
Arsenic	102	102	P/P	90 - 110
Boron	99.9	102	P/P	90 - 110
Cadmium	102	101	P/P	90 - 110
Copper	104	104	P/P	90 - 110
Lead	96.2	95.4	P/P	90 - 110
Nickel	104	103	P/P	90 - 110
Selenium	101	99.3	P/P	90 - 110
Silver	100	99.1	P/P	90 - 110
Thallium	98.4	96.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A95884

Included Lab Sample IDs: 2135967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.2	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A95903
Included Lab Sample IDs: 2135974

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	104		P	80 - 120
Alachlor	110		P	80 - 120
Ametryn	103		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	90.7		P	80 - 120
Azinphos Methyl	95.6		P	80 - 120
Butylate	115		P	80 - 120
Chlorpyrifos Ethyl	95.8		P	80 - 120
Chlorpyrifos Methyl	98.0		P	80 - 120
Cyanazine	80.7		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	104		P	80 - 120
Dimethenamid	107		P	80 - 120
Disulfoton	104		P	80 - 120
EPTC	99.4		P	80 - 120
Ethion	93.4		P	80 - 120
Ethoprop	103		P	80 - 120
Fenamiphos	94.0		P	80 - 120
Fipronil	104		P	80 - 120
Fipronil Desulfinyl	108		P	80 - 120
Fipronil Sulfide	97.8		P	80 - 120
Fipronil Sulfone	99.0		P	80 - 120
Fonofos	102		P	80 - 120
Hexazinone	104		P	80 - 120
Malathion	96.7		P	80 - 120
Metaxyl	105		P	80 - 120
Metolachlor	108		P	80 - 120
Metribuzin	85.0		P	80 - 120
Mevinphos	83.2		P	80 - 120
Molinate	104		P	80 - 120
Norflurazon	104		P	80 - 120
Oxadiazon	106		P	80 - 120
Parathion Ethyl	98.7		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	97.2		P	80 - 120
Phorate	92.8		P	80 - 120
Prodiamine	94.2		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	106		P	80 - 120
Simazine	98.5		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	95.5		P	80 - 120
Terbuthylazine	99.6		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A95924
Included Lab Sample IDs: 2135973

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	95.7	97.1	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A95968

Included Lab Sample IDs: 2135967

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.7	99.9	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A96103

Included Lab Sample IDs: 2135974

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	115		P	80 - 120

Reference Method: EPA 8270E

Run ID: A96144

Included Lab Sample IDs: 2135974

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dithiopyr	100		P	80 - 120

* 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								2.12	
EPA 200.7 Rev. 4.4	Barium	101			100	99.1	97.4			1.57
	Calcium	91.8			91.5					0.176
	Iron	94.3			93.8	93.9	96.1			2.29
	Magnesium	93.1			95.0	93.9				1.59
	Potassium	97.8			107	93.6	94.2			0.343
	Sodium	90.4			96.4	91.2				0.511
	Zinc	98.7			98.9	97.6	95.3			2.39
EPA 200.8 Rev. 5.4	Aluminum	96.7			92.8	96.1	97.6			1.47
	Antimony	101			102	102	103			0.406
	Arsenic	98.8			98.1	101	103			2.15
	Boron	96.0			94.7	98.1	100			1.50
	Cadmium	97.1			97.9	99.3	99.8			0.450
	Chromium	99.0			95.9	98.6	100			1.41
	Copper	99.6			95.6	95.6	98.0			2.32
	Lead	93.3			92.9	94.1	95.6			1.60
	Nickel	99.2			94.6	97.8	98.6			0.818
	Selenium	95.5			93.3	92.9	97.1			4.48
	Silver	97.9			97.2	96.1	98.6			2.53
	Thallium	100			101	112	106			5.92
EPA 300.0 Rev. 2.1	Chloride	98.9			97.2	97.5			2.59	
	Sulfate	98.7			96.8	95.2			0.581	
EPA 350.1 Rev. 2.0	Ammonia-N	99.2			100	99.9				0.192
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101			98.0	108				8.04
EPA 353.2 Rev. 2.0	NO2NO3-N	101			99.0	99.5				0.471
EPA 365.1 Rev. 2.0	Total-P	101			100	101				0.425
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	95.8			95.0	96.3				1.36
EPA 8270E	Acetochlor	101	97.3		97.4	92.8		3.84		4.84
	Alachlor	104	102		104	94.3		1.52		9.91
	Ametryn	101	93.0		98.3	89.7		8.75		9.16
	Atrazine	101	118		107	110		15.4		2.17
	Atrazine Desethyl	76.8	116		61.3	83.8		40.7		31.1
	Azinphos Methyl	102	102		89.1	75.3		0.208		16.8
	Bromacil	89.3	89.3					0.0130		5.00
	Butylate	52.6	65.7		54.2	64.5		22.1		17.3
	Chlorpyrifos Ethyl	97.2	103		88.9	93.6		5.83		5.09
	Chlorpyrifos Methyl	95.5	110		95.8	103		14.4		7.27
	Cyanazine	92.7	178		80.3	132		62.9		48.5
	Demeton	81.4	102		82.6	95.6		22.5		14.7
	Diazinon	98.8	110		103	102		11.0		1.06
	Dimethenamid	98.9	92.1		97.0	87.5		7.09		10.4
	Disulfoton	95.6	121		96.0	110		23.8		13.6
	Dithiopyr	80.7	83.9		77.8	80.1		3.92		2.77
	EPTC	54.0	69.1		52.4	65.6		24.5		22.4
	Ethion	105	103		101	92.8		2.47		8.49
	Ethoprop	81.1	115		89.6	107		34.4		18.0
	Fenamiphos	109	85.4		86.0	74.4		24.5		14.4
	Fipronil	106	93.6		75.1	77.3		12.8		2.83
	Fipronil Desulfinyl	110	110		80.6	93.9		0.399		15.2
	Fipronil Sulfide	95.9	95.6		71.7	82.7		0.265		14.3
	Fipronil Sulfone	92.8	82.6		49.2	65.3		11.6		28.1
	Fonofos	85.5	113		86.8	108		28.0		21.7
	Hexazinone	111	112		103	107		1.38		3.89
	Malathion	106	101		102	70.1		5.34		36.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Metalaxyl	101	98.6	132	106	2.44	11.8
	Metolachlor	102	97.5			4.78	8.43
	Metribuzin	98.6	228	130	206	79.3	45.0
	Mevinphos	53.7	78.3	68.3	72.9	37.2	6.53
	Molinate	59.9	81.1	67.4	83.5	30.0	21.4
	Norflurazon	112	102			9.67	3.87
	Oxadiazon	97.2	92.3	152	121	5.26	9.55
	Parathion Ethyl	95.8	110	95.5	97.5	14.0	2.12
	Parathion Methyl	104	129	106	114	21.6	7.24
	Pendimethalin	102	105	101	101	3.05	0.887
	Phorate	85.3	110	89.9	96.0	25.1	6.55
	Prodiamine	108	98.3	106	94.9	9.22	11.3
	Prometon	104	92.5	93.9	85.2	11.9	9.68
	Prometryn	106	102	100	93.1	3.95	7.12
	Simazine	101	126	110	115	22.3	4.93
	Tebuconazole	75.7	28.7	72.1	32.6	90.0	75.5
	Terbufos	88.9	116	92.3	107	26.4	14.7
	Terbuthylazine	98.1	107	98.0	96.3	9.15	1.74
EPA 8321B	2,4-D	134		108	133		18.6
	Acesulfame K	95.5		111	116		4.65
	Acetaminophen	95.4		112	110		1.61
	Acetamiprid	92.2		108	109		0.825
	Afidopyropen	90.6		142	105		30.1
	AMPA	141		86.8	96.6		6.06
	Bentazon	78.3					5.69
	Benzovindiflupyr	83.0		86.8	88.8		2.27
	Carbamazepine	103		104	94.1		9.84
	Clothianidin	71.8		94.4	87.9		7.16
	Dinotefuran	85.9		107	115		6.73
	Diuron	79.4		81.5	74.5		8.60
	Endothall	68.0		117	122		4.23
	Fenuron	106		96.5	96.6		0.0609
	Fluridone	90.5		95.0	94.3		0.545
	Glufosinate	111		81.1	81.8		0.872
	Glyphosate	129		63.2	64.0		0.602
	Hydrocodone	104		114	117		2.90
	Ibuprofen	93.2		81.6	81.6		0.0008
	Imazapyr	108		144	151		2.79
	Imidacloprid	115		182	172		4.61
	Linuron	80.4		84.9	82.1		3.42
	Mandestrobin	89.3		94.5	94.1		0.386
	MCPP	134		117	134		13.0
	Naproxen	58.5		74.4	72.7		2.37
	Primidone	88.2		111	102		8.16
	Pyraclostrobin	75.1		86.0	70.8		19.4
	Sucralose	82.8		27.3	28.2		3.18
	Thiamethoxam	96.8		154	143		7.39
	Tolfenpyrad	67.4		47.5	43.6		8.63
	Triclopyr	82.0		67.2	75.0		11.0
SM 2120 B	Color (true)	101				2.66	
SM 2320 B-97	Total Alkalinity	101				0.393	
SM 2540 C-97	TDS					0.489	
SM 4500 F-C-97	Fluoride	98.6		99.4	99.4		0.0
SM 5310 B-00	Organic Carbon	104		101	101		0.434

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2135966
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2135973
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2135973
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2135966
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2135966
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2135967
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2135967
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2135967
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2135967
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2135968
EPA 8270E / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2135974
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2135972
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2135972
SM 2120 B / E31780	True Color measured at 450 nm	2135966
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2135966
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2135966
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2135966
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2135966
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2135967

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	11/14/2019			11/14/2019 17:30	Blanca Fach	2135966
EPA 200.7 Rev. 4.4	11/14/2019	11/14/2019 15:00	Elliott D. Healy	11/18/2019 15:25	Betina Topolski	2135973
EPA 200.8 Rev. 5.4	11/14/2019	11/14/2019 15:00	Elliott D. Healy	11/21/2019 07:15	Justin Cutchin	2135973
	11/14/2019	11/14/2019 15:00	Elliott D. Healy	11/22/2019 17:54	Robert K Palmer	2135973
EPA 300.0 Rev. 2.1	11/14/2019			11/18/2019 18:10	Lipi Saha	2135966
EPA 350.1 Rev. 2.0	11/14/2019			11/19/2019 12:18	Ping Hua	2135967
EPA 351.2 Rev. 2.0	11/14/2019	11/20/2019 12:30	Sima Feizi	11/21/2019 16:59	Jhamieka S. Greenwood	2135967
EPA 353.2 Rev. 2.0	11/14/2019			11/15/2019 10:03	Beverly Y. Sanders	2135967
EPA 365.1 Rev. 2.0	11/14/2019	11/22/2019 13:04	Yen Ta	11/26/2019 13:46	Benjamin T. Nordmann	2135967
EPA 365.1 Rev. 2.0 dissolved	11/14/2019			11/14/2019 16:46	Samantha Davila	2135968
EPA 8270E	11/14/2019	11/18/2019 08:00	Fe-Val Siddell	11/19/2019 15:01	Vandana T. Nagar	2135974
	11/14/2019	11/18/2019 08:00	Fe-Val Siddell	11/22/2019 10:02	Vandana T. Nagar	2135974
	11/14/2019	11/23/2019 11:30	Rasheda Ghaffari	11/26/2019 17:39	Vandana T. Nagar	2135974
EPA 8321B	11/14/2019	11/14/2019 14:00	Hoor Shaik	11/16/2019 07:45	Juyoung Kim	2135972
	11/14/2019	11/14/2019 14:30	Rebecca Ware	11/15/2019 14:51	Rebecca Ware	2135972
	11/14/2019	11/14/2019 14:30	Rebecca Ware	11/18/2019 14:58	Rebecca Ware	2135972
	11/14/2019	11/14/2019 14:30	Rebecca Ware	11/19/2019 18:05	Rebecca Ware	2135972
SM 2120 B	11/14/2019			11/14/2019 16:17	Madeline Funaro	2135966
SM 2320 B-97	11/14/2019			11/16/2019 08:24	Dale L. Simmons	2135966
SM 2540 C-97	11/14/2019			11/15/2019 15:21	Yijie Li	2135966
SM 2540 D-97	11/14/2019			11/15/2019 15:21	Yijie Li	2135966
SM 4500 F-C-97	11/14/2019			11/16/2019 08:24	Dale L. Simmons	2135966
SM 5310 B-00	11/14/2019			11/15/2019 18:47	Lauren Lees	2135967