

Chemical Analysis Report

NE-DIST-2019-08-14-01

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

Event Description: **SCI Nassau and Bigfish**

Request ID: **RQ-2019-08-05-43**

Customer: **NE-DIST**

Project ID: **SMP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 11-SEP-2019 14:49

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular 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: 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: Unnamed Branch 400M downstream Barnes Farm Rd.

Collection Date/Time: 08/13/2019 09:40

Field ID: G2NE1204

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2111191	EPA 180.1 Rev. 2.0	Turbidity	19	A	NTU	P369074	
	EPA 300.0 Rev. 2.1	Chloride	120		mg Cl/L	P369493	
		Sulfate	200		mg SO4/L	P369496	
	SM 2120 B	Color (true)	110	A	PCU	P369051	
	SM 2320 B-97	Total Alkalinity	91		mg CaCO3/L	P369442	
	SM 2540 C-97	TDS	626	A	mg/L	P369722	
	SM 2540 D-97	TSS	8	IA	mg/L	P369476	
	SM 4500 F-C-97	Fluoride	0.31		mg F/L	P369445	
2111192	EPA 350.1 Rev. 2.0	Ammonia-N	0.13		mg N/L	P369592	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.93		mg N/L	P369223	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P369237	
	EPA 365.1 Rev. 2.0	Total-P	0.30		mg P/L	P369180	
	SM 5310 B-00	Organic Carbon	19		mg C/L	P369232	
2111193	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.12		mg P/L	P369093	
2111197	EPA 8321B	2,4-D	0.0020	U	ug/L	P369089	
		Acesulfame K**	0.10	U	ug/L	P369116	
		AMPA**	0.71		ug/L	P369116	
		Sucralose**	0.27		ug/L	P369116	
		Acetaminophen**	0.0080	U	ug/L	P369089	
		Endothall**	0.25	U	ug/L	P369116	
		Acetamiprid**	0.0020	U	ug/L	P369089	
		Glufosinate**	0.10	U	ug/L	P369116	
		Glyphosate**	0.10	U	ug/L	P369116	
		Afidopyropen**	0.0020	UJ	ug/L	P369089	
		Bentazon	0.0028	I	ug/L	P369089	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P369089	RPD
		Carbamazepine**	8.0E-04	U	ug/L	P369089	
		Clothianidin**	0.027		ug/L	P369089	
		Dinotefuran**	0.0020	U	ug/L	P369089	
		Diuron	0.0020	U	ug/L	P369089	
		Fenuron	0.016	U	ug/L	P369089	
		Fluridone**	8.0E-04	U	ug/L	P369089	
		Imazapyr**	0.14		ug/L	P369089	
		Hydrocodone**	0.0020	U	ug/L	P369089	
		Ibuprofen**	0.020	U	ug/L	P369089	
		Imidacloprid	0.041		ug/L	P369089	
		Linuron	0.0040	U	ug/L	P369089	
		Mandestrobin**	0.0020	UJ	ug/L	P369089	
		MCPP	0.0020	U	ug/L	P369089	
		Naproxen**	0.0080	U	ug/L	P369089	RPD
		Primidone**	0.0040	U	ug/L	P369089	
		Pyraclostrobin**	0.0020	U	ug/L	P369089	RPD

Field ID: G2NE1204

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2111197	EPA 8321B	Thiamethoxam**	0.18		ug/L	P369089	
		Tolfenpyrad**	0.0020	UJ	ug/L	P369089	LCS, MS
		Triclopyr**	0.0040	U	ug/L	P369089	
2111198	EPA 200.7 Rev. 4.4	Barium	27.9		ug/L	P369121	
		Calcium	102		mg/L	P369121	
		Iron	2.21E+03		ug/L	P369121	
		Magnesium	28.1		mg/L	P369121	
		Potassium	6.3		mg/L	P369121	
		Sodium	56.7		mg/L	P369121	
		Zinc	5.0	U	ug/L	P369121	
	EPA 200.8 Rev. 5.4	Aluminum	185		ug/L	P369121	
		Antimony	0.10	I	ug/L	P369121	
		Arsenic	1.27		ug/L	P369121	
		Boron**	85.9		ug/L	P369121	
		Cadmium	0.023	I	ug/L	P369121	
		Chromium	0.83	I	ug/L	P369121	
		Copper	0.66	I	ug/L	P369121	
		Lead	0.37	I	ug/L	P369121	
		Nickel	0.63	I	ug/L	P369121	
		Selenium	0.20	U	ug/L	P369121	
		Silver	0.010	U	ug/L	P369121	
		Thallium	0.10	U	ug/L	P369121	
2111199	EPA 8270E	Acetochlor	0.27	U	ng/L	P369004	
		Alachlor	0.27	U	ng/L	P369004	
		Ametryn	0.64	U	ng/L	P369004	
		Atrazine	0.37	I	ng/L	P369004	
		Atrazine Desethyl	1.6	U	ng/L	P369004	
		Azinphos Methyl	5.4	U	ng/L	P369004	
		Bromacil	4.0		ng/L	P369004	
		Butylate	0.43	U	ng/L	P369004	
		Chlorpyrifos Ethyl	0.27	U	ng/L	P369004	
		Chlorpyrifos Methyl	0.11	U	ng/L	P369004	
		Cyanazine	3.5	UJ	ng/L	P369004	CCV
		Demeton	7.5	U	ng/L	P369004	
		Diazinon	0.13	U	ng/L	P369004	
		Dimethenamid**	0.11	U	ng/L	P369004	
		Disulfoton	0.54	U	ng/L	P369004	
		Dithiopyr**	0.11	U	ng/L	P369004	
		EPTC	7.1		ng/L	P369004	
		Ethion	0.16	U	ng/L	P369004	
		Ethoprop	0.11	U	ng/L	P369004	
		Fenamiphos	0.54	U	ng/L	P369004	
		Fipronil	0.27	U	ng/L	P369004	
		Fipronil Desulfinyl**	0.73		ng/L	P369004	
		Fipronil Sulfide	12		ng/L	P369004	

Field ID: G2NE1204

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2111199	EPA 8270E	Fipronil Sulfone	6.4		ng/L	P369004	
		Fonofos	0.21	U	ng/L	P369004	
		Hexazinone	0.54	U	ng/L	P369004	
		Malathion	0.38	U	ng/L	P369004	
		Metalaxyl	12		ng/L	P369004	
		Metolachlor	15		ng/L	P369004	
		Metribuzin	0.80	UJ	ng/L	P369004	CCV
		Mevinphos	0.54	U	ng/L	P369004	
		Molinate	0.32	U	ng/L	P369004	
		Norflurazon	0.54	U	ng/L	P369004	
		Oxadiazon**	0.14	I	ng/L	P369004	
		Parathion Ethyl	0.27	U	ng/L	P369004	
		Parathion Methyl	0.59	U	ng/L	P369004	
		Pendimethalin	1.1	U	ng/L	P369004	
		Phorate	0.27	U	ng/L	P369004	
		Prodiamine**	0.19	U	ng/L	P369004	
		Prometon	0.97	U	ng/L	P369004	
		Prometryn	0.21	U	ng/L	P369004	
		Simazine	0.54	U	ng/L	P369004	
		Tebuconazole**	0.54	U	ng/L	P369004	
		Terbufos	0.15	I	ng/L	P369004	
		Terbuthylazine	0.46	U	ng/L	P369004	

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 imidacloprid could not be assessed due to high concentration of parameter in the spiked sample. Matrix spike precision for tolfenpyad is not available due to low analyte recoveries. Refer to the narrative for an explanation of QC Codes.

EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the narrative for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P369074

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P369121

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: P369121

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: P369493

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P369496

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P369592

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: P369223

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P369237

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P369180

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P369093

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

Reference Method: EPA 8270E
Batch ID: P369004

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
Dithiopyr	0.10	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
Metalaxyl	0.30	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P369004

Component	Result	Code	Units
Metolachlor	0.50	U	ng/L
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 8321B
Batch ID: P369089

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

Reference Method: EPA 8321B
Batch ID: P369116

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P369116

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: P369051

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P369442

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

Reference Method: SM 2540 C-97
Batch ID: P369722

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P369476

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P369445

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P369232

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: P369121

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	103		P	85 - 115
Calcium	105		P	85 - 115
Iron	106		P	85 - 115
Magnesium	112		P	85 - 115
Potassium	108		P	85 - 115
Sodium	97.5		P	85 - 115
Zinc	100		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P369121

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.9		P	85 - 115
Antimony	98.7		P	85 - 115
Arsenic	101		P	85 - 115
Boron	101		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	99.6		P	85 - 115
Copper	99.2		P	85 - 115
Lead	101		P	85 - 115
Nickel	99.9		P	85 - 115
Selenium	96.4		P	85 - 115
Silver	100		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P369493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P369496

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P369592

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P369223

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	93.3		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P369237

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P369180

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P369093

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

Reference Method: EPA 8270E
 Batch ID: P369004

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	96.9	98.7	P/P	69 - 122
Alachlor	91.7	93.7	P/P	71 - 120
Ametryn	100	94.1	P/P	47 - 138
Atrazine	108	107	P/P	74 - 124
Atrazine Desethyl	102	93.1	P/P	38 - 138
Azinphos Methyl	98.1	92.5	P/P	69 - 154
Bromacil	92.3	90.6	P/P	39 - 121
Butylate	77.8	70.3	P/P	27 - 87.0
Chlorpyrifos Ethyl	99.0	96.7	P/P	69 - 118
Chlorpyrifos Methyl	96.0	93.4	P/P	70 - 120
Cyanazine	153	151	P/P	20 - 250
Demeton	70.7	79.2	P/P	39 - 118
Diazinon	95.3	96.5	P/P	68 - 127
Dimethenamid	102	101	P/P	66 - 125
Disulfoton	63.6	71.2	P/P	52 - 126
Dithiopyr	93.9	94.5	P/P	67 - 127
EPTC	74.1	62.7	P/P	24 - 88.0
Ethion	85.8	79.8	P/P	51 - 132
Ethoprop	94.0	93.4	P/P	58 - 117
Fenamiphos	94.5	95.0	P/P	38 - 139
Fipronil	93.4	91.5	P/P	61 - 124
Fipronil Desulfinyl	92.2	82.6	P/P	47 - 120
Fipronil Sulfide	95.9	78.9	P/P	56 - 119
Fipronil Sulfone	89.4	85.6	P/P	50 - 117
Fonofos	91.7	90.4	P/P	60 - 121
Hexazinone	106	107	P/P	55 - 137
Malathion	110	101	P/P	66 - 126
Metalaxyl	94.7	95.4	P/P	33 - 140
Metolachlor	93.4	92.2	P/P	69 - 119
Metribuzin	177	140	P/P	31 - 238
Mevinphos	102	103	P/P	42 - 113
Molinate	83.0	79.4	P/P	32 - 96.0
Norflurazon	92.2	87.1	P/P	54 - 123
Oxadiazon	88.3	86.6	P/P	63 - 128

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P369004

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Parathion Ethyl	94.8	95.6	P/P	72 - 111
Parathion Methyl	97.7	102	P/P	74 - 126
Pendimethalin	84.0	83.8	P/P	61 - 131
Phorate	88.2	93.1	P/P	51 - 115
Prodiamine	65.1	63.2	P/P	38 - 144
Prometon	91.9	91.6	P/P	54 - 119
Prometryn	91.0	90.3	P/P	63 - 120
Simazine	108	109	P/P	75 - 126
Tebuconazole	66.1	57.6	P/P	20 - 119
Terbufos	90.9	92.5	P/P	64 - 116
Terbuthylazine	99.0	96.8	P/P	73 - 117

Reference Method: EPA 8321B
Batch ID: P369089

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	75.3		P	40 - 160
Acetaminophen	68.2		P	30 - 160
Acetamiprid	76.8		P	40 - 160
Afidopyropen	58.1		P	40 - 160
Bentazon	90.0		P	30 - 160
Benzovindiflupyr	80.4		P	40 - 160
Carbamazepine	80.0		P	40 - 160
Clothianidin	77.5		P	40 - 160
Dinotefuran	78.6		P	40 - 160
Diuron	84.1		P	40 - 160
Fenuron	87.2		P	40 - 160
Fluridone	80.9		P	40 - 160
Hydrocodone	86.3		P	40 - 160
Ibuprofen	65.9		P	30 - 160
Imazapyr	91.3		P	40 - 160
Imidacloprid	82.8		P	40 - 160
Linuron	69.4		P	40 - 160
Mandestrobin	75.8		P	40 - 160
MCPP	70.2		P	40 - 160
Naproxen	66.0		P	40 - 160
Primidone	79.3		P	40 - 160
Pyraclostrobin	56.0		P	30 - 160
Thiamethoxam	85.5		P	40 - 160
Tolfenpyrad	32.2		F	40 - 160
Triclopyr	46.6		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P369116

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.7		P	40 - 150
AMPA	88.1		P	40 - 150
Endothall	98.1		P	40 - 150
Glufosinate	106		P	40 - 150
Glyphosate	106		P	40 - 140
Sucralose	82.9		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2120 B
Batch ID: P369051

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

Reference Method: SM 2320 B-97
Batch ID: P369442

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P369445

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P369232

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P369121

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111646	Barium	102	102	P/P	80 - 120
2111646	Calcium	105		P	80 - 120
2111646	Iron	104	106	P/P	80 - 120
2111646	Magnesium	106	107	P/P	80 - 120
2111646	Potassium	102	106	P/P	80 - 120
2111646	Sodium	99.3		P	80 - 120
2111646	Zinc	100	100	P/P	80 - 120
2111792	Barium	100		P	80 - 120
2111792	Calcium	103		P	80 - 120
2111792	Iron	105		P	80 - 120
2111792	Magnesium	104		P	80 - 120
2111792	Potassium	103		P	80 - 120
2111792	Sodium	99.1		P	80 - 120
2111792	Zinc	103		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P369121

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111646	Aluminum	97.1	95.8	P/P	80 - 120
2111646	Antimony	100	101	P/P	80 - 120
2111646	Arsenic	103	102	P/P	80 - 120
2111646	Boron	101	98.8	P/P	80 - 120
2111646	Cadmium	103	103	P/P	80 - 120
2111646	Chromium	101	99.9	P/P	80 - 120
2111646	Copper	98.4	98.3	P/P	80 - 120
2111646	Lead	103	101	P/P	80 - 120
2111646	Nickel	101	101	P/P	80 - 120
2111646	Selenium	95.5	94.9	P/P	80 - 120
2111646	Silver	101	98.6	P/P	80 - 120
2111646	Thallium	105	104	P/P	80 - 120
2111792	Aluminum	98.0		P	80 - 120
2111792	Antimony	101		P	80 - 120
2111792	Arsenic	104		P	80 - 120
2111792	Boron	99.5		P	80 - 120
2111792	Cadmium	102		P	80 - 120
2111792	Chromium	99.0		P	80 - 120
2111792	Copper	99.0		P	80 - 120
2111792	Lead	103		P	80 - 120
2111792	Nickel	99.6		P	80 - 120
2111792	Selenium	97.9		P	80 - 120
2111792	Silver	99.9		P	80 - 120
2111792	Thallium	107		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P369493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110889	Chloride	97.8	98.8	P/P	90 - 110
2111205	Chloride	98.9		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P369496

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110889	Sulfate	102	103	P/P	90 - 110
2111205	Sulfate	103		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P369592

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111111	Ammonia-N	98.6	99.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P369223

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111042	Kjeldahl Nitrogen	87.7	89.8	F/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P369237

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111111	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P369180

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111544	Total-P	106	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P369093

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111538	O-Phosphate-P	94.7	96.4	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P369004

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110513	Acetochlor	94.9	92.6	P/P	63 - 129
2110513	Alachlor	85.9	84.4	P/P	65 - 127
2110513	Ametryn	119	105	P/P	40 - 164
2110513	Atrazine Desethyl	70.6	77.5	P/P	14 - 157
2110513	Azinphos Methyl	80.6	70.1	P/P	49 - 180
2110513	Bromacil	91.3	90.8	P/P	48 - 130
2110513	Butylate	66.8	61.7	P/P	10 - 94.0
2110513	Chlorpyrifos Ethyl	80.6	80.3	P/P	58 - 123
2110513	Chlorpyrifos Methyl	83.1	78.9	P/P	58 - 125
2110513	Cyanazine	137	130	P/P	24 - 253
2110513	Demeton	88.9	85.5	P/P	25 - 149
2110513	Diazinon	97.9	93.7	P/P	59 - 144
2110513	Dimethenamid	93.8	90.8	P/P	46 - 139
2110513	Disulfoton	72.1	67.5	P/P	54 - 132
2110513	Dithiopyr	87.2	85.9	P/P	64 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
 Batch ID: P369004

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110513	EPTC	62.0	56.9	P/P	10 - 92.0
2110513	Ethion	65.4	49.3	P/P	30 - 148
2110513	Ethoprop	89.5	84.8	P/P	50 - 130
2110513	Fenamiphos	98.9	118	P/P	49 - 142
2110513	Fipronil	88.9	88.7	P/P	46 - 140
2110513	Fipronil Desulfinyl	77.0	69.5	P/P	30 - 121
2110513	Fipronil Sulfide	75.5	68.1	P/P	31 - 136
2110513	Fipronil Sulfone	75.7	65.3	P/P	16 - 136
2110513	Fonofos	82.2	80.6	P/P	55 - 129
2110513	Hexazinone	86.8	84.7	P/P	56 - 141
2110513	Malathion	101	91.1	P/P	56 - 135
2110513	Metalaxyl	73.7	72.5	P/P	54 - 135
2110513	Metolachlor	94.4	87.5	P/P	51 - 140
2110513	Metribuzin	163	166	P/P	45 - 254
2110513	Mevinphos	99.2	96.9	P/P	33 - 131
2110513	Molinate	83.9	77.3	P/P	14 - 98.0
2110513	Norflurazon	78.5	77.8	P/P	34 - 136
2110513	Oxadiazon	73.0	68.2	P/P	67 - 116
2110513	Parathion Ethyl	91.4	84.8	P/P	66 - 118
2110513	Parathion Methyl	97.6	94.2	P/P	64 - 136
2110513	Pendimethalin	84.5	81.7	P/P	59 - 144
2110513	Phorate	88.5	78.8	P/P	42 - 130
2110513	Prodiamine	60.2	53.3	P/P	42 - 148
2110513	Prometon	102	93.7	P/P	59 - 134
2110513	Prometryn	74.4	77.5	P/P	54 - 135
2110513	Simazine	94.2	102	P/P	53 - 156
2110513	Tebuconazole	45.1	36.0	P/P	10 - 131
2110513	Terbufos	90.2	86.9	P/P	57 - 131
2110513	Terbutylazine	92.5	89.4	P/P	68 - 125

Reference Method: EPA 8321B
 Batch ID: P369089

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111008	2,4-D	160	140	P/P	40 - 160
2111008	Acetaminophen	79.6	74.0	P/P	30 - 160
2111008	Acetamiprid	96.9	85.2	P/P	40 - 160
2111008	Afidopyropen	79.2	68.1	P/P	40 - 160
2111008	Bentazon	63.4	50.6	P/P	30 - 160
2111008	Benzovindiflupyr	46.4	90.4	P/P	40 - 160
2111008	Carbamazepine	93.6	76.7	P/P	40 - 160
2111008	Clothianidin	96.2	74.9	P/P	40 - 160
2111008	Dinotefuran	104	94.2	P/P	40 - 160
2111008	Diuron	91.6	81.2	P/P	40 - 160
2111008	Fenuron	89.0	82.8	P/P	40 - 160
2111008	Fluridone	75.5	76.1	P/P	40 - 160
2111008	Hydrocodone	101	97.9	P/P	40 - 160
2111008	Ibuprofen	82.8	83.5	P/P	30 - 160
2111008	Imazapyr	103	83.9	P/P	40 - 160
2111008	Linuron	71.3	64.7	P/P	40 - 160
2111008	Mandestrobin	80.7	76.4	P/P	40 - 160
2111008	MCP	160	152	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P369089

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111008	Naproxen	110	74.4	P/P	40 - 160
2111008	Primidone	105	86.6	P/P	40 - 160
2111008	Pyraclostrobin	32.7	72.5	P/P	30 - 160
2111008	Thiamethoxam	140	133	P/P	40 - 160
2111008	Tolfenpyrad	0.0	54.8	F/P	40 - 160
2111008	Triclopyr	119	114	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P369116

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110859	Acesulfame K	85.1	93.2	P/P	40 - 150
2110859	AMPA	90.6	85.8	P/P	40 - 150
2110859	Endothall	58.5	59.3	P/P	40 - 150
2110859	Glufosinate	103	98.0	P/P	40 - 150
2110859	Glyphosate	114	103	P/P	40 - 140
2110859	Sucralose	52.4	55.9	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P369445

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111620	Fluoride	96.3	96.9	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P369232

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111211	Organic Carbon	102	101	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P369074

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111191	Turbidity	6.38	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P369121

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111646	Barium	0.0839	Spike	P	0 - 20
2111646	Calcium	0.693	Spike	P	0 - 20
2111646	Iron	2.07	Spike	P	0 - 20
2111646	Magnesium	1.23	Spike	P	0 - 20
2111646	Potassium	2.24	Spike	P	0 - 20
2111646	Sodium	0.315	Spike	P	0 - 20
2111646	Zinc	0.0742	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P369121

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111646	Aluminum	1.21	Spike	P	0 - 20
2111646	Antimony	0.177	Spike	P	0 - 20
2111646	Arsenic	0.311	Spike	P	0 - 20
2111646	Boron	2.01	Spike	P	0 - 20
2111646	Cadmium	0.686	Spike	P	0 - 20
2111646	Chromium	0.866	Spike	P	0 - 20
2111646	Copper	0.0887	Spike	P	0 - 20
2111646	Lead	1.81	Spike	P	0 - 20
2111646	Nickel	0.308	Spike	P	0 - 20
2111646	Selenium	0.578	Spike	P	0 - 20
2111646	Silver	2.22	Spike	P	0 - 20
2111646	Thallium	0.844	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P369493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110889	Chloride	0.873	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P369496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110889	Sulfate	0.600	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P369592

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111111	Ammonia-N	0.497	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P369223

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111042	Kjeldahl Nitrogen	1.91	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P369237

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111111	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P369180

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111544	Total-P	2.28	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P369093

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111538	O-Phosphate-P	1.68	Spike	P	0 - 20

Reference Method: EPA 8270E
 Batch ID: P369004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110513	Acetochlor	2.46	Spike	P	0 - 30
2110513	Alachlor	1.73	Spike	P	0 - 30
2110513	Ametryn	12.4	Spike	P	0 - 30
2110513	Atrazine	1.11	Spike	P	0 - 30
2110513	Atrazine Desethyl	6.88	Spike	P	0 - 30
2110513	Azinphos Methyl	13.9	Spike	P	0 - 30
2110513	Bromacil	0.485	Spike	P	0 - 30
2110513	Butylate	7.86	Spike	P	0 - 30
2110513	Chlorpyrifos Ethyl	0.379	Spike	P	0 - 30
2110513	Chlorpyrifos Methyl	5.26	Spike	P	0 - 30
2110513	Cyanazine	5.12	Spike	P	0 - 30
2110513	Demeton	3.89	Spike	P	0 - 30
2110513	Diazinon	4.44	Spike	P	0 - 30
2110513	Dimethenamid	3.30	Spike	P	0 - 30
2110513	Disulfoton	6.64	Spike	P	0 - 30
2110513	Dithiopyr	1.57	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P369004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110513	EPTC	8.69	Spike	P	0 - 30
2110513	Ethion	28.0	Spike	P	0 - 30
2110513	Ethoprop	5.35	Spike	P	0 - 30
2110513	Fenamiphos	17.8	Spike	P	0 - 30
2110513	Fipronil	0.165	Spike	P	0 - 30
2110513	Fipronil Desulfinyl	8.31	Spike	P	0 - 30
2110513	Fipronil Sulfide	10.3	Spike	P	0 - 30
2110513	Fipronil Sulfone	8.30	Spike	P	0 - 30
2110513	Fonofos	2.00	Spike	P	0 - 30
2110513	Hexazinone	2.52	Spike	P	0 - 30
2110513	Malathion	10.5	Spike	P	0 - 30
2110513	Metaxyl	1.62	Spike	P	0 - 30
2110513	Metolachlor	7.68	Spike	P	0 - 30
2110513	Metribuzin	1.63	Spike	P	0 - 30
2110513	Mevinphos	2.30	Spike	P	0 - 30
2110513	Molinate	8.22	Spike	P	0 - 30
2110513	Norflurazon	0.885	Spike	P	0 - 30
2110513	Oxadiazon	5.54	Spike	P	0 - 30
2110513	Parathion Ethyl	7.49	Spike	P	0 - 30
2110513	Parathion Methyl	3.60	Spike	P	0 - 30
2110513	Pendimethalin	3.37	Spike	P	0 - 30
2110513	Phorate	11.5	Spike	P	0 - 30
2110513	Prodiamine	7.79	Spike	P	0 - 30
2110513	Prometon	8.60	Spike	P	0 - 30
2110513	Prometryn	4.12	Spike	P	0 - 30
2110513	Simazine	5.90	Spike	P	0 - 30
2110513	Tebuconazole	18.0	Spike	P	0 - 30
2110513	Terbufos	3.67	Spike	P	0 - 30
2110513	Terbutylazine	3.49	Spike	P	0 - 30
LFB	Acetochlor	1.86	LCS	P	0 - 30
LFB	Alachlor	2.24	LCS	P	0 - 30
LFB	Ametryn	6.25	LCS	P	0 - 30
LFB	Atrazine	0.863	LCS	P	0 - 30
LFB	Atrazine Desethyl	8.93	LCS	P	0 - 30
LFB	Azinphos Methyl	5.89	LCS	P	0 - 30
LFB	Bromacil	1.85	LCS	P	0 - 30
LFB	Butylate	10.0	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	2.29	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	2.73	LCS	P	0 - 30
LFB	Cyanazine	1.27	LCS	P	0 - 30
LFB	Demeton	11.4	LCS	P	0 - 30
LFB	Diazinon	1.30	LCS	P	0 - 30
LFB	Dimethenamid	1.33	LCS	P	0 - 30
LFB	Disulfoton	11.3	LCS	P	0 - 30
LFB	Dithiopyr	0.559	LCS	P	0 - 30
LFB	EPTC	16.8	LCS	P	0 - 30
LFB	Ethion	7.17	LCS	P	0 - 30
LFB	Ethoprop	0.644	LCS	P	0 - 30
LFB	Fenamiphos	0.540	LCS	P	0 - 30
LFB	Fipronil	2.03	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	11.0	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P369004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Fipronil Sulfide	19.5	LCS	P	0 - 30
LFB	Fipronil Sulfone	4.34	LCS	P	0 - 30
LFB	Fonofos	1.48	LCS	P	0 - 30
LFB	Hexazinone	1.58	LCS	P	0 - 30
LFB	Malathion	7.96	LCS	P	0 - 30
LFB	Metalaxyl	0.745	LCS	P	0 - 30
LFB	Metolachlor	1.28	LCS	P	0 - 30
LFB	Metribuzin	23.5	LCS	P	0 - 30
LFB	Mevinphos	1.14	LCS	P	0 - 30
LFB	Molinate	4.46	LCS	P	0 - 30
LFB	Norflurazon	5.72	LCS	P	0 - 30
LFB	Oxadiazon	1.96	LCS	P	0 - 30
LFB	Parathion Ethyl	0.777	LCS	P	0 - 30
LFB	Parathion Methyl	4.08	LCS	P	0 - 30
LFB	Pendimethalin	0.148	LCS	P	0 - 30
LFB	Phorate	5.40	LCS	P	0 - 30
LFB	Prodiamine	2.95	LCS	P	0 - 30
LFB	Prometon	0.319	LCS	P	0 - 30
LFB	Prometryn	0.728	LCS	P	0 - 30
LFB	Simazine	0.930	LCS	P	0 - 30
LFB	Tebuconazole	13.6	LCS	P	0 - 30
LFB	Terbufos	1.72	LCS	P	0 - 30
LFB	Terbuthylazine	2.19	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P369089

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111008	2,4-D	10.3	Spike	P	0 - 30
2111008	Acetaminophen	7.26	Spike	P	0 - 30
2111008	Acetamiprid	12.4	Spike	P	0 - 30
2111008	Afidopyropen	15.0	Spike	P	0 - 30
2111008	Bentazon	9.63	Spike	P	0 - 30
2111008	Benzovindiflupyr	64.4	Spike	F	0 - 30
2111008	Carbamazepine	13.1	Spike	P	0 - 30
2111008	Clothianidin	19.3	Spike	P	0 - 30
2111008	Dinotefuran	9.46	Spike	P	0 - 30
2111008	Diuron	11.5	Spike	P	0 - 30
2111008	Fenuron	7.24	Spike	P	0 - 30
2111008	Fluridone	0.503	Spike	P	0 - 30
2111008	Hydrocodone	2.95	Spike	P	0 - 30
2111008	Ibuprofen	0.847	Spike	P	0 - 30
2111008	Imazapyr	10.9	Spike	P	0 - 30
2111008	Imidacloprid	8.13	Spike	P	0 - 30
2111008	Linuron	9.59	Spike	P	0 - 30
2111008	Mandestrobin	5.46	Spike	P	0 - 30
2111008	MCP	4.55	Spike	P	0 - 30
2111008	Naproxen	38.9	Spike	F	0 - 30
2111008	Primidone	16.5	Spike	P	0 - 30
2111008	Pyraclostrobin	75.7	Spike	F	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P369089

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111008	Thiamethoxam	3.76	Spike	P	0 - 30
2111008	Triclopyr	4.21	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P369116

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110859	Acesulfame K	9.11	Spike	P	0 - 30
2110859	AMPA	2.48	Spike	P	0 - 30
2110859	Endothall	1.28	Spike	P	0 - 30
2110859	Glufosinate	5.12	Spike	P	0 - 30
2110859	Glyphosate	2.93	Spike	P	0 - 30
2110859	Sucralose	5.99	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P369051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111191	Color (true)	1.28	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P369442

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111620	Total Alkalinity	0.0323	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
Batch ID: P369722

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111191	TDS	7.67	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P369445

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111620	Fluoride	0.519	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P369232

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111211	Organic Carbon	0.237	Spike	P	0 - 20

Quality Assurance Report

Precision

* 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: 2111197
Field Sample ID: G2NE1204

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	138	P	30 - 160
EPA 8321B	Acetaminophen-d4	76.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	85.0	P	30 - 160
EPA 8321B	Diuron-d6	80.2	P	30 - 160
EPA 8321B	Endothall-d6	79.3	P	30 - 160
EPA 8321B	Endothall-d6	79.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	65.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	65.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	86.1	P	30 - 160
EPA 8321B	Primidone-d5	102	P	30 - 160
EPA 8321B	Sucralose-d6	89.1	P	30 - 160
EPA 8321B	Sucralose-d6	89.1	P	30 - 160

Lab Sample ID: 2111199
Field Sample ID: G2NE1204

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	95.8	P	68 - 130
EPA 8270E	Terbufos-d10	92.7	P	61 - 136

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B
Run ID: A93516
Included Lab Sample IDs: 2111191

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	103	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A93525
Included Lab Sample IDs: 2111191

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	101	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A93535
Included Lab Sample IDs: 2111193

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.4	100	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A93581
Included Lab Sample IDs: 2111198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	102	102	P/P	90 - 110
Calcium	101	102	P/P	90 - 110
Iron	101	101	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Potassium	99.8	100	P/P	90 - 110
Zinc	100	99.3	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A93586
Included Lab Sample IDs: 2111192

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A93589
Included Lab Sample IDs: 2111192

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
Run ID: A93591
Included Lab Sample IDs: 2111192

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	105	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A93592

Included Lab Sample IDs: 2111197

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.7	110	P/P	50 - 150
Acetaminophen	91.6	86.4	P/P	60 - 160
Acetamiprid	107	106	P/P	50 - 150
Afidopyropen	79.5	89.6	P/P	50 - 150
Bentazon	103	105	P/P	50 - 160
Benzovindiflupyr	104	108	P/P	50 - 150
Carbamazepine	92.3	96.6	P/P	60 - 150
Clothianidin	94.2	92.7	P/P	60 - 150
Dinotefuran	83.9	86.9	P/P	50 - 150
Diuron	101	101	P/P	60 - 150
Fenuron	74.2	71.8	P/P	60 - 150
Fluridone	94.4	98.3	P/P	60 - 160
Hydrocodone	99.9	99.5	P/P	60 - 150
Ibuprofen	97.5	94.4	P/P	50 - 160
Imazapyr	121	117	P/P	50 - 150
Imidacloprid	87.5	85.5	P/P	60 - 150
Linuron	88.9	86.0	P/P	60 - 150
Mandestrobin	98.4	99.2	P/P	50 - 150
MCPP	88.6	87.5	P/P	50 - 150
Naproxen	67.9	123	P/P	50 - 160
Primidone	90.5	89.3	P/P	60 - 150
Pyraclostrobin	96.6	93.8	P/P	60 - 150
Thiamethoxam	80.3	93.7	P/P	50 - 150
Tolfenpyrad	96.8	97.0	P/P	60 - 150
Triclopyr	91.4	91.1	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A93606

Included Lab Sample IDs: 2111199

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	100		P	80 - 120
Alachlor	96.5		P	80 - 120
Ametryn	97.1		P	80 - 120
Atrazine	99.4		P	80 - 120
Atrazine Desethyl	85.7		P	80 - 120
Azinphos Methyl	93.4		P	80 - 120
Bromacil	100		P	80 - 120
Butylate	106		P	80 - 120
Chlorpyrifos Ethyl	96.8		P	80 - 120
Chlorpyrifos Methyl	95.9		P	80 - 120
Cyanazine	77.8*		F	80 - 120
Demeton	99.1		P	80 - 120
Diazinon	99.9		P	80 - 120
Dimethenamid	102		P	80 - 120
Disulfoton	95.6		P	80 - 120
Dithiopyr	100		P	80 - 120
EPTC	97.6		P	80 - 120
Ethion	97.4		P	80 - 120
Ethoprop	96.3		P	80 - 120
Fenamiphos	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A93606
Included Lab Sample IDs: 2111199

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	92.0		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fonofos	99.7		P	80 - 120
Hexazinone	98.5		P	80 - 120
Malathion	95.5		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	78.3*		F	80 - 120
Mevinphos	100		P	80 - 120
Molinate	101		P	80 - 120
Norflurazon	98.7		P	80 - 120
Oxadiazon	106		P	80 - 120
Parathion Ethyl	94.7		P	80 - 120
Parathion Methyl	89.5		P	80 - 120
Pendimethalin	87.2		P	80 - 120
Phorate	98.1		P	80 - 120
Prodiamine	84.5		P	80 - 120
Prometon	94.9		P	80 - 120
Prometryn	98.0		P	80 - 120
Simazine	101		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	97.2		P	80 - 120
Terbutylazine	95.2		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A93607
Included Lab Sample IDs: 2111198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sodium	100	96.9	P/P	95 - 105

Reference Method: EPA 8321B
Run ID: A93618
Included Lab Sample IDs: 2111197

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	86.9	82.5	P/P	60 - 160
Endothall	105	106	P/P	60 - 160

Reference Method: EPA 8321B
Run ID: A93621
Included Lab Sample IDs: 2111197

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	91.3	84.9	P/P	60 - 160
Glufosinate	112	99.8	P/P	60 - 160
Glyphosate	102	120	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A93624

Included Lab Sample IDs: 2111192

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.9	94.9	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A93642

Included Lab Sample IDs: 2111198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.7	96.8	P/P	90 - 110
Antimony	92.4	93.6	P/P	90 - 110
Arsenic	100	96.9	P/P	90 - 110
Boron	97.6	94.2	P/P	90 - 110
Cadmium	96.1	94.8	P/P	90 - 110
Chromium	96.4	96.7	P/P	90 - 110
Copper	101	96.6	P/P	90 - 110
Lead	99.0	98.8	P/P	90 - 110
Nickel	100	95.7	P/P	90 - 110
Silver	99.1	97.2	P/P	90 - 110
Thallium	93.4	92.4	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A93694

Included Lab Sample IDs: 2111191

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: A93694

Included Lab Sample IDs: 2111191

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A93717

Included Lab Sample IDs: 2111191

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.3	99.8	P/P	90 - 110
Sulfate	101	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A93751

Included Lab Sample IDs: 2111192

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A93859

Included Lab Sample IDs: 2111197

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	83.8	82.4	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A94068

Included Lab Sample IDs: 2111198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Selenium	98.5	99.1	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity							6.38	
EPA 200.7 Rev. 4.4	Barium	103		102	102	100			0.0839
	Calcium	105		105	103				0.693
	Iron	106		104	106	105			2.07
	Magnesium	112		106	107	104			1.23
	Potassium	108		102	106	103			2.24
	Sodium	97.5		99.3	99.1				0.315
	Zinc	100		100	100	103			0.0742
EPA 200.8 Rev. 5.4	Aluminum	99.9		97.1	95.8	98.0			1.21
	Antimony	98.7		100	101	101			0.177
	Arsenic	101		103	102	104			0.311
	Boron	101		99.5	101	98.8			2.01
	Cadmium	101		103	103	102			0.686
	Chromium	99.6		101	99.9	99.0			0.866
	Copper	99.2		98.4	98.3	99.0			0.0887
	Lead	101		103	101	103			1.81
	Nickel	99.9		101	101	99.6			0.308
	Selenium	96.4		95.5	94.9	97.9			0.578
	Silver	100		101	98.6	99.9			2.22
	Thallium	101		105	104	107			0.844
EPA 300.0 Rev. 2.1	Chloride	97.0		97.8	98.8	98.9			0.873
	Sulfate	101		102	103	103			0.600
EPA 350.1 Rev. 2.0	Ammonia-N	96.4		98.6	99.1				0.497
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	93.3		87.7	89.8				1.91
EPA 353.2 Rev. 2.0	NO2NO3-N	100		100	100				0.0
EPA 365.1 Rev. 2.0	Total-P	106		106	103				2.28
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.5		94.7	96.4				1.68
EPA 8270E	Acetochlor	96.9	98.7	94.9	92.6		1.86		2.46
	Alachlor	91.7	93.7	85.9	84.4		2.24		1.73
	Ametryn	100	94.1	119	105		6.25		12.4
	Atrazine	108	107				0.863		1.11
	Atrazine Desethyl	102	93.1	70.6	77.5		8.93		6.88
	Azinphos Methyl	98.1	92.5	80.6	70.1		5.89		13.9
	Bromacil	92.3	90.6	91.3	90.8		1.85		0.485
	Butylate	77.8	70.3	66.8	61.7		10.0		7.86
	Chlorpyrifos Ethyl	99.0	96.7	80.6	80.3		2.29		0.379
	Chlorpyrifos Methyl	96.0	93.4	83.1	78.9		2.73		5.26
	Cyanazine	153	151	137	130		1.27		5.12
	Demeton	70.7	79.2	88.9	85.5		11.4		3.89
	Diazinon	95.3	96.5	97.9	93.7		1.30		4.44
	Dimethenamid	102	101	93.8	90.8		1.33		3.30
	Disulfoton	63.6	71.2	72.1	67.5		11.3		6.64
	Dithiopyr	93.9	94.5	87.2	85.9		0.559		1.57
	EPTC	74.1	62.7	62.0	56.9		16.8		8.69
	Ethion	85.8	79.8	65.4	49.3		7.17		28.0
	Ethoprop	94.0	93.4	89.5	84.8		0.644		5.35
	Fenamiphos	94.5	95.0	98.9	118		0.540		17.8
	Fipronil	93.4	91.5	88.9	88.7		2.03		0.165
	Fipronil Desulfinyl	92.2	82.6	77.0	69.5		11.0		8.31
	Fipronil Sulfide	95.9	78.9	75.5	68.1		19.5		10.3
	Fipronil Sulfone	89.4	85.6	75.7	65.3		4.34		8.30
	Fonofos	91.7	90.4	82.2	80.6		1.48		2.00
	Hexazinone	106	107	86.8	84.7		1.58		2.52
	Malathion	110	101	101	91.1		7.96		10.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Metalaxyl	94.7	95.4	73.7	72.5	0.745	1.62
	Metolachlor	93.4	92.2	94.4	87.5	1.28	7.68
	Metribuzin	177	140	163	166	23.5	1.63
	Mevinphos	102	103	99.2	96.9	1.14	2.30
	Molinate	83.0	79.4	83.9	77.3	4.46	8.22
	Norflurazon	92.2	87.1	78.5	77.8	5.72	0.885
	Oxadiazon	88.3	86.6	73.0	68.2	1.96	5.54
	Parathion Ethyl	94.8	95.6	91.4	84.8	0.777	7.49
	Parathion Methyl	97.7	102	97.6	94.2	4.08	3.60
	Pendimethalin	84.0	83.8	84.5	81.7	0.148	3.37
	Phorate	88.2	93.1	88.5	78.8	5.40	11.5
	Prodiamine	65.1	63.2	60.2	53.3	2.95	7.79
	Prometon	91.9	91.6	102	93.7	0.319	8.60
	Prometryn	91.0	90.3	74.4	77.5	0.728	4.12
	Simazine	108	109	94.2	102	0.930	5.90
	Tebuconazole	66.1	57.6	45.1	36.0	13.6	18.0
	Terbufos	90.9	92.5	90.2	86.9	1.72	3.67
	Terbuthylazine	99.0	96.8	92.5	89.4	2.19	3.49
EPA 8321B	2,4-D	75.3		160	140		10.3
	Acesulfame K	98.7		85.1	93.2		9.11
	Acetaminophen	68.2		79.6	74.0		7.26
	Acetamiprid	76.8		96.9	85.2		12.4
	Afidopyropen	58.1		79.2	68.1		15.0
	AMPA	88.1		90.6	85.8		2.48
	Bentazon	90.0		63.4	50.6		9.63
	Benzovindiflupyr	80.4		46.4	90.4		64.4
	Carbamazepine	80.0		93.6	76.7		13.1
	Clothianidin	77.5		96.2	74.9		19.3
	Dinotefuran	78.6		104	94.2		9.46
	Diuron	84.1		91.6	81.2		11.5
	Endothall	98.1		58.5	59.3		1.28
	Fenuron	87.2		89.0	82.8		7.24
	Fluridone	80.9		75.5	76.1		0.503
	Glufosinate	106		103	98.0		5.12
	Glyphosate	106		114	103		2.93
	Hydrocodone	86.3		101	97.9		2.95
	Ibuprofen	65.9		82.8	83.5		0.847
	Imazapyr	91.3		103	83.9		10.9
	Imidacloprid	82.8					8.13
	Linuron	69.4		71.3	64.7		9.59
	Mandestrobin	75.8		80.7	76.4		5.46
	MCPP	70.2		160	152		4.55
	Naproxen	66.0		110	74.4		38.9
	Primidone	79.3		105	86.6		16.5
	Pyraclostrobin	56.0		32.7	72.5		75.7
	Sucralose	82.9		52.4	55.9		5.99
	Thiamethoxam	85.5		140	133		3.76
	Tolfenpyrad	32.2		0.0	54.8		
	Triclopyr	46.6		119	114		4.21
SM 2120 B	Color (true)	102				1.28	
SM 2320 B-97	Total Alkalinity	102				0.0323	
SM 2540 C-97	TDS					7.67	
SM 4500 F-C-97	Fluoride	98.9		96.3	96.9		0.519
SM 5310 B-00	Organic Carbon	99.6		102	101		0.237

Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2111191
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2111198
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2111198
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2111191
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2111191
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2111192
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2111192
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2111192
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2111192
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2111193
EPA 8270E / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2111199
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2111197
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2111197
SM 2120 B / E31780	True Color measured at 450 nm	2111191
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2111191
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2111191
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2111191
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2111191
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2111192

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	08/14/2019			08/14/2019 19:08	Rosalyn Ballman	2111191
EPA 200.7 Rev. 4.4	08/14/2019	08/15/2019 16:05	Elliott D. Healy	08/16/2019 16:14	Alexander Thompson	2111198
	08/14/2019	08/15/2019 16:05	Elliott D. Healy	08/19/2019 11:26	Alexander Thompson	2111198
EPA 200.8 Rev. 5.4	08/14/2019	08/15/2019 16:05	Elliott D. Healy	08/20/2019 07:14	Martin Acosta	2111198
	08/14/2019	08/15/2019 16:05	Elliott D. Healy	09/09/2019 04:23	Robert K Palmer	2111198
EPA 300.0 Rev. 2.1	08/14/2019			08/21/2019 02:43	Jhamieka S. Greenwood	2111191
	08/14/2019			08/21/2019 18:29	Jhamieka S. Greenwood	2111191
EPA 350.1 Rev. 2.0	08/14/2019			08/23/2019 11:43	Ping Hua	2111192
EPA 351.2 Rev. 2.0	08/14/2019	08/16/2019 14:55	Sima Feizi	08/20/2019 09:05	Joseph Suarez	2111192
EPA 353.2 Rev. 2.0	08/14/2019			08/19/2019 08:33	Beverly Y. Sanders	2111192
EPA 365.1 Rev. 2.0	08/14/2019	08/16/2019 13:30	Vijayalakshmi Reddy	08/19/2019 10:03	Lipi Saha	2111192
EPA 365.1 Rev. 2.0 dissolved	08/14/2019			08/14/2019 17:53	Jhamieka S. Greenwood	2111193
EPA 8270E	08/14/2019	08/14/2019 14:00	Rasheda Ghaffari	08/16/2019 19:09	Vandana T. Nagar	2111199
EPA 8321B	08/14/2019	08/15/2019 14:45	Rebecca Ware	08/16/2019 15:52	Rebecca Ware	2111197
	08/14/2019	08/15/2019 14:45	Rebecca Ware	08/19/2019 09:57	Rebecca Ware	2111197
	08/14/2019	08/15/2019 14:45	Rebecca Ware	08/22/2019 16:00	Rebecca Ware	2111197
	08/14/2019	08/16/2019 09:30	Fe-Val Siddell	08/18/2019 06:45	Juyoung Kim	2111197
SM 2120 B	08/14/2019			08/14/2019 18:15	Madeline Funaro	2111191
SM 2320 B-97	08/14/2019			08/21/2019 01:00	Dale L. Simmons	2111191
SM 2540 C-97	08/14/2019			08/19/2019 15:20	Yijie Li	2111191
SM 2540 D-97	08/14/2019			08/19/2019 15:20	Yijie Li	2111191
SM 4500 F-C-97	08/14/2019			08/21/2019 01:00	Dale L. Simmons	2111191
SM 5310 B-00	08/14/2019			08/16/2019 20:14	Madeline Funaro	2111192