

Chemical Analysis Report

SE-DIST-2023-10-10-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Lake Lotela**
Request ID: **RQ-2023-06-26-27**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Jordan Skaggs

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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 25-OCT-2023 10:45

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

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: 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: LAKE LOTELA NEAR CENTER

Collection Date/Time: 10/09/2023 11:30

Field ID: G4SE0172

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443914	DEP SOP: NU-094-1	Color (true)	5.4	I	PCU	P436303	
	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P436306	
	EPA 300.0 Rev. 2.1	Chloride	17		mg Cl/L	P436655	
		Sulfate	17		mg SO4/L	P436661	
	SM 2320 B-2011	Total Alkalinity	27		mg CaCO3/L	P436416	
	SM 2540 C-2015	TDS	83		mg/L	P436766	RPD
	SM 2540 D-2015	TSS	8	I	mg/L	P436583	
	SM 4500-F- C-2011	Fluoride	0.064	I	mg F/L	P436607	
2443915	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P436610	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.50		mg N/L	P436430	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P436381	
	EPA 365.1 Rev. 2.0	Total-P	0.010		mg P/L	P436352	
	SM 5310 B-2011	Organic Carbon	5.1		mg C/L	P436407	
2443916	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P436299	
2443918	EPA 8321B	2,4-D	0.022		ug/L	P436263	
		Acesulfame K	0.10	U	ug/L	P436195	
		2,4,5-T	0.0040	U	ug/L	P436263	
		AMPA	0.10	U	ug/L	P436195	
		Acetaminophen	0.0080	U	ug/L	P436263	
		Acetamiprid	0.0020	U	ug/L	P436263	
		Endothall	0.25	U	ug/L	P436195	
		Glufosinate	0.10	U	ug/L	P436195	
		Glyphosate	0.10	U	ug/L	P436195	
		Afidopyropen	0.0020	U	ug/L	P436263	
		Bentazon	0.0011	I	ug/L	P436263	
		Sucralose	1.1		ug/L	P436195	
		Benzovindiflupyr	0.0020	U	ug/L	P436263	
		Carbamazepine	8.0E-04	U	ug/L	P436263	
		Clothianidin	0.0020	U	ug/L	P436263	
		Dinotefuran	0.0020	U	ug/L	P436263	
		Diuron	0.0020	U	ug/L	P436263	
		Fenuron	0.032	U	ug/L	P436263	
		Fluridone	8.0E-04	U	ug/L	P436263	
		Imazapyr	0.0040	U	ug/L	P436263	
		Hydrocodone	0.0020	U	ug/L	P436263	
		Ibuprofen	0.080	U	ug/L	P436263	
		Imidacloprid	0.0040	I	ug/L	P436263	
		Linuron	0.0040	U	ug/L	P436263	
		Mandestrobin	0.0020	U	ug/L	P436263	
		MCPD	0.0020	U	ug/L	P436263	
		Naproxen	0.0080	U	ug/L	P436263	
		Primidone	0.0043	I	ug/L	P436263	
		Pyraclostrobin	0.0020	U	ug/L	P436263	

Field ID: G4SE0172

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443918	EPA 8321B	Silvex	0.0040	U	ug/L	P436263	
		Thiamethoxam	0.0020	U	ug/L	P436263	
		Tolfenpyrad	0.0020	U	ug/L	P436263	
		Triclopyr	0.0040	U	ug/L	P436263	
2443919	EPA 200.7 Rev. 4.4	Calcium	10.5		mg/L	P436354	
		Iron	30	U	ug/L	P436354	
		Magnesium	3.10		mg/L	P436354	
		Potassium	4.7		mg/L	P436354	
		Sodium	8.9		mg/L	P436354	
		Strontium	99.9		ug/L	P436354	
		Tin	3.0	U	ug/L	P436354	
		Titanium	0.75	U	ug/L	P436354	
		Vanadium	4.6	I	ug/L	P436354	
		Zinc	5.0	U	ug/L	P436354	
	EPA 200.8 Rev. 5.4	Aluminum	20		ug/L	P436354	
		Antimony	0.12	I	ug/L	P436354	
		Arsenic	1.37		ug/L	P436354	
		Barium	3.25		ug/L	P436354	
		Beryllium	0.010	U	ug/L	P436354	
		Boron	43.1		ug/L	P436354	
		Cadmium	0.020	U	ug/L	P436354	
		Chromium	0.40	U	ug/L	P436354	
		Cobalt	0.020	U	ug/L	P436354	
		Copper	0.64	I	ug/L	P436354	
		Lead	0.20	U	ug/L	P436354	
		Manganese	5.96		ug/L	P436354	
		Molybdenum	0.40	I	ug/L	P436354	
		Nickel	0.50	U	ug/L	P436354	
		Selenium	0.20	U	ug/L	P436354	
		Silver	0.010	U	ug/L	P436354	
		Thallium	0.10	U	ug/L	P436354	
	SM 2340 B-2011	Hardness	38.9		mg/L	P436354	
2443920	EPA 8270E	Oxybenzone**	11	U	ng/L	P436252	
		Acetochlor	0.21	U	ng/L	P436252	
		Octinoxate**	160	U	ng/L	P436252	
		Alachlor	0.43	U	ng/L	P436252	
		Avobenzone**	110	U	ng/L	P436252	
		Ametryn	1.2	U	ng/L	P436252	
		Atrazine	7.3		ng/L	P436252	
		PBDE-47**	4.3	UJ	ng/L	P436252	RPD
		Atrazine Desethyl	8.0		ng/L	P436252	
		PBDE-99**	5.3	U	ng/L	P436252	
		Azinphos Methyl	3.2	U	ng/L	P436252	
		Tri-o-cresyl Phosphate**	6.4	U	ng/L	P436252	
		Azoxystrobin	0.52	I	ng/L	P436252	

Field ID: G4SE0172

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443920	EPA 8270E	Bromacil	0.64	U	ng/L	P436252	
		2-Ethylhexyl	13	U	ng/L	P436252	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.48	U	ng/L	P436252	
		Dechlorane Plus**	32	U	ng/L	P436252	
		Caffeine**	8.0	U	ng/L	P436252	
		Dechlorane 602**	5.3	UJ	ng/L	P436252	RPD
		Carbophenothion	0.53	U	ng/L	P436252	
		Dechlorane 603**	4.3	U	ng/L	P436252	
		Carfentrazone Ethyl	0.16	U	ng/L	P436252	
		Hexabromobenzene**	6.4	U	ng/L	P436252	
		Chlorfenapyr	0.32	U	ng/L	P436252	
		PBB-153**	6.4	U	ng/L	P436252	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P436252	
		Pentabromotoluene**	3.2	U	ng/L	P436252	
		Chlorpyrifos Methyl	0.11	U	ng/L	P436252	
		Tris(2-chloroethyl) phosphate (TCEP)**	59	UJ	ng/L	P436252	RPD
		Coumaphos	1.1	U	ng/L	P436252	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	27	U	ng/L	P436252	
		Cyanazine	5.3	U	ng/L	P436252	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.7	U	ng/L	P436252	
		Cyprodinil	0.21	U	ng/L	P436252	
		Tetradecachloro-m-terphenyl**	8.0	U	ng/L	P436252	
		Demeton	3.7	U	ng/L	P436252	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	64	UJ	ng/L	P436252	RPD
		Diazinon	0.19	I	ng/L	P436252	
		Difenoconazole	0.64	UJ	ng/L	P436252	CCV
		Dimethenamid	0.11	U	ng/L	P436252	
		Dimethomorph	1.4	I	ng/L	P436252	
		Disulfoton	0.64	U	ng/L	P436252	
		Dithiopyr	1.1	U	ng/L	P436252	
		EPTC	0.53	U	ng/L	P436252	
		Ethion	0.32	U	ng/L	P436252	
		Ethoprop	0.13	U	ng/L	P436252	
		Etridiazole	0.11	U	ng/L	P436252	
		Fenamiphos	0.48	U	ng/L	P436252	
		Fenbuconazole	0.53	U	ng/L	P436252	
		Fipronil	0.21	UJ	ng/L	P436252	MS, RPD
		Fipronil Desulfinyl**	0.11	UJ	ng/L	P436252	MS, RPD
		Fipronil Sulfide	0.11	UJ	ng/L	P436252	MS, RPD
		Fipronil Sulfone	0.11	UJ	ng/L	P436252	RPD
		Fluazifop-P-butyl	0.11	UJ	ng/L	P436252	RPD
		Fludioxonil	0.11	U	ng/L	P436252	
		Flumioxazin	3.2	U	ng/L	P436252	

Field ID: G4SE0172

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2443920	EPA 8270E	Flutolanil	0.11	UJ	ng/L	P436252	RPD
		Fluxapyroxad	0.27	U	ng/L	P436252	
		Fonofos	0.16	U	ng/L	P436252	
		Hexazinone	0.53	U	ng/L	P436252	
		Imazalil	0.69	U	ng/L	P436252	
		Iprodione	0.53	U	ng/L	P436252	
		Loratadine**	0.32	U	ng/L	P436252	
		Malathion	0.37	U	ng/L	P436252	
		Metalaxyl	6.6		ng/L	P436252	
		Metolachlor	2.9	I	ng/L	P436252	
		Metribuzin	0.43	U	ng/L	P436252	
		Mevinphos	1.1	U	ng/L	P436252	
		Molinate	0.27	U	ng/L	P436252	
		Myclobutanil	0.37	U	ng/L	P436252	
		Naled	2.7	U	ng/L	P436252	
		Napropamide	0.75	U	ng/L	P436252	
		Norflurazon	6.5		ng/L	P436252	
		Oxadiazon	0.37	U	ng/L	P436252	
		Oxyfluorfen	0.21	U	ng/L	P436252	
		Parathion Ethyl	0.16	U	ng/L	P436252	
		Parathion Methyl	0.21	U	ng/L	P436252	
		Pendimethalin	0.80	U	ng/L	P436252	
		Phenytain**	5.7	U	ng/L	P436252	
		Phorate	0.27	U	ng/L	P436252	
		Prodiamine	0.21	U	ng/L	P436252	
		Prometon	9.5	I	ng/L	P436252	
		Prometryn	0.37	U	ng/L	P436252	
		Pronamide	0.11	U	ng/L	P436252	
		Propanil	0.11	U	ng/L	P436252	
		Propargite	0.85	U	ng/L	P436252	
		Propiconazole	0.64	U	ng/L	P436252	
		Pyraflufen Ethyl	0.32	U	ng/L	P436252	
		Pyridaben	1.5	U	ng/L	P436252	
		Pyriproxyfen	0.27	U	ng/L	P436252	
		Simazine	3.9		ng/L	P436252	
		Stirophos	0.43	U	ng/L	P436252	
		Sulfentrazone	1.5	U	ng/L	P436252	
		Tebuconazole	1.5	U	ng/L	P436252	
		Terbufos	0.21	U	ng/L	P436252	
		Terbutylazine	0.21	U	ng/L	P436252	
		Thiobencarb	0.53	U	ng/L	P436252	
		Triadimefon	0.16	U	ng/L	P436252	

Field ID: G4SE0172

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8270E: Refer to the Lab Analysis Report 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 Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P436303

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436306

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436354

Component	Result	Code	Units
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
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436354

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	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: P436655

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436661

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436610

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436430

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436381

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436352

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436299

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

Reference Method: EPA 8270E
Batch ID: P436252

Component	Result	Code	Units
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	60	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.45	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436252

Component	Result	Code	Units
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P436252

Component	Result	Code	Units
PBB-153	6.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	25	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	55	U	ng/L

Reference Method: EPA 8321B

Batch ID: P436195

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B

Batch ID: P436263

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P436263

Component	Result	Code	Units
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	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	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
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P436416

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

Reference Method: SM 2540 C-2015

Batch ID: P436766

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P436583

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P436607

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P436407

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P436303

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436306

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	104		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436354

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	96.4		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	88.6		P	85 - 115
Sodium	104		P	85 - 115
Strontium	108		P	85 - 115
Tin	101		P	85 - 115
Titanium	102		P	85 - 115
Vanadium	102		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436354

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.4		P	85 - 115
Antimony	98.2		P	85 - 115
Arsenic	99.6		P	85 - 115
Barium	102		P	85 - 115
Beryllium	97.3		P	85 - 115
Boron	105		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	101		P	85 - 115
Copper	97.5		P	85 - 115
Lead	94.3		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	97.3		P	85 - 115
Nickel	99.3		P	85 - 115
Selenium	98.5		P	85 - 115
Silver	108		P	85 - 115
Thallium	99.9		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436655

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436661

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436610

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436430

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436381

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436352

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436299

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

Reference Method: EPA 8270E
Batch ID: P436252

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	75.1		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107		P	37 - 154
Acetochlor	90.1		P	64 - 124
Alachlor	87.9		P	61 - 118
Ametryn	138		P	47 - 158
Atrazine	99.6		P	68 - 121
Atrazine Desethyl	110		P	30 - 119
Avobenzone	119		P	48 - 193
Azinphos Methyl	88.7		P	30 - 194
Azoxystrobin	103		P	58 - 154
Bromacil	113		P	47 - 126
Butylate	69.0		P	31 - 83.0
Caffeine	75.9		P	10 - 180
Carbophenothion	95.1		P	59 - 133
Carfentrazone Ethyl	110		P	59 - 147
Chlorfenapyr	98.0		P	52 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436252

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	100		P	59 - 119
Chlorpyrifos Methyl	102		P	65 - 123
Coumaphos	92.3		P	11 - 223
Cyanazine	232		P	63 - 250
Cyprodinil	117		P	52 - 143
Dechlorane 602	80.1		P	23 - 142
Dechlorane 603	111		P	51 - 171
Dechlorane Plus	94.8		P	46 - 161
Demeton	95.3		P	42 - 119
Diazinon	112		P	67 - 132
Difenoconazole	79.0		P	12 - 204
Dimethenamid	97.8		P	53 - 113
Dimethomorph	225		P	13 - 238
Disulfoton	123		P	56 - 126
Dithiopyr	97.7		P	58 - 127
EPTC	58.5		P	31 - 78.0
Ethion	53.8		P	24 - 127
Ethoprop	103		P	60 - 118
Etridiazole	77.0		P	32 - 91.0
Fenamiphos	97.6		P	54 - 129
Fenbuconazole	66.1		P	31 - 162
Fipronil	86.1		P	56 - 131
Fipronil Desulfinyl	115		P	58 - 132
Fipronil Sulfide	104		P	51 - 123
Fipronil Sulfone	87.1		P	50 - 125
Fluazifop-P-butyl	108		P	52 - 132
Fludioxonil	91.6		P	52 - 129
Flumioxazin	126		P	34 - 250
Flutolanil	88.0		P	45 - 128
Fluxapyroxad	95.2		P	31 - 150
Fonofos	108		P	60 - 116
Hexabromobenzene	120		P	52 - 165
Hexazinone	105		P	59 - 120
Imazalil	75.6		P	39 - 134
Iprodione	109		P	39 - 243
Loratadine	170		P	10 - 240
Malathion	118		P	53 - 145
Metalaxyl	113		P	59 - 120
Metolachlor	105		P	64 - 122
Metribuzin	115		P	33 - 128
Mevinphos	114		P	48 - 119
Molinate	61.5		P	42 - 89.0
Myclobutanil	108		P	54 - 129
Naled	55.3		P	10 - 138
Napropamide	90.5		P	40 - 122
Norflurazon	110		P	49 - 132
Octinoxate	145		P	29 - 176
Oxadiazon	91.0		P	50 - 115
Oxybenzone	123		P	45 - 145
Oxyfluorfen	125		P	62 - 149
Parathion Ethyl	107		P	68 - 119
Parathion Methyl	132		P	68 - 147

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436252

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBB-153	108		P	42 - 179
PBDE-47	102		P	44 - 141
PBDE-99	94.9		P	36 - 141
Pendimethalin	116		P	59 - 158
Pentabromotoluene	115		P	58 - 148
Phenytoin	53.8		P	10 - 151
Phorate	122		P	44 - 124
Prodiamine	50.7		P	10 - 136
Prometon	121		P	45 - 131
Prometryn	127		P	52 - 140
Pronamide	110		P	70 - 129
Propanil	127		P	54 - 144
Propargite	74.3		P	10 - 191
Propiconazole	106		P	49 - 128
Pyraflufen Ethyl	132		P	46 - 141
Pyridaben	88.2		P	29 - 198
Pyriproxyfen	76.4		P	33 - 221
Simazine	85.9		P	62 - 119
Stirophos	62.6		P	13 - 144
Sulfentrazone	83.9		P	12 - 152
Tebuconazole	68.8		P	10 - 135
Terbufos	127		P	67 - 136
Terbuthylazine	86.9		P	66 - 113
Tetradecachloro-m-terphenyl	109		P	30 - 235
Thiobencarb	112		P	51 - 125
Tri-o-cresyl Phosphate	123		P	50 - 150
Triadimefon	100		P	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	140		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	106		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	109		P	59 - 166

Reference Method: EPA 8321B

Batch ID: P436195

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	106		P	40 - 150
AMPA	93.4		P	40 - 150
Endothall	90.0		P	40 - 150
Glufosinate	78.2		P	40 - 150
Glyphosate	73.9		P	40 - 150
Sucralose	91.3		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436263

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	70.4		P	40 - 150
2,4,5-T	67.7		P	40 - 150
Acetaminophen	80.7		P	30 - 150
Acetamiprid	81.7		P	40 - 150
Afidopyropen	69.0		P	30 - 150
Bentazon	107		P	30 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P436263

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	67.1		P	40 - 150
Carbamazepine	69.6		P	40 - 150
Clothianidin	82.6		P	40 - 150
Dinotefuran	96.1		P	40 - 150
Diuron	64.4		P	40 - 150
Fenuron	83.4		P	40 - 150
Fluridone	69.6		P	40 - 150
Hydrocodone	86.3		P	40 - 150
Ibuprofen	49.7		P	40 - 150
Imazapyr	75.0		P	40 - 150
Imidacloprid	78.8		P	40 - 150
Linuron	57.4		P	40 - 150
Mandestrobin	59.4		P	40 - 150
MCPPP	80.1		P	40 - 150
Naproxen	52.1		P	40 - 150
Primidone	79.1		P	40 - 150
Pyraclostrobin	68.8		P	40 - 150
Silvex	72.8		P	40 - 150
Thiamethoxam	80.8		P	40 - 150
Tolfenpyrad	45.5		P	30 - 150
Triclopyr	69.5		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P436416

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.5		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P436766

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	106		P	85 - 115

Reference Method: SM 2540 D-2015

Batch ID: P436583

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	108		P	85 - 115

Reference Method: SM 4500-F- C-2011

Batch ID: P436607

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P436407

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P436354

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443758	Calcium	102	105	P/P	80 - 120
2443758	Iron	94.8	95.2	P/P	80 - 120
2443758	Magnesium	104	107	P/P	80 - 120
2443758	Potassium	94.4	96.1	P/P	80 - 120
2443758	Sodium	100		P	80 - 120
2443758	Strontium	106	106	P/P	80 - 120
2443758	Tin	99.2	103	P/P	80 - 120
2443758	Titanium	101	103	P/P	80 - 120
2443758	Vanadium	101	102	P/P	80 - 120
2443758	Zinc	97.6	101	P/P	80 - 120
2443919	Calcium	94.2		P	80 - 120
2443919	Iron	95.7		P	80 - 120
2443919	Magnesium	94.7		P	80 - 120
2443919	Potassium	104		P	80 - 120
2443919	Sodium	105		P	80 - 120
2443919	Strontium	107		P	80 - 120
2443919	Tin	101		P	80 - 120
2443919	Titanium	102		P	80 - 120
2443919	Vanadium	102		P	80 - 120
2443919	Zinc	99.3		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436354

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443758	Aluminum	99.3	102	P/P	80 - 120
2443758	Antimony	98.9	98.3	P/P	80 - 120
2443758	Arsenic	99.7	99.0	P/P	80 - 120
2443758	Barium	99.1	101	P/P	80 - 120
2443758	Beryllium	96.4	92.5	P/P	80 - 120
2443758	Boron	105	103	P/P	80 - 120
2443758	Cadmium	100	101	P/P	80 - 120
2443758	Chromium	99.9	98.8	P/P	80 - 120
2443758	Cobalt	99.4	99.7	P/P	80 - 120
2443758	Copper	98.8	100	P/P	80 - 120
2443758	Lead	94.5	96.0	P/P	80 - 120
2443758	Manganese	98.7	99.3	P/P	80 - 120
2443758	Molybdenum	99.0	98.3	P/P	80 - 120
2443758	Nickel	98.5	97.8	P/P	80 - 120
2443758	Selenium	98.7	97.1	P/P	80 - 120
2443758	Silver	108	107	P/P	80 - 120
2443758	Thallium	99.9	101	P/P	80 - 120
2443919	Aluminum	98.8		P	80 - 120
2443919	Antimony	100		P	80 - 120
2443919	Arsenic	98.1		P	80 - 120
2443919	Barium	99.6		P	80 - 120
2443919	Beryllium	96.0		P	80 - 120
2443919	Boron	102		P	80 - 120
2443919	Cadmium	103		P	80 - 120
2443919	Chromium	103		P	80 - 120
2443919	Cobalt	97.0		P	80 - 120
2443919	Copper	93.3		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436354

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443919	Lead	95.8		P	80 - 120
2443919	Manganese	103		P	80 - 120
2443919	Molybdenum	99.3		P	80 - 120
2443919	Nickel	94.7		P	80 - 120
2443919	Selenium	92.7		P	80 - 120
2443919	Silver	107		P	80 - 120
2443919	Thallium	101		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P436655

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443867	Chloride	104		P	90 - 110
2444038	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P436661

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443867	Sulfate	103		P	90 - 110
2444038	Sulfate	99.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P436610

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443915	Ammonia-N	98.0	96.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P436430

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443915	Kjeldahl Nitrogen	90.5	95.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P436381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443796	NO2NO3-N	98.0	95.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P436352

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443869	Total-P	108	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P436299

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443916	O-Phosphate-P	95.1	95.8	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443920	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	61.7	84.8	P/P	50 - 150
2443920	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101	130	P/P	29 - 155
2443920	Acetochlor	75.4	96.1	P/P	60 - 124
2443920	Alachlor	74.4	73.2	P/P	54 - 122
2443920	Ametryn	127	137	P/P	51 - 208
2443920	Atrazine Desethyl	77.9	77.7	P/P	13 - 124
2443920	Avobenzone	110	142	P/P	35 - 187
2443920	Azinphos Methyl	75.1	76.0	P/P	43 - 276
2443920	Azoxystrobin	84.8	95.9	P/P	52 - 300
2443920	Bromacil	110	91.2	P/P	44 - 134
2443920	Butylate	72.3	79.9	P/P	23 - 82.0
2443920	Caffeine	92.6	96.8	P/P	10 - 277
2443920	Carbophenothion	104	82.6	P/P	47 - 135
2443920	Carfentrazone Ethyl	119	90.4	P/P	46 - 147
2443920	Chlorfenapyr	106	102	P/P	43 - 114
2443920	Chlorpyrifos Ethyl	90.4	93.6	P/P	47 - 124
2443920	Chlorpyrifos Methyl	128	123	P/P	60 - 135
2443920	Coumaphos	97.7	92.3	P/P	10 - 222
2443920	Cyanazine	228	242	P/P	10 - 257
2443920	Cyprodinil	135	116	P/P	42 - 148
2443920	Dechlorane 602	54.1	104	P/P	14 - 133
2443920	Dechlorane 603	93.4	117	P/P	18 - 191
2443920	Dechlorane Plus	81.5	110	P/P	23 - 154
2443920	Demeton	99.3	95.3	P/P	41 - 137
2443920	Diazinon	128	124	P/P	64 - 139
2443920	Difenoconazole	80.3	70.0	P/P	46 - 254
2443920	Dimethenamid	85.6	114	P/P	47 - 117
2443920	Dimethomorph	218	198	P/P	14 - 255
2443920	Disulfoton	116	127	P/P	52 - 130
2443920	Dithiopyr	106	112	P/P	40 - 121
2443920	EPTC	69.7	70.8	P/P	19 - 78.0
2443920	Ethion	47.8	87.2	P/P	12 - 124
2443920	Ethoprop	113	102	P/P	68 - 144
2443920	Etridiazole	95.1	93.6	P/P	26 - 96.0
2443920	Fenamiphos	63.7	62.3	P/P	41 - 129
2443920	Fenbuconazole	69.3	86.9	P/P	26 - 169
2443920	Fipronil	97.1	30.0	P/F	46 - 145
2443920	Fipronil Desulfinyl	140	77.4	F/P	47 - 136
2443920	Fipronil Sulfide	139	59.7	F/P	41 - 127
2443920	Fipronil Sulfone	95.4	56.2	P/P	35 - 133
2443920	Fluazifop-P-butyl	115	74.2	P/P	46 - 131
2443920	Fludioxonil	104	92.9	P/P	51 - 124
2443920	Flumioxazin	102	104	P/P	10 - 289
2443920	Flutolanil	111	66.3	P/P	34 - 130
2443920	Fluxapyroxad	95.6	97.8	P/P	10 - 197
2443920	Fonofos	110	125	P/P	42 - 131
2443920	Hexabromobenzene	108	123	P/P	47 - 178
2443920	Hexazinone	106	99.2	P/P	64 - 125
2443920	Imazalil	95.5	90.2	P/P	37 - 252
2443920	Iprodione	99.9	89.8	P/P	34 - 265
2443920	Loratadine	141	114	P/P	20 - 231
2443920	Malathion	116	91.6	P/P	34 - 164

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436252

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443920	Metalaxyl	98.5	117	P/P	49 - 125
2443920	Metolachlor	98.5	83.2	P/P	54 - 125
2443920	Metribuzin	115	109	P/P	51 - 139
2443920	Mevinphos	130	127	P/P	46 - 130
2443920	Molinate	73.5	67.7	P/P	39 - 93.0
2443920	Myclobutanil	125	107	P/P	50 - 130
2443920	Naled	62.8	73.9	P/P	10 - 150
2443920	Napropamide	86.7	80.2	P/P	10 - 109
2443920	Norflurazon	110	82.5	P/P	36 - 134
2443920	Octinoxate	128	163	P/P	18 - 170
2443920	Oxadiazon	84.5	95.5	P/P	43 - 112
2443920	Oxybenzone	113	126	P/P	33 - 154
2443920	Oxyfluorfen	127	115	P/P	62 - 154
2443920	Parathion Ethyl	85.1	109	P/P	65 - 120
2443920	Parathion Methyl	178	140	P/P	77 - 185
2443920	PBB-153	90.1	119	P/P	23 - 193
2443920	PBDE-47	79.6	122	P/P	31 - 139
2443920	PBDE-99	74.8	113	P/P	24 - 138
2443920	Pendimethalin	114	124	P/P	50 - 146
2443920	Pentabromotoluene	105	115	P/P	54 - 152
2443920	Phenytoin	74.8	149	P/P	10 - 157
2443920	Phorate	136	134	P/P	54 - 161
2443920	Prodiamine	54.7	46.0	P/P	29 - 160
2443920	Prometon	89.2	86.8	P/P	38 - 145
2443920	Prometryn	118	110	P/P	32 - 151
2443920	Pronamide	99.7	100	P/P	61 - 140
2443920	Propanil	130	130	P/P	50 - 147
2443920	Propargite	69.9	101	P/P	10 - 190
2443920	Propiconazole	131	114	P/P	30 - 146
2443920	Pyraflufen Ethyl	130	99.6	P/P	30 - 147
2443920	Pyridaben	97.3	123	P/P	15 - 195
2443920	Pyriproxyfen	69.1	81.7	P/P	31 - 218
2443920	Simazine	88.7	91.3	P/P	45 - 139
2443920	Stirophos	50.3	40.9	P/P	10 - 134
2443920	Sulfentrazone	73.5	69.0	P/P	53 - 186
2443920	Tebuconazole	79.1	114	P/P	10 - 133
2443920	Terbufos	141	141	P/P	65 - 151
2443920	Terbutylazine	82.4	90.3	P/P	62 - 117
2443920	Tetradecachloro-m-terphenyl	124	153	P/P	10 - 260
2443920	Thiobencarb	103	90.2	P/P	48 - 122
2443920	Tri-o-cresyl Phosphate	101	123	P/P	32 - 151
2443920	Triadimefon	76.2	84.8	P/P	46 - 124
2443920	Tris(1-chloro-2-propyl) phosphate (TCPP)	127	151	P/P	51 - 154
2443920	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.2	101	P/P	59 - 147
2443920	Tris(2-chloroethyl) phosphate (TCEP)	102	128	P/P	65 - 156

Reference Method: EPA 8321B

Batch ID: P436195

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443120	Acesulfame K	130	137	P/P	40 - 150
2443120	AMPA	84.8	82.8	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P436195

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443120	Endothall	98.1	94.5	P/P	40 - 150
2443120	Glufosinate	78.9	77.4	P/P	40 - 150
2443120	Glyphosate	102	118	P/P	40 - 150
2443120	Sucralose	107	96.5	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436263

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443453	2,4-D	70.5	87.1	P/P	40 - 150
2443453	2,4,5-T	79.0	87.0	P/P	40 - 150
2443453	Acetaminophen	94.7	91.2	P/P	30 - 150
2443453	Acetamiprid	62.1	58.2	P/P	40 - 150
2443453	Afidopyropen	63.3	62.9	P/P	30 - 150
2443453	Benzovindiflupyr	60.5	71.3	P/P	40 - 150
2443453	Carbamazepine	49.7	49.5	P/P	40 - 150
2443453	Clothianidin	76.7	73.5	P/P	40 - 150
2443453	Dinotefuran	76.6	79.8	P/P	40 - 150
2443453	Diuron	49.2	46.8	P/P	40 - 150
2443453	Fenuron	45.5	44.5	P/P	40 - 150
2443453	Fluridone	59.4	62.9	P/P	40 - 150
2443453	Hydrocodone	63.2	62.6	P/P	40 - 150
2443453	Ibuprofen	63.1	60.2	P/P	40 - 150
2443453	Imazapyr	83.7	90.6	P/P	40 - 150
2443453	Imidacloprid	101	101	P/P	40 - 150
2443453	Linuron	49.2	48.4	P/P	40 - 150
2443453	Mandestrobin	48.8	63.9	P/P	40 - 150
2443453	MCP	94.7	103	P/P	40 - 150
2443453	Naproxen	70.3	69.6	P/P	40 - 150
2443453	Primidone	72.8	75.1	P/P	40 - 150
2443453	Pyraclostrobin	60.9	68.1	P/P	40 - 150
2443453	Silvex	81.1	88.6	P/P	40 - 150
2443453	Thiamethoxam	79.0	74.6	P/P	40 - 150
2443453	Tolfenpyrad	46.3	51.4	P/P	30 - 150
2443453	Triclopyr	82.9	89.9	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P436607

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2444038	Fluoride	102	102	P/P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P436407

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2443729	Organic Carbon	93.8	95.5	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436303

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443907	Color (true)	0.658	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436306

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443727	Turbidity	7.46	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436354

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443758	Calcium	1.94	Spike	P	0 - 20
2443758	Iron	0.435	Spike	P	0 - 20
2443758	Magnesium	2.14	Spike	P	0 - 20
2443758	Potassium	1.86	Spike	P	0 - 20
2443758	Sodium	0.773	Spike	P	0 - 20
2443758	Strontium	0.288	Spike	P	0 - 20
2443758	Tin	3.84	Spike	P	0 - 20
2443758	Titanium	2.15	Spike	P	0 - 20
2443758	Vanadium	1.72	Spike	P	0 - 20
2443758	Zinc	3.44	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436354

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443758	Aluminum	2.12	Spike	P	0 - 20
2443758	Antimony	0.559	Spike	P	0 - 20
2443758	Arsenic	0.672	Spike	P	0 - 20
2443758	Barium	0.978	Spike	P	0 - 20
2443758	Beryllium	3.57	Spike	P	0 - 20
2443758	Boron	2.29	Spike	P	0 - 20
2443758	Cadmium	0.211	Spike	P	0 - 20
2443758	Chromium	1.08	Spike	P	0 - 20
2443758	Cobalt	0.214	Spike	P	0 - 20
2443758	Copper	1.45	Spike	P	0 - 20
2443758	Lead	1.56	Spike	P	0 - 20
2443758	Manganese	0.512	Spike	P	0 - 20
2443758	Molybdenum	0.642	Spike	P	0 - 20
2443758	Nickel	0.702	Spike	P	0 - 20
2443758	Selenium	1.56	Spike	P	0 - 20
2443758	Silver	1.10	Spike	P	0 - 20
2443758	Thallium	1.47	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436655

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443867	Chloride	0.0326	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P436661

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443867	Sulfate	0.0	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436610

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443915	Ammonia-N	1.16	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436430

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443915	Kjeldahl Nitrogen	3.73	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443796	NO2NO3-N	1.64	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436352

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443869	Total-P	1.07	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443916	O-Phosphate-P	0.733	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P436252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443920	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	31.6	Spike	F	0 - 30
2443920	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	25.2	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P436252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443920	Acetochlor	24.1	Spike	P	0 - 28
2443920	Alachlor	1.56	Spike	P	0 - 30
2443920	Ametryn	7.07	Spike	P	0 - 32
2443920	Atrazine	3.08	Spike	P	0 - 33
2443920	Atrazine Desethyl	0.196	Spike	P	0 - 36
2443920	Avobenzone	25.5	Spike	P	0 - 35
2443920	Azinphos Methyl	1.16	Spike	P	0 - 62
2443920	Azoxystrobin	11.8	Spike	P	0 - 39
2443920	Bromacil	18.4	Spike	P	0 - 33
2443920	Butylate	10.0	Spike	P	0 - 51
2443920	Caffeine	4.39	Spike	P	0 - 100
2443920	Carbophenothion	22.6	Spike	P	0 - 34
2443920	Carfentrazone Ethyl	27.6	Spike	P	0 - 33
2443920	Chlorfenapyr	3.25	Spike	P	0 - 28
2443920	Chlorpyrifos Ethyl	3.56	Spike	P	0 - 31
2443920	Chlorpyrifos Methyl	4.26	Spike	P	0 - 27
2443920	Coumaphos	5.63	Spike	P	0 - 62
2443920	Cyanazine	5.97	Spike	P	0 - 48
2443920	Cyprodinil	15.3	Spike	P	0 - 29
2443920	Dechlorane 602	62.9	Spike	F	0 - 60
2443920	Dechlorane 603	22.6	Spike	P	0 - 40
2443920	Dechlorane Plus	30.1	Spike	P	0 - 38
2443920	Demeton	4.08	Spike	P	0 - 33
2443920	Diazinon	3.16	Spike	P	0 - 32
2443920	Difenoconazole	13.7	Spike	P	0 - 71
2443920	Dimethenamid	28.5	Spike	P	0 - 60
2443920	Dimethomorph	8.77	Spike	P	0 - 61
2443920	Disulfoton	8.56	Spike	P	0 - 30
2443920	Dithiopyr	5.68	Spike	P	0 - 28
2443920	EPTC	1.54	Spike	P	0 - 56
2443920	Ethion	58.4	Spike	P	0 - 79
2443920	Ethoprop	9.93	Spike	P	0 - 31
2443920	Etridiazole	1.62	Spike	P	0 - 43
2443920	Fenamiphos	2.24	Spike	P	0 - 43
2443920	Fenbuconazole	22.6	Spike	P	0 - 79
2443920	Fipronil	106	Spike	F	0 - 46
2443920	Fipronil Desulfinyl	57.4	Spike	F	0 - 36
2443920	Fipronil Sulfide	79.6	Spike	F	0 - 34
2443920	Fipronil Sulfone	51.7	Spike	F	0 - 47
2443920	Fluazifop-P-butyl	43.1	Spike	F	0 - 38
2443920	Fludioxonil	11.4	Spike	P	0 - 29
2443920	Flumioxazin	2.55	Spike	P	0 - 63
2443920	Flutolanil	50.0	Spike	F	0 - 36
2443920	Fluxapyroxad	2.23	Spike	P	0 - 65
2443920	Fonofos	12.7	Spike	P	0 - 35
2443920	Hexabromobenzene	12.8	Spike	P	0 - 41
2443920	Hexazinone	6.54	Spike	P	0 - 31
2443920	Imazalil	5.69	Spike	P	0 - 52
2443920	Iprodione	10.8	Spike	P	0 - 49
2443920	Loratadine	21.0	Spike	P	0 - 59
2443920	Malathion	23.7	Spike	P	0 - 77

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P436252

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443920	Metalaxyl	9.12	Spike	P	0 - 76
2443920	Metolachlor	13.7	Spike	P	0 - 29
2443920	Metribuzin	5.12	Spike	P	0 - 51
2443920	Mevinphos	2.40	Spike	P	0 - 31
2443920	Molinate	8.21	Spike	P	0 - 39
2443920	Myclobutanil	15.7	Spike	P	0 - 34
2443920	Naled	16.2	Spike	P	0 - 37
2443920	Napropamide	7.84	Spike	P	0 - 100
2443920	Norflurazon	18.9	Spike	P	0 - 54
2443920	Octinoxate	23.6	Spike	P	0 - 35
2443920	Oxadiazon	12.2	Spike	P	0 - 34
2443920	Oxybenzone	11.1	Spike	P	0 - 35
2443920	Oxyfluorfen	9.20	Spike	P	0 - 28
2443920	Parathion Ethyl	24.3	Spike	P	0 - 31
2443920	Parathion Methyl	23.7	Spike	P	0 - 29
2443920	PBB-153	27.7	Spike	P	0 - 49
2443920	PBDE-47	41.7	Spike	F	0 - 36
2443920	PBDE-99	40.6	Spike	P	0 - 46
2443920	Pendimethalin	7.75	Spike	P	0 - 31
2443920	Pentabromotoluene	9.70	Spike	P	0 - 16
2443920	Phenytoin	66.5	Spike	P	0 - 100
2443920	Phorate	1.43	Spike	P	0 - 36
2443920	Prodiamine	17.2	Spike	P	0 - 68
2443920	Prometon	1.53	Spike	P	0 - 35
2443920	Prometryn	7.63	Spike	P	0 - 33
2443920	Pronamide	0.415	Spike	P	0 - 24
2443920	Propanil	0.0830	Spike	P	0 - 28
2443920	Propargite	36.6	Spike	P	0 - 53
2443920	Propiconazole	13.4	Spike	P	0 - 44
2443920	Pyraflufen Ethyl	26.4	Spike	P	0 - 61
2443920	Pyridaben	23.5	Spike	P	0 - 43
2443920	Pyriproxyfen	16.6	Spike	P	0 - 82
2443920	Simazine	1.74	Spike	P	0 - 29
2443920	Stirophos	20.7	Spike	P	0 - 100
2443920	Sulfentrazone	6.26	Spike	P	0 - 64
2443920	Tebuconazole	35.7	Spike	P	0 - 76
2443920	Terbufos	0.246	Spike	P	0 - 29
2443920	Terbuthylazine	9.12	Spike	P	0 - 28
2443920	Tetradecachloro-m-terphenyl	20.5	Spike	P	0 - 42
2443920	Thiobencarb	13.4	Spike	P	0 - 26
2443920	Tri-o-cresyl Phosphate	19.3	Spike	P	0 - 24
2443920	Triadimefon	10.6	Spike	P	0 - 40
2443920	Tris(1-chloro-2-propyl) phosphate (TCPP)	16.8	Spike	P	0 - 30
2443920	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	7.71	Spike	P	0 - 22
2443920	Tris(2-chloroethyl) phosphate (TCEP)	23.0	Spike	F	0 - 15

Reference Method: EPA 8321B

Batch ID: P436195

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P436195

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443120	Acesulfame K	5.11	Spike	P	0 - 30
2443120	AMPA	2.10	Spike	P	0 - 30
2443120	Endothall	3.74	Spike	P	0 - 30
2443120	Glufosinate	1.83	Spike	P	0 - 30
2443120	Glyphosate	14.9	Spike	P	0 - 30
2443120	Sucralose	9.69	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P436263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443453	2,4-D	11.6	Spike	P	0 - 30
2443453	2,4,5-T	9.63	Spike	P	0 - 30
2443453	Acetaminophen	3.78	Spike	P	0 - 30
2443453	Acetamiprid	6.53	Spike	P	0 - 30
2443453	Afidopyropen	0.699	Spike	P	0 - 30
2443453	Bentazon	5.33	Spike	P	0 - 30
2443453	Benzovindiflupyr	16.4	Spike	P	0 - 30
2443453	Carbamazepine	0.369	Spike	P	0 - 30
2443453	Clothianidin	4.29	Spike	P	0 - 30
2443453	Dinotefuran	3.98	Spike	P	0 - 30
2443453	Diuron	4.96	Spike	P	0 - 30
2443453	Fenuron	2.19	Spike	P	0 - 30
2443453	Fluridone	4.19	Spike	P	0 - 30
2443453	Hydrocodone	0.928	Spike	P	0 - 30
2443453	Ibuprofen	4.79	Spike	P	0 - 30
2443453	Imazapyr	6.51	Spike	P	0 - 30
2443453	Imidacloprid	0.0601	Spike	P	0 - 30
2443453	Linuron	1.64	Spike	P	0 - 30
2443453	Mandestrobin	26.8	Spike	P	0 - 30
2443453	MCPP	8.13	Spike	P	0 - 30
2443453	Naproxen	1.00	Spike	P	0 - 30
2443453	Primidone	3.06	Spike	P	0 - 30
2443453	Pyraclostrobin	11.1	Spike	P	0 - 30
2443453	Silvex	8.89	Spike	P	0 - 30
2443453	Thiamethoxam	5.66	Spike	P	0 - 30
2443453	Tolfenpyrad	10.5	Spike	P	0 - 30
2443453	Triclopyr	8.07	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P436416

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444038	Total Alkalinity	0.985	Sample	P	0 - 3.9

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P436766

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443373	TDS	11.4	Sample	F	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P436583

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443373	TSS	6.56	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P436607

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2444038	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P436407

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2443729	Organic Carbon	1.44	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2443918
Field Sample ID: G4SE0172

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	99.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	100	P	30 - 160
EPA 8321B	Carbamazepine-d10	58.0	P	30 - 160
EPA 8321B	Diuron-d6	51.8	P	30 - 160
EPA 8321B	Endothall-d6	98.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	61.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.3	P	30 - 160
EPA 8321B	Primidone-d5	79.7	P	30 - 160
EPA 8321B	Sucralose-d6	99.8	P	30 - 160

Lab Sample ID: 2443920
Field Sample ID: G4SE0172

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	140	P	20 - 200
EPA 8270E	Simazine-d10	82.1	P	58 - 137
EPA 8270E	Terbufos-d10	103	P	50 - 134
EPA 8270E	Terphenyl-d14	120	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A122052

Included Lab Sample IDs: 2443916

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.1	98.6	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A122053

Included Lab Sample IDs: 2443914

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A122054

Included Lab Sample IDs: 2443914

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

Reference Method: EPA 8321B

Run ID: A122058

Included Lab Sample IDs: 2443918

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	129	148	P/P	60 - 160
Sucralose	102	110	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A122059

Included Lab Sample IDs: 2443918

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	103	105	P/P	60 - 160
Endothall	74.7	81.5	P/P	60 - 160
Glufosinate	80.3	88.2	P/P	60 - 160
Glyphosate	81.6	88.2	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122094

Included Lab Sample IDs: 2443915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.0	97.0	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A122112

Included Lab Sample IDs: 2443915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	95.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A122114

Included Lab Sample IDs: 2443914

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	92.5	98.4	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A122114

Included Lab Sample IDs: 2443914

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122139

Included Lab Sample IDs: 2443915

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122142

Included Lab Sample IDs: 2443919

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.9	98.9	P/P	90 - 110
Antimony	96.3	98.6	P/P	90 - 110
Arsenic	97.2	95.1	P/P	90 - 110
Barium	97.6	96.9	P/P	90 - 110
Beryllium	97.5	96.5	P/P	90 - 110
Boron	98.0	101	P/P	90 - 110
Cadmium	99.3	101	P/P	90 - 110
Chromium	100	106	P/P	90 - 110
Cobalt	98.5	96.9	P/P	90 - 110
Copper	96.4	90.6	P/P	90 - 110
Lead	93.8	93.8	P/P	90 - 110
Manganese	98.9	106	P/P	90 - 110
Molybdenum	98.8	98.4	P/P	90 - 110
Nickel	97.1	94.1	P/P	90 - 110
Selenium	98.0	97.3	P/P	90 - 110
Silver	101	101	P/P	90 - 110
Thallium	98.0	98.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A122149

Included Lab Sample IDs: 2443915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	98.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A122173

Included Lab Sample IDs: 2443918

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122173
Included Lab Sample IDs: 2443918

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	88.9	93.6	P/P	50 - 150
2,4,5-T	79.0	80.2	P/P	50 - 150
Acetaminophen	98.7	97.4	P/P	60 - 160
Acetamiprid	106	105	P/P	50 - 150
Afidopyropen	88.7	107	P/P	50 - 150
Bentazon	108	117	P/P	50 - 160
Benzovindiflupyr	115	119	P/P	50 - 150
Carbamazepine	105	101	P/P	60 - 150
Clothianidin	107	96.8	P/P	60 - 150
Dinotefuran	112	111	P/P	50 - 150
Diuron	109	114	P/P	60 - 160
Fenuron	104	108	P/P	60 - 150
Fluridone	109	104	P/P	60 - 160
Hydrocodone	91.7	109	P/P	60 - 150
Ibuprofen	108	113	P/P	50 - 160
Imazapyr	93.1	87.1	P/P	50 - 150
Imidacloprid	97.7	96.7	P/P	60 - 150
Linuron	102	106	P/P	60 - 150
Mandestrobin	106	107	P/P	50 - 150
MCPP	96.0	93.2	P/P	50 - 150
Naproxen	63.9	66.0	P/P	50 - 160
Primidone	98.3	90.4	P/P	60 - 150
Pyraclostrobin	113	106	P/P	60 - 150
Silvex	94.3	88.8	P/P	50 - 150
Thiamethoxam	103	106	P/P	50 - 150
Tolfenpyrad	110	112	P/P	60 - 150
Triclopyr	80.5	90.8	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A122178
Included Lab Sample IDs: 2443920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	86.6		P	80 - 120
Alachlor	88.6		P	80 - 120
Ametryn	98.8		P	80 - 120
Atrazine	91.8		P	80 - 120
Azinphos Methyl	88.5		P	80 - 120
Azoxystrobin	98.1		P	80 - 120
Bromacil	101		P	80 - 120
Butylate	102		P	80 - 120
Caffeine	84.1		P	80 - 120
Carbophenothion	96.5		P	80 - 120
Carfentrazone Ethyl	104		P	80 - 120
Chlorfenapyr	83.1		P	80 - 120
Chlorpyrifos Ethyl	86.0		P	80 - 120
Chlorpyrifos Methyl	99.0		P	80 - 120
Coumaphos	93.9		P	80 - 120
Cyanazine	96.8		P	80 - 120
Cyprodinil	107		P	80 - 120
Demeton	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122178
Included Lab Sample IDs: 2443920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diazinon	102		P	80 - 120
Difenoconazole	80.0*		F	80 - 120
Dimethenamid	99.2		P	80 - 120
Dimethomorph	97.2		P	80 - 120
Disulfoton	100		P	80 - 120
EPTC	99.7		P	80 - 120
Ethion	89.8		P	80 - 120
Ethoprop	98.2		P	80 - 120
Etridiazole	97.8		P	80 - 120
Fenamiphos	88.6		P	80 - 120
Fenbuconazole	87.2		P	80 - 120
Fipronil	89.3		P	80 - 120
Fipronil Desulfinyl	99.5		P	80 - 120
Fipronil Sulfide	106		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	107		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	97.1		P	80 - 120
Fluxapyroxad	102		P	80 - 120
Fonofos	95.4		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	116		P	80 - 120
Iprodione	90.0		P	80 - 120
Loratadine	85.7		P	80 - 120
Malathion	80.2		P	80 - 120
Metalaxyl	91.0		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	104		P	80 - 120
Mevinphos	98.4		P	80 - 120
Molinate	85.3		P	80 - 120
Myclobutanil	93.6		P	80 - 120
Naled	109		P	80 - 120
Napropamide	102		P	80 - 120
Norflurazon	106		P	80 - 120
Oxadiazon	103		P	80 - 120
Oxyfluorfen	93.8		P	80 - 120
Parathion Ethyl	95.8		P	80 - 120
Parathion Methyl	82.4		P	80 - 120
Pendimethalin	97.6		P	80 - 120
Phenytol	98.5		P	80 - 120
Phorate	104		P	80 - 120
Prodiamine	92.8		P	80 - 120
Prometryn	99.1		P	80 - 120
Pronamide	100		P	80 - 120
Propanil	114		P	80 - 120
Propargite	96.9		P	80 - 120
Propiconazole	88.5		P	80 - 120
Pyraflufen Ethyl	103		P	80 - 120
Pyridaben	103		P	80 - 120
Pyriproxyfen	103		P	80 - 120
Simazine	88.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122178
Included Lab Sample IDs: 2443920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Stirophos	82.6		P	80 - 120
Sulfentrazone	105		P	80 - 120
Tebuconazole	102		P	80 - 120
Terbufos	101		P	80 - 120
Terbuthylazine	88.0		P	80 - 120
Thiobencarb	103		P	80 - 120
Triadimefon	101		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A122195
Included Lab Sample IDs: 2443915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.2	96.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A122209
Included Lab Sample IDs: 2443914

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.6	100	P/P	90 - 110
Sulfate	99.6	100	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A122217
Included Lab Sample IDs: 2443920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine Desethyl	105		P	80 - 120
Dithiopyr	105		P	80 - 120
Flutolanil	90.6		P	80 - 120
Prometon	92.8		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A122235
Included Lab Sample IDs: 2443919

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	90.8	92.6	P/P	90 - 110
Iron	91.8	94.0	P/P	90 - 110
Magnesium	91.8	93.5	P/P	90 - 110
Potassium	94.7	97.0	P/P	90 - 110
Sodium	100	103	P/P	90 - 110
Strontium	105	108	P/P	90 - 110
Tin	98.6	103	P/P	90 - 110
Titanium	99.2	103	P/P	90 - 110
Vanadium	99.0	102	P/P	90 - 110
Zinc	99.2	102	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A122245
 Included Lab Sample IDs: 2443920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	96.8		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	91.4		P	80 - 120
Avobenzone	94.0		P	80 - 120
Dechlorane 602	96.9		P	80 - 120
Dechlorane 603	93.2		P	80 - 120
Dechlorane Plus	94.0		P	80 - 120
Hexabromobenzene	92.3		P	80 - 120
Octinoxate	92.5		P	80 - 120
Oxybenzone	101		P	80 - 120
PBB-153	91.8		P	80 - 120
PBDE-47	93.6		P	80 - 120
PBDE-99	95.6		P	80 - 120
Pentabromotoluene	104		P	80 - 120
Tetradecachloro-m-terphenyl	90.8		P	80 - 120
Tri-o-cresyl Phosphate	98.5		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	92.9		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	98.7		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	93.2		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 SMP	MS
DEP SOP: NU-094-1	Color (true)	100					0.658	
EPA 180.1 Rev. 2.0	Turbidity	104					7.46	
EPA 200.7 Rev. 4.4	Calcium	104	94.2	105	102			1.94
	Iron	96.4	94.8	95.2	95.7			0.435
	Magnesium	105	94.7	104	107			2.14
	Potassium	88.6	94.4	96.1	104			1.86
	Sodium	104	100	105				0.773
	Strontium	108	106	106	107			0.288
	Tin	101	99.2	103	101			3.84
	Titanium	102	101	103	102			2.15
	Vanadium	102	101	102	102			1.72
	Zinc	101	97.6	101	99.3			3.44
EPA 200.8 Rev. 5.4	Aluminum	99.4	99.3	102	98.8			2.12
	Antimony	98.2	98.9	98.3	100			0.559
	Arsenic	99.6	99.7	99.0	98.1			0.672
	Barium	102	99.1	101	99.6			0.978
	Beryllium	97.3	96.4	92.5	96.0			3.57
	Boron	105	105	103	102			2.29
	Cadmium	101	100	101	103			0.211
	Chromium	101	99.9	98.8	103			1.08
	Cobalt	101	99.4	99.7	97.0			0.214
	Copper	97.5	98.8	100	93.3			1.45
	Lead	94.3	94.5	96.0	95.8			1.56
	Manganese	101	98.7	99.3	103			0.512
	Molybdenum	97.3	99.0	98.3	99.3			0.642
	Nickel	99.3	98.5	97.8	94.7			0.702
	Selenium	98.5	98.7	97.1	92.7			1.56
	Silver	108	107	108	107			1.10
	Thallium	99.9	99.9	101	101			1.47
EPA 300.0 Rev. 2.1	Chloride	103	104	104			0.0326	
	Sulfate	103	103	99.9			0.0	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	98.0	96.8				1.16
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	90.5	95.0				3.73
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	98.0	95.5				1.64
EPA 365.1 Rev. 2.0	Total-P	104	108	106				1.07
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101	95.1	95.8				0.733
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	75.1	61.7	84.8				31.6
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	107	101	130				25.2
	Acetochlor	90.1	96.1	75.4				24.1
	Alachlor	87.9	73.2	74.4				1.56
	Ametryn	138	137	127				7.07
	Atrazine	99.6						3.08
	Atrazine Desethyl	110	77.9	77.7				0.196
	Avobenzone	119	110	142				25.5
	Azinphos Methyl	88.7	75.1	76.0				1.16
	Azoxystrobin	103	84.8	95.9				11.8
	Bromacil	113	110	91.2				18.4
	Butylate	69.0	72.3	79.9				10.0
	Caffeine	75.9	92.6	96.8				4.39
	Carbophenothion	95.1	104	82.6				22.6
	Carfentrazone Ethyl	110	119	90.4				27.6

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorfenapyr	98.0	106	102			3.25
	Chlorpyrifos Ethyl	100	90.4	93.6			3.56
	Chlorpyrifos Methyl	102	128	123			4.26
	Coumaphos	92.3	97.7	92.3			5.63
	Cyanazine	232	228	242			5.97
	Cyprodinil	117	135	116			15.3
	Dechlorane 602	80.1	54.1	104			62.9
	Dechlorane 603	111	93.4	117			22.6
	Dechlorane Plus	94.8	81.5	110			30.1
	Demeton	95.3	99.3	95.3			4.08
	Diazinon	112	128	124			3.16
	Difenoconazole	79.0	80.3	70.0			13.7
	Dimethenamid	97.8	85.6	114			28.5
	Dimethomorph	225	218	198			8.77
	Disulfoton	123	116	127			8.56
	Dithiopyr	97.7	106	112			5.68
	EPTC	58.5	69.7	70.8			1.54
	Ethion	53.8	47.8	87.2			58.4
	Ethoprop	103	113	102			9.93
	Etridiazole	77.0	95.1	93.6			1.62
	Fenamiphos	97.6	63.7	62.3			2.24
	Fenbuconazole	66.1	69.3	86.9			22.6
	Fipronil	86.1	97.1	30.0			106
	Fipronil Desulfinyl	115	140	77.4			57.4
	Fipronil Sulfide	104	139	59.7			79.6
	Fipronil Sulfone	87.1	95.4	56.2			51.7
	Fluazifop-P-butyl	108	115	74.2			43.1
	Fludioxonil	91.6	104	92.9			11.4
	Flumioxazin	126	102	104			2.55
	Flutolanil	88.0	111	66.3			50.0
	Fluxapyroxad	95.2	95.6	97.8			2.23
	Fonofos	108	125	110			12.7
	Hexabromobenzene	120	108	123			12.8
	Hexazinone	105	99.2	106			6.54
	Imazalil	75.6	90.2	95.5			5.69
	Iprodione	109	89.8	99.9			10.8
	Loratadine	170	114	141			21.0
	Malathion	118	91.6	116			23.7
	Metalaxyl	113	117	98.5			9.12
	Metolachlor	105	83.2	98.5			13.7
	Metribuzin	115	109	115			5.12
	Mevinphos	114	127	130			2.40
	Molinate	61.5	67.7	73.5			8.21
	Myclobutanil	108	107	125			15.7
	Naled	55.3	73.9	62.8			16.2
	Napropamide	90.5	80.2	86.7			7.84
	Norflurazon	110	82.5	110			18.9
	Octinoxate	145	128	163			23.6
	Oxadiazon	91.0	95.5	84.5			12.2
	Oxybenzone	123	113	126			11.1
	Oxyfluorfen	125	115	127			9.20
	Parathion Ethyl	107	109	85.1			24.3
	Parathion Methyl	132	140	178			23.7
	PBB-153	108	90.1	119			27.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	PBDE-47	102	79.6	122		41.7
	PBDE-99	94.9	74.8	113		40.6
	Pendimethalin	116	124	114		7.75
	Pentabromotoluene	115	105	115		9.70
	Phenytoin	53.8	149	74.8		66.5
	Phorate	122	134	136		1.43
	Prodiamine	50.7	46.0	54.7		17.2
	Prometon	121	89.2	86.8		1.53
	Prometryn	127	110	118		7.63
	Pronamide	110	100	99.7		0.415
	Propanil	127	130	130		0.0830
	Propargite	74.3	101	69.9		36.6
	Propiconazole	106	114	131		13.4
	Pyraflufen Ethyl	132	99.6	130		26.4
	Pyridaben	88.2	123	97.3		23.5
	Pyriproxyfen	76.4	81.7	69.1		16.6
	Simazine	85.9	91.3	88.7		1.74
	Stirophos	62.6	40.9	50.3		20.7
	Sulfentrazone	83.9	73.5	69.0		6.26
	Tebuconazole	68.8	79.1	114		35.7
	Terbufos	127	141	141		0.246
	Terbutylazine	86.9	82.4	90.3		9.12
	Tetradecachloro-m-terphenyl	109	124	153		20.5
	Thiobencarb	112	103	90.2		13.4
	Tri-o-cresyl Phosphate	123	101	123		19.3
	Triadimefon	100	76.2	84.8		10.6
	Tris(1-chloro-2-propyl) phosphate (TCPP)	140	127	151		16.8
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	106	93.2	101		7.71
	Tris(2-chloroethyl) phosphate (TCEP)	109	102	128		23.0
EPA 8321B	2,4-D	70.4	70.5	87.1		11.6
	2,4,5-T	67.7	79.0	87.0		9.63
	Acesulfame K	106	130	137		5.11
	Acetaminophen	80.7	94.7	91.2		3.78
	Acetamiprid	81.7	62.1	58.2		6.53
	Afidopyropen	69.0	63.3	62.9		0.699
	AMPA	93.4	84.8	82.8		2.10
	Bentazon	107				5.33
	Benzovindiflupyr	67.1	60.5	71.3		16.4
	Carbamazepine	69.6	49.7	49.5		0.369
	Clothianidin	82.6	76.7	73.5		4.29
	Dinotefuran	96.1	76.6	79.8		3.98
	Diuron	64.4	49.2	46.8		4.96
	Endothall	90.0	98.1	94.5		3.74
	Fenuron	83.4	45.5	44.5		2.19
	Fluridone	69.6	59.4	62.9		4.19
	Glufosinate	78.2	78.9	77.4		1.83
	Glyphosate	73.9	102	118		14.9
	Hydrocodone	86.3	63.2	62.6		0.928
	Ibuprofen	49.7	63.1	60.2		4.79
	Imazapyr	75.0	83.7	90.6		6.51
	Imidacloprid	78.8	101	101		0.0601

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	Linuron	57.4	49.2	48.4			1.64
	Mandestrobin	59.4	48.8	63.9			26.8
	MCCP	80.1	94.7	103			8.13
	Naproxen	52.1	70.3	69.6			1.00
	Primidone	79.1	72.8	75.1			3.06
	Pyraclostrobin	68.8	60.9	68.1			11.1
	Silvex	72.8	81.1	88.6			8.89
	Sucralose	91.3	107	96.5			9.69
	Thiamethoxam	80.8	79.0	74.6			5.66
	Tolfenpyrad	45.5	46.3	51.4			10.5
	Triclopyr	69.5	82.9	89.9			8.07
SM 2320 B-2011	Total Alkalinity	97.5				0.985	
SM 2540 C-2015	TDS	106				11.4	
SM 2540 D-2015	TSS	108				6.56	
SM 4500-F- C-2011	Fluoride	101	102	102			0.0
SM 5310 B-2011	Organic Carbon	97.4	93.8	95.5			1.44

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2443914
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2443914
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2443919
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2443919
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2443914
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2443914
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2443915
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2443915
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2443915
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2443915
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2443916
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2443920
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2443920
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2443918
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2443914
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2443919
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2443914
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2443914
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2443914
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2443915

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	10/10/2023			10/10/2023 15:37	Chandler E Cox	2443914
EPA 180.1 Rev. 2.0	10/10/2023			10/10/2023 14:42	Khloe J Berg	2443914
EPA 200.7 Rev. 4.4	10/10/2023	10/11/2023 12:15	George D Taylor	10/19/2023 05:49	Samatha Luckman	2443919
EPA 200.8 Rev. 5.4	10/10/2023	10/11/2023 12:15	George D Taylor	10/12/2023 18:33	Conrad Hartmann	2443919
EPA 300.0 Rev. 2.1	10/10/2023			10/17/2023 05:22	James L Waggeberby	2443914
EPA 350.1 Rev. 2.0	10/10/2023			10/17/2023 11:51	Ping Hua	2443915
EPA 351.2 Rev. 2.0	10/10/2023	10/12/2023 13:00	Simonne.V. Calhoun	10/13/2023 11:12	Samantha L Bates	2443915
EPA 353.2 Rev. 2.0	10/10/2023			10/11/2023 15:12	Fadila Guebre	2443915
EPA 365.1 Rev. 2.0	10/10/2023	10/11/2023 13:38	Adam P Silver	10/13/2023 14:29	James L Waggeberby	2443915
EPA 365.1 Rev. 2.0 dissolved	10/10/2023			10/10/2023 15:16	Elise M. Gillis	2443916
EPA 8270E	10/10/2023	10/11/2023 08:30	Rasheda Ghaffari	10/13/2023 18:52	Vandana T. Nagar	2443920
	10/10/2023	10/11/2023 08:30	Rasheda Ghaffari	10/16/2023 22:50	Arthur Maknenko	2443920
	10/10/2023	10/11/2023 08:30	Rasheda Ghaffari	10/17/2023 15:09	Vandana T. Nagar	2443920
EPA 8321B	10/10/2023	10/10/2023 12:00	Hana Lee	10/10/2023 15:23	Tae K Lee	2443918
	10/10/2023	10/10/2023 12:00	Hana Lee	10/11/2023 01:19	Tae K Lee	2443918
	10/10/2023	10/11/2023 12:00	Hoor Shaik	10/13/2023 20:09	Juyoung Kim	2443918
SM 2320 B-2011	10/10/2023			10/12/2023 00:46	Dale L. Simmons	2443914
SM 2340 B-2011	10/10/2023			10/19/2023 05:49	Samatha Luckman	2443919
SM 2540 C-2015	10/10/2023			10/11/2023 15:58	Yijie Li	2443914
SM 2540 D-2015	10/10/2023			10/11/2023 15:58	Yijie Li	2443914
SM 4500-F- C-2011	10/10/2023			10/12/2023 00:46	Dale L. Simmons	2443914
SM 5310 B-2011	10/10/2023			10/11/2023 23:05	Elise M. Gillis	2443915