

Chemical Analysis Report

CEN-DIST-2023-10-18-01

Florida DEP Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

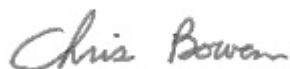
Event Description: **Ref Lake LVI**
Request ID: **RQ-2023-08-28-18**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 13-NOV-2023 10:20



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 Charles, Center

Collection Date/Time: 10/17/2023 13:26

Field ID: 20020430

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2445623	DEP SOP: NU-094-1	Color (true)	390		PCU	P436711	
	EPA 180.1 Rev. 2.0	Turbidity	2.7		NTU	P436706	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P437371	
		Sulfate	3.0		mg SO4/L	P437375	
	SM 2320 B-2011	Total Alkalinity	13		mg CaCO3/L	P436799	
	SM 2540 C-2015	TDS	119		mg/L	P437082	
	SM 2540 D-2015	TSS	3	I	mg/L	P437021	
	SM 4500-F- C-2011	Fluoride	0.095	I	mg F/L	P436803	
2445624	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P436815	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P436778	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.043		mg N/L	P436906	
	EPA 365.1 Rev. 2.0	Total-P	0.055		mg P/L	P436721	
	SM 5310 B-2011	Organic Carbon	36		mg C/L	P436903	
2445625	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.025		mg P/L	P436694	
2445628	EPA 8321B	2,4-D	0.0020	U	ug/L	P436596	
		Acesulfame K	0.10	U	ug/L	P436574	
		2,4,5-T	0.0040	U	ug/L	P436596	
		AMPA	0.10	U	ug/L	P436574	MS
		Acetaminophen	0.0080	U	ug/L	P436596	
		Acetamiprid	0.0020	U	ug/L	P436596	
		Endothall	0.25	U	ug/L	P436574	
		Glufosinate	0.10	U	ug/L	P436574	
		Glyphosate	0.10	U	ug/L	P436574	
		Afidopyrophen	0.0020	U	ug/L	P436596	
		Bentazon	8.0E-04	U	ug/L	P436596	
		Sucralose	0.018	I	ug/L	P436574	
		Benzovindiflupyr	0.0020	U	ug/L	P436596	
		Carbamazepine	8.0E-04	U	ug/L	P436596	
		Clothianidin	0.0020	U	ug/L	P436596	
		Dinotefuran	0.0020	U	ug/L	P436596	
		Diuron	0.0020	U	ug/L	P436596	
		Fenuron	0.032	U	ug/L	P436596	
		Fluridone	8.0E-04	U	ug/L	P436596	
		Imazapyr	0.0040	U	ug/L	P436596	
		Hydrocodone	0.0020	U	ug/L	P436596	
		Ibuprofen	0.080	U	ug/L	P436596	
		Imidacloprid	0.0020	U	ug/L	P436596	
		Linuron	0.0040	U	ug/L	P436596	
		Mandestrobin	0.0020	U	ug/L	P436596	
		MCPP	0.0020	U	ug/L	P436596	
		Naproxen	0.0080	U	ug/L	P436596	
		Primidone	0.0040	U	ug/L	P436596	
		Pyraclostrobin	0.0020	U	ug/L	P436596	

Field ID: 20020430

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2445628	EPA 8321B	Silvex	0.0040	U	ug/L	P436596	
		Thiamethoxam	0.0020	U	ug/L	P436596	
		Tolfenpyrad	0.0020	U	ug/L	P436596	
		Triclopyr	0.0040	U	ug/L	P436596	
2445632	EPA 200.7 Rev. 4.4	Calcium	9.19		mg/L	P436747	
		Iron	990		ug/L	P436747	
		Magnesium	3.90		mg/L	P436747	
		Potassium	0.30	U	mg/L	P436747	
		Sodium	6.6		mg/L	P436747	
		Strontium	34.8		ug/L	P436747	
		Tin	3.0	U	ug/L	P436747	
		Titanium	1.5	I	ug/L	P436747	
		Vanadium	2.0	U	ug/L	P436747	
		Zinc	5.0	U	ug/L	P436747	
	EPA 200.8 Rev. 5.4	Aluminum	209		ug/L	P436747	
		Antimony	0.050	U	ug/L	P436747	
		Arsenic	0.78		ug/L	P436747	
		Barium	6.65		ug/L	P436747	
		Beryllium	0.020	I	ug/L	P436747	
		Boron	27.8		ug/L	P436747	
		Cadmium	0.020	U	ug/L	P436747	
		Chromium	0.40	U	ug/L	P436747	
		Cobalt	0.151		ug/L	P436747	
		Copper	0.40	U	ug/L	P436747	
		Lead	0.64		ug/L	P436747	
		Manganese	13.3		ug/L	P436747	
		Molybdenum	0.29	I	ug/L	P436747	
		Nickel	0.50	U	ug/L	P436747	
		Selenium	0.20	U	ug/L	P436747	
		Silver	0.010	U	ug/L	P436747	
		Thallium	0.10	U	ug/L	P436747	
		Hardness	39.0		mg/L	P436747	
2445636	SM 2340 B-2011						
	EPA 8270E	Oxybenzone**	10	U	ng/L	P436713	
		Acetochlor	0.20	UJ	ng/L	P436713	CCV
		Octinoxate**	150	U	ng/L	P436713	
		Alachlor	0.41	U	ng/L	P436713	
		Avobenzone**	100	U	ng/L	P436713	
		Ametryn	1.1	U	ng/L	P436713	
		Atrazine	0.93	I	ng/L	P436713	
		PBDE-47**	4.1	U	ng/L	P436713	
		Atrazine Desethyl	1.3	U	ng/L	P436713	
		PBDE-99**	5.1	U	ng/L	P436713	
		Azinphos Methyl	3.0	U	ng/L	P436713	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P436713	
		Azoxystrobin	0.41	U	ng/L	P436713	

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Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2445636	EPA 8270E	Bromacil	0.61	U	ng/L	P436713	
		2-Ethylhexyl	12	UJ	ng/L	P436713	LCS
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.46	U	ng/L	P436713	
		Dechlorane Plus**	30	U	ng/L	P436713	
		Caffeine**	7.6	U	ng/L	P436713	
		Dechlorane 602**	5.1	U	ng/L	P436713	
		Carbophenothion	0.51	U	ng/L	P436713	
		Dechlorane 603**	4.1	U	ng/L	P436713	
		Carfentrazone Ethyl	0.15	U	ng/L	P436713	
		Hexabromobenzene**	6.1	U	ng/L	P436713	
		Chlorfenapyr	0.30	U	ng/L	P436713	
		PBB-153**	6.1	UJ	ng/L	P436713	LCS
		Chlorpyrifos Ethyl	0.30	U	ng/L	P436713	
		Pentabromotoluene**	3.0	U	ng/L	P436713	
		Chlorpyrifos Methyl	0.10	U	ng/L	P436713	
		Tris(2-chloroethyl) phosphate (TCEP)**	56	U	ng/L	P436713	
		Coumaphos	1.1	U	ng/L	P436713	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	25	U	ng/L	P436713	
		Cyanazine	5.1	U	ng/L	P436713	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.5	U	ng/L	P436713	
		Cyprodinil	0.20	U	ng/L	P436713	
		Tetradecachloro-m-terphenyl**	7.6	U	ng/L	P436713	
		Demeton	3.6	U	ng/L	P436713	
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)**	61	U	ng/L	P436713	
		Diazinon	0.13	U	ng/L	P436713	
		Difenoconazole	0.61	U	ng/L	P436713	
		Dimethenamid	0.10	U	ng/L	P436713	
		Dimethomorph	0.30	U	ng/L	P436713	
		Disulfoton	0.61	U	ng/L	P436713	
		Dithiopyr	1.0	U	ng/L	P436713	
		EPTC	0.51	U	ng/L	P436713	
		Ethion	0.30	U	ng/L	P436713	
		Ethoprop	0.13	U	ng/L	P436713	
		Etridiazole	0.10	U	ng/L	P436713	
		Fenamiphos	0.46	U	ng/L	P436713	
		Fenbuconazole	0.51	U	ng/L	P436713	
		Fipronil	0.20	U	ng/L	P436713	
		Fipronil Desulfinyl**	0.10	U	ng/L	P436713	MS
		Fipronil Sulfide	0.10	U	ng/L	P436713	
		Fipronil Sulfone	0.10	U	ng/L	P436713	MS, RPD
		Fluazifop-P-butyl	0.10	U	ng/L	P436713	
		Fludioxonil	0.10	U	ng/L	P436713	
		Flumioxazin	3.0	U	ng/L	P436713	

Field ID: 20020430

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2445636	EPA 8270E	Flutolanil	0.10	U	ng/L	P436713	
		Fluxapyroxad	0.25	U	ng/L	P436713	
		Fonofos	0.15	U	ng/L	P436713	
		Hexazinone	0.51	U	ng/L	P436713	
		Imazalil	0.66	U	ng/L	P436713	
		Iprodione	0.51	U	ng/L	P436713	
		Loratadine**	0.30	U	ng/L	P436713	
		Malathion	0.36	U	ng/L	P436713	
		Metalaxyl	0.51	U	ng/L	P436713	
		Metolachlor	0.76	U	ng/L	P436713	
		Metribuzin	0.41	UJ	ng/L	P436713	LCS
		Mevinphos	1.0	U	ng/L	P436713	
		Molinate	0.25	U	ng/L	P436713	
		Myclobutanil	0.36	U	ng/L	P436713	
		Naled	2.5	U	ng/L	P436713	
		Napropamide	0.71	U	ng/L	P436713	
		Norflurazon	1.0	U	ng/L	P436713	
		Oxadiazon	0.36	U	ng/L	P436713	
		Oxyfluorfen	0.20	U	ng/L	P436713	MS, RPD
		Parathion Ethyl	0.15	U	ng/L	P436713	
		Parathion Methyl	0.20	U	ng/L	P436713	
		Pendimethalin	1.7	U	ng/L	P436713	
		Phenytol**	5.4	U	ng/L	P436713	
		Phorate	0.25	U	ng/L	P436713	
		Prodiamine	0.20	UJ	ng/L	P436713	CCV
		Prometon	3.0	U	ng/L	P436713	
		Prometryn	0.36	U	ng/L	P436713	
		Pronamide	0.10	U	ng/L	P436713	
		Propanil	0.10	U	ng/L	P436713	
		Propargite	0.81	U	ng/L	P436713	
		Propiconazole	0.61	U	ng/L	P436713	
		Pyraflufen Ethyl	0.30	U	ng/L	P436713	
		Pyridaben	1.4	U	ng/L	P436713	
		Pyriproxyfen	0.25	U	ng/L	P436713	
		Simazine	0.25	U	ng/L	P436713	
		Stirophos	0.41	U	ng/L	P436713	
		Sulfentrazone	1.4	U	ng/L	P436713	MS
		Tebuconazole	1.4	U	ng/L	P436713	
		Terbufos	0.20	U	ng/L	P436713	RPD
		Terbutylazine	0.20	U	ng/L	P436713	
		Thiobencarb	0.51	U	ng/L	P436713	
		Triadimefon	0.15	UJ	ng/L	P436713	LCS

Field ID: 20020430

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for aluminum are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.
EPA 8270E: 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: P436711

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436706

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436747

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: P436747

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: P437371

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: P437375

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436815

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436778

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436906

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436721

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436694

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

Reference Method: EPA 8270E
Batch ID: P436713

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: P436713

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: P436713

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	1.7	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: P436574

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: P436596

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: P436596

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: P436799

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

Reference Method: SM 2540 C-2015

Batch ID: P437082

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P437021

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P436803

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P436903

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: P436711

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: P436706

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436747

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	106		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	88.5		P	85 - 115
Sodium	109		P	85 - 115
Strontium	103		P	85 - 115
Tin	102		P	85 - 115
Titanium	100		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436747

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.3		P	85 - 115
Antimony	96.0		P	85 - 115
Arsenic	98.6		P	85 - 115
Barium	101		P	85 - 115
Beryllium	94.9		P	85 - 115
Boron	102		P	85 - 115
Cadmium	97.6		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	97.2		P	85 - 115
Copper	97.4		P	85 - 115
Lead	92.3		P	85 - 115
Manganese	99.9		P	85 - 115
Molybdenum	97.0		P	85 - 115
Nickel	98.5		P	85 - 115
Selenium	98.6		P	85 - 115
Silver	104		P	85 - 115
Thallium	98.9		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437371

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437375

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436815

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436778

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436906

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436721

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436694

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.0		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P436713

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	73.6		P	50 - 150
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	20.1		F	37 - 154
Acetochlor	68.0		P	64 - 124
Alachlor	81.1		P	61 - 118
Ametryn	111		P	47 - 158
Atrazine	118		P	68 - 121
Atrazine Desethyl	107		P	30 - 119
Avobenzone	108		P	48 - 193
Azinphos Methyl	53.8		P	30 - 194
Azoxystrobin	85.3		P	58 - 154
Bromacil	93.0		P	47 - 126
Butylate	59.7		P	31 - 83.0
Caffeine	146		P	10 - 180
Carbophenothion	118		P	59 - 133
Carfentrazone Ethyl	95.7		P	59 - 147
Chlorfenapyr	75.2		P	52 - 118

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P436713

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	108		P	59 - 119
Chlorpyrifos Methyl	99.6		P	65 - 123
Coumaphos	113		P	11 - 223
Cyanazine	88.9		P	63 - 250
Cyprodinil	89.0		P	52 - 143
Dechlorane 602	57.5		P	23 - 142
Dechlorane 603	82.3		P	51 - 171
Dechlorane Plus	75.2		P	46 - 161
Demeton	89.3		P	42 - 119
Diazinon	98.3		P	67 - 132
Difenoconazole	64.5		P	12 - 204
Dimethenamid	83.5		P	53 - 113
Dimethomorph	150		P	13 - 238
Disulfoton	80.3		P	56 - 126
Dithiopyr	91.2		P	58 - 127
EPTC	56.0		P	31 - 78.0
Ethion	63.8		P	24 - 127
Ethoprop	93.4		P	60 - 118
Etridiazole	66.7		P	32 - 91.0
Fenamiphos	112		P	54 - 129
Fenbuconazole	53.1		P	31 - 162
Fipronil	66.2		P	56 - 131
Fipronil Desulfinyl	73.5		P	58 - 132
Fipronil Sulfide	65.7		P	51 - 123
Fipronil Sulfone	90.7		P	50 - 125
Fluazifop-P-butyl	95.4		P	52 - 132
Fludioxonil	82.5		P	52 - 129
Flumioxazin	56.5		P	34 - 250
Flutolanil	71.9		P	45 - 128
Fluxapyroxad	92.6		P	31 - 150
Fonofos	87.8		P	60 - 116
Hexabromobenzene	71.2		P	52 - 165
Hexazinone	108		P	59 - 120
Imazalil	115		P	39 - 134
Iprodione	110		P	39 - 243
Loratadine	147		P	10 - 240
Malathion	125		P	53 - 145
Metalaxyl	93.0		P	59 - 120
Metolachlor	103		P	64 - 122
Metribuzin	12.8		F	33 - 128
Mevinphos	102		P	48 - 119
Molinate	72.5		P	42 - 89.0
Myclobutanil	76.9		P	54 - 129
Naled	51.4		P	10 - 138
Napropamide	73.1		P	40 - 122
Norflurazon	81.3		P	49 - 132
Octinoxate	113		P	29 - 176
Oxadiazon	77.0		P	50 - 115
Oxybenzone	117		P	45 - 145
Oxyfluorfen	99.8		P	62 - 149
Parathion Ethyl	109		P	68 - 119
Parathion Methyl	133		P	68 - 147

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P436713

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBB-153	31.3		F	42 - 179
PBDE-47	79.5		P	44 - 141
PBDE-99	51.6		P	36 - 141
Pendimethalin	133		P	59 - 158
Pentabromotoluene	85.3		P	58 - 148
Phenytoin	55.8		P	10 - 151
Phorate	104		P	44 - 124
Prodiamine	54.1		P	10 - 136
Prometon	101		P	45 - 131
Prometryn	92.5		P	52 - 140
Pronamide	106		P	70 - 129
Propanil	116		P	54 - 144
Propargite	87.0		P	10 - 191
Propiconazole	63.7		P	49 - 128
Pyraflufen Ethyl	88.3		P	46 - 141
Pyridaben	90.7		P	29 - 198
Pyriproxyfen	56.0		P	33 - 221
Simazine	108		P	62 - 119
Stiropfos	91.6		P	13 - 144
Sulfentrazone	110		P	12 - 152
Tebuconazole	68.0		P	10 - 135
Terbufos	98.5		P	67 - 136
Terbuthylazine	70.6		P	66 - 113
Tetradecachloro-m-terphenyl	132		P	30 - 235
Thiobencarb	93.5		P	51 - 125
Tri-o-cresyl Phosphate	98.3		P	50 - 150
Triadimefon	125		F	57 - 118
Tris(1-chloro-2-propyl) phosphate (TCPP)	127		P	60 - 160
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	99.1		P	66 - 141
Tris(2-chloroethyl) phosphate (TCEP)	107		P	59 - 166

Reference Method: EPA 8321B

Batch ID: P436574

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	107		P	40 - 150
AMPA	123		P	40 - 150
Endothall	87.3		P	40 - 150
Glufosinate	95.4		P	40 - 150
Glyphosate	88.2		P	40 - 150
Sucralose	102		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436596

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	65.2		P	40 - 150
2,4,5-T	80.5		P	40 - 150
Acetaminophen	88.6		P	30 - 150
Acetamiprid	73.6		P	40 - 150
Afidopyropen	73.8		P	30 - 150
Bentazon	105		P	30 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P436596

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	73.8		P	40 - 150
Carbamazepine	75.9		P	40 - 150
Clothianidin	83.4		P	40 - 150
Dinotefuran	93.6		P	40 - 150
Diuron	68.1		P	40 - 150
Fenuron	88.5		P	40 - 150
Fluridone	74.0		P	40 - 150
Hydrocodone	90.2		P	40 - 150
Ibuprofen	74.8		P	40 - 150
Imazapyr	72.6		P	40 - 150
Imidacloprid	78.4		P	40 - 150
Linuron	61.4		P	40 - 150
Mandestrobin	79.1		P	40 - 150
MCPP	77.8		P	40 - 150
Naproxen	44.8		P	40 - 150
Primidone	78.2		P	40 - 150
Pyraclostrobin	69.6		P	40 - 150
Silvex	59.8		P	40 - 150
Thiamethoxam	84.0		P	40 - 150
Tolfenpyrad	49.3		P	30 - 150
Triclopyr	64.8		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P436799

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.1		P	92 - 105

Reference Method: SM 2540 C-2015

Batch ID: P437082

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	93.2		P	85 - 115

Reference Method: SM 2540 D-2015

Batch ID: P437021

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	95.2		P	85 - 115

Reference Method: SM 4500-F- C-2011

Batch ID: P436803

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.7		P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P436903

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P436747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445592	Calcium	104		P	80 - 120
2445592	Iron	106	106	P/P	80 - 120
2445592	Magnesium	102		P	80 - 120
2445592	Potassium	89.9	88.0	P/P	80 - 120
2445592	Sodium	109	109	P/P	80 - 120
2445592	Strontium	103	104	P/P	80 - 120
2445592	Tin	106	104	P/P	80 - 120
2445592	Titanium	101	101	P/P	80 - 120
2445592	Vanadium	103	103	P/P	80 - 120
2445592	Zinc	102	101	P/P	80 - 120
2445687	Calcium	103		P	80 - 120
2445687	Iron	101		P	80 - 120
2445687	Magnesium	102		P	80 - 120
2445687	Potassium	86.1		P	80 - 120
2445687	Sodium	104		P	80 - 120
2445687	Strontium	99.1		P	80 - 120
2445687	Tin	101		P	80 - 120
2445687	Titanium	98.2		P	80 - 120
2445687	Vanadium	101		P	80 - 120
2445687	Zinc	99.5		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P436747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445592	Aluminum	99.5	100	P/P	80 - 120
2445592	Antimony	99.8	99.0	P/P	80 - 120
2445592	Arsenic	101	99.0	P/P	80 - 120
2445592	Barium	102	102	P/P	80 - 120
2445592	Beryllium	94.8	94.8	P/P	80 - 120
2445592	Boron	101	103	P/P	80 - 120
2445592	Cadmium	102	99.2	P/P	80 - 120
2445592	Chromium	102	102	P/P	80 - 120
2445592	Cobalt	95.7	95.0	P/P	80 - 120
2445592	Copper	95.8	94.6	P/P	80 - 120
2445592	Lead	92.2	92.2	P/P	80 - 120
2445592	Manganese	101	100	P/P	80 - 120
2445592	Molybdenum	100	98.3	P/P	80 - 120
2445592	Nickel	95.9	95.5	P/P	80 - 120
2445592	Selenium	99.1	98.5	P/P	80 - 120
2445592	Silver	106	104	P/P	80 - 120
2445592	Thallium	99.9	101	P/P	80 - 120
2445687	Antimony	96.2		P	80 - 120
2445687	Arsenic	97.8		P	80 - 120
2445687	Barium	99.2		P	80 - 120
2445687	Beryllium	93.8		P	80 - 120
2445687	Boron	99.1		P	80 - 120
2445687	Cadmium	96.1		P	80 - 120
2445687	Chromium	99.4		P	80 - 120
2445687	Cobalt	95.5		P	80 - 120
2445687	Copper	96.4		P	80 - 120
2445687	Lead	91.6		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445687	Manganese	97.5		P	80 - 120
2445687	Molybdenum	96.5		P	80 - 120
2445687	Nickel	95.7		P	80 - 120
2445687	Selenium	86.0		P	80 - 120
2445687	Silver	101		P	80 - 120
2445687	Thallium	101		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437371

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445505	Chloride	100		P	90 - 110
2445607	Chloride	105		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437375

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445505	Sulfate	100		P	90 - 110
2445607	Sulfate	104		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436815

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445603	Ammonia-N	98.8	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436778

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445929	Kjeldahl Nitrogen	102	109	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445180	NO2NO3-N	94.7	95.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436721

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445606	Total-P	104	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436694

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445591	O-Phosphate-P	97.5	98.4	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436713

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445500	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	56.1	61.8	P/P	50 - 150
2445500	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	74.6	72.8	P/P	29 - 155
2445500	Acetochlor	88.0	83.6	P/P	60 - 124
2445500	Alachlor	76.0	101	P/P	54 - 122
2445500	Ametryn	98.0	75.3	P/P	51 - 208
2445500	Atrazine	108	104	P/P	57 - 131
2445500	Atrazine Desethyl	74.4	81.8	P/P	13 - 124
2445500	Avobenzone	92.2	103	P/P	35 - 187
2445500	Azinphos Methyl	148	174	P/P	43 - 276
2445500	Azoxystrobin	87.1	96.6	P/P	52 - 300
2445500	Bromacil	80.1	59.1	P/P	44 - 134
2445500	Butylate	70.7	74.8	P/P	23 - 82.0
2445500	Caffeine	110	118	P/P	10 - 277
2445500	Carbophenothion	66.3	69.7	P/P	47 - 135
2445500	Carfentrazone Ethyl	69.4	74.7	P/P	46 - 147
2445500	Chlorfenapyr	77.2	61.7	P/P	43 - 114
2445500	Chlorpyrifos Ethyl	72.2	60.9	P/P	47 - 124
2445500	Chlorpyrifos Methyl	84.4	70.8	P/P	60 - 135
2445500	Coumaphos	74.8	73.8	P/P	10 - 222
2445500	Cyanazine	102	93.6	P/P	10 - 257
2445500	Cyprodinil	78.3	83.6	P/P	42 - 148
2445500	Dechlorane 602	40.1	41.4	P/P	14 - 133
2445500	Dechlorane 603	76.0	80.1	P/P	18 - 191
2445500	Dechlorane Plus	71.9	65.2	P/P	23 - 154
2445500	Demeton	98.5	119	P/P	41 - 137
2445500	Diazinon	88.4	89.4	P/P	64 - 139
2445500	Difenoconazole	145	123	P/P	46 - 254
2445500	Dimethenamid	85.8	87.0	P/P	47 - 117
2445500	Dimethomorph	199	172	P/P	14 - 255
2445500	Disulfoton	112	83.9	P/P	52 - 130
2445500	Dithiopyr	84.5	66.4	P/P	40 - 121
2445500	EPTC	59.6	51.7	P/P	19 - 78.0
2445500	Ethion	62.4	58.7	P/P	12 - 124
2445500	Ethoprop	102	101	P/P	68 - 144
2445500	Etridiazole	79.3	84.9	P/P	26 - 96.0
2445500	Fenamiphos	74.4	53.0	P/P	41 - 129
2445500	Fenbuconazole	74.9	84.9	P/P	26 - 169
2445500	Fipronil	69.9	51.4	P/P	46 - 145
2445500	Fipronil Desulfinyl	58.8	46.4	P/F	47 - 136
2445500	Fipronil Sulfide	59.1	45.2	P/P	41 - 127
2445500	Fipronil Sulfone	141	80.3	F/P	35 - 133
2445500	Fluazifop-P-butyl	72.1	57.8	P/P	46 - 131
2445500	Fludioxonil	86.6	64.8	P/P	51 - 124
2445500	Flumioxazin	154	140	P/P	10 - 289
2445500	Flutolanil	71.2	62.0	P/P	34 - 130
2445500	Fluxapyroxad	137	93.3	P/P	10 - 197
2445500	Fonofos	90.8	69.9	P/P	42 - 131
2445500	Hexabromobenzene	88.5	93.7	P/P	47 - 178
2445500	Hexazinone	104	99.1	P/P	64 - 125
2445500	Imazalil	58.0	43.0	P/P	37 - 252
2445500	Iprodione	89.4	73.3	P/P	34 - 265
2445500	Loratadine	64.0	66.9	P/P	20 - 231

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P436713

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445500	Malathion	125	99.5	P/P	34 - 164
2445500	Metalaxyl	93.2	112	P/P	49 - 125
2445500	Metolachlor	91.5	68.9	P/P	54 - 125
2445500	Metribuzin	51.2	81.5	P/P	51 - 139
2445500	Mevinphos	96.2	94.8	P/P	46 - 130
2445500	Molinate	65.9	83.8	P/P	39 - 93.0
2445500	Myclobutanil	103	94.5	P/P	50 - 130
2445500	Naled	55.4	62.4	P/P	10 - 150
2445500	Napropamide	69.8	72.1	P/P	10 - 109
2445500	Norflurazon	70.9	64.9	P/P	36 - 134
2445500	Octinoxate	101	101	P/P	18 - 170
2445500	Oxadiazon	65.8	53.5	P/P	43 - 112
2445500	Oxybenzone	109	103	P/P	33 - 154
2445500	Oxyfluorfen	183	117	F/P	62 - 154
2445500	Parathion Ethyl	115	114	P/P	65 - 120
2445500	Parathion Methyl	107	91.4	P/P	77 - 185
2445500	PBB-153	72.6	86.6	P/P	23 - 193
2445500	PBDE-47	62.6	59.3	P/P	31 - 139
2445500	PBDE-99	55.1	58.8	P/P	24 - 138
2445500	Pendimethalin	113	109	P/P	50 - 146
2445500	Pentabromotoluene	85.6	84.2	P/P	54 - 152
2445500	Phenytoin	42.0	44.6	P/P	10 - 157
2445500	Phorate	134	131	P/P	54 - 161
2445500	Prodiamine	65.7	62.1	P/P	29 - 160
2445500	Prometon	145	134	P/P	38 - 145
2445500	Prometryn	91.9	84.3	P/P	32 - 151
2445500	Pronamide	124	105	P/P	61 - 140
2445500	Propanil	99.8	99.2	P/P	50 - 147
2445500	Propargite	93.6	80.6	P/P	10 - 190
2445500	Propiconazole	73.4	58.7	P/P	30 - 146
2445500	Pyraflufen Ethyl	47.1	46.8	P/P	30 - 147
2445500	Pyridaben	146	98.1	P/P	15 - 195
2445500	Pyriproxyfen	79.9	76.0	P/P	31 - 218
2445500	Simazine	112	104	P/P	45 - 139
2445500	Stirophos	58.9	55.5	P/P	10 - 134
2445500	Sulfentrazone	46.2	41.9	F/F	53 - 186
2445500	Tebuconazole	53.1	42.3	P/P	10 - 133
2445500	Terbufos	116	83.7	P/P	65 - 151
2445500	Terbutylazine	111	89.0	P/P	62 - 117
2445500	Tetradecachloro-m-terphenyl	143	137	P/P	10 - 260
2445500	Thiobencarb	96.2	82.8	P/P	48 - 122
2445500	Tri-o-cresyl Phosphate	94.3	96.6	P/P	32 - 151
2445500	Triadimefon	66.2	61.7	P/P	46 - 124
2445500	Tris(1-chloro-2-propyl) phosphate (TCPP)	122	118	P/P	51 - 154
2445500	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	91.9	84.5	P/P	59 - 147
2445500	Tris(2-chloroethyl) phosphate (TCEP)	97.5	112	P/P	65 - 156

Reference Method: EPA 8321B

Batch ID: P436574

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445134	Acesulfame K	112	111	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P436574

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445134	AMPA	186	190	F/F	40 - 150
2445134	Endothall	83.0	78.3	P/P	40 - 150
2445134	Glufosinate	89.4	84.6	P/P	40 - 150
2445134	Glyphosate	75.9	74.8	P/P	40 - 150
2445134	Sucralose	105	98.2	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P436596

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445134	2,4-D	77.7	74.4	P/P	40 - 150
2445134	2,4,5-T	86.1	90.4	P/P	40 - 150
2445134	Acetaminophen	94.8	94.4	P/P	30 - 150
2445134	Acetamiprid	55.9	56.6	P/P	40 - 150
2445134	Afidopyropen	64.5	66.7	P/P	30 - 150
2445134	Bentazon	135	133	P/P	30 - 150
2445134	Benzovindiflupyr	62.1	66.4	P/P	40 - 150
2445134	Carbamazepine	60.2	62.5	P/P	40 - 150
2445134	Clothianidin	79.6	81.7	P/P	40 - 150
2445134	Dinotefuran	78.3	80.2	P/P	40 - 150
2445134	Diuron	48.2	49.5	P/P	40 - 150
2445134	Fenuron	51.4	53.3	P/P	40 - 150
2445134	Fluridone	59.0	59.4	P/P	40 - 150
2445134	Hydrocodone	68.0	69.8	P/P	40 - 150
2445134	Ibuprofen	77.3	66.6	P/P	40 - 150
2445134	Imazapyr	88.4	88.1	P/P	40 - 150
2445134	Imidacloprid	97.3	103	P/P	40 - 150
2445134	Linuron	51.7	57.2	P/P	40 - 150
2445134	Mandestrobin	75.7	73.1	P/P	40 - 150
2445134	MCPP	91.2	88.5	P/P	40 - 150
2445134	Naproxen	45.4	50.8	P/P	40 - 150
2445134	Primidone	70.4	75.9	P/P	40 - 150
2445134	Pyraclostrobin	69.7	71.9	P/P	40 - 150
2445134	Silvex	75.7	74.6	P/P	40 - 150
2445134	Thiamethoxam	84.6	88.7	P/P	40 - 150
2445134	Tolfenpyrad	58.1	58.8	P/P	30 - 150
2445134	Triclopyr	72.0	78.7	P/P	40 - 150

Reference Method: SM 5310 B-2011

Batch ID: P436903

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2445610	Organic Carbon	97.2	99.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P436711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445629	Color (true)	1.49	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P436706

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445503	Turbidity	2.30	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P436747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445592	Calcium	2.01	Spike	P	0 - 20
2445592	Iron	0.173	Spike	P	0 - 20
2445592	Magnesium	1.42	Spike	P	0 - 20
2445592	Potassium	1.75	Spike	P	0 - 20
2445592	Sodium	0.0215	Spike	P	0 - 20
2445592	Strontium	0.263	Spike	P	0 - 20
2445592	Tin	1.89	Spike	P	0 - 20
2445592	Titanium	0.225	Spike	P	0 - 20
2445592	Vanadium	0.0740	Spike	P	0 - 20
2445592	Zinc	1.32	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P436747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445592	Aluminum	0.590	Spike	P	0 - 20
2445592	Antimony	0.833	Spike	P	0 - 20
2445592	Arsenic	1.70	Spike	P	0 - 20
2445592	Barium	0.358	Spike	P	0 - 20
2445592	Beryllium	0.0294	Spike	P	0 - 20
2445592	Boron	1.16	Spike	P	0 - 20
2445592	Cadmium	2.52	Spike	P	0 - 20
2445592	Chromium	0.154	Spike	P	0 - 20
2445592	Cobalt	0.647	Spike	P	0 - 20
2445592	Copper	1.24	Spike	P	0 - 20
2445592	Lead	0.0317	Spike	P	0 - 20
2445592	Manganese	0.172	Spike	P	0 - 20
2445592	Molybdenum	1.59	Spike	P	0 - 20
2445592	Nickel	0.434	Spike	P	0 - 20
2445592	Selenium	0.637	Spike	P	0 - 20
2445592	Silver	1.52	Spike	P	0 - 20
2445592	Thallium	1.24	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437371

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445505	Chloride	0.435	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P437375

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445505	Sulfate	6.33	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P436815

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445603	Ammonia-N	3.25	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P436778

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445929	Kjeldahl Nitrogen	4.98	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P436906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445180	NO2NO3-N	1.02	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P436721

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445606	Total-P	0.634	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P436694

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445591	O-Phosphate-P	0.856	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P436713

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445500	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	9.58	Spike	P	0 - 30
2445500	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	2.38	Spike	P	0 - 35

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P436713

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445500	Acetochlor	5.14	Spike	P	0 - 28
2445500	Alachlor	27.8	Spike	P	0 - 30
2445500	Ametryn	26.1	Spike	P	0 - 32
2445500	Atrazine	4.01	Spike	P	0 - 33
2445500	Atrazine Desethyl	9.58	Spike	P	0 - 36
2445500	Avobenzone	11.5	Spike	P	0 - 35
2445500	Azinphos Methyl	15.7	Spike	P	0 - 62
2445500	Azoxystrobin	9.87	Spike	P	0 - 39
2445500	Bromacil	30.2	Spike	P	0 - 33
2445500	Butylate	5.57	Spike	P	0 - 51
2445500	Caffeine	6.56	Spike	P	0 - 100
2445500	Carbophenothion	5.03	Spike	P	0 - 34
2445500	Carfentrazone Ethyl	7.34	Spike	P	0 - 33
2445500	Chlorfenapyr	22.4	Spike	P	0 - 28
2445500	Chlorpyrifos Ethyl	16.9	Spike	P	0 - 31
2445500	Chlorpyrifos Methyl	17.5	Spike	P	0 - 27
2445500	Coumaphos	1.33	Spike	P	0 - 62
2445500	Cyanazine	8.52	Spike	P	0 - 48
2445500	Cyprodinil	6.62	Spike	P	0 - 29
2445500	Dechlorane 602	3.13	Spike	P	0 - 60
2445500	Dechlorane 603	5.31	Spike	P	0 - 40
2445500	Dechlorane Plus	9.80	Spike	P	0 - 38
2445500	Demeton	19.0	Spike	P	0 - 33
2445500	Diazinon	1.13	Spike	P	0 - 32
2445500	Difenoconazole	16.6	Spike	P	0 - 71
2445500	Dimethenamid	1.35	Spike	P	0 - 60
2445500	Dimethomorph	14.9	Spike	P	0 - 61
2445500	Disulfoton	28.5	Spike	P	0 - 30
2445500	Dithiopyr	24.0	Spike	P	0 - 28
2445500	EPTC	14.3	Spike	P	0 - 56
2445500	Ethion	6.22	Spike	P	0 - 79
2445500	Ethoprop	1.52	Spike	P	0 - 31
2445500	Etridiazole	6.85	Spike	P	0 - 43
2445500	Fenamiphos	28.9	Spike	P	0 - 43
2445500	Fenbuconazole	12.4	Spike	P	0 - 79
2445500	Fipronil	30.5	Spike	P	0 - 46
2445500	Fipronil Desulfinyl	23.5	Spike	P	0 - 36
2445500	Fipronil Sulfide	26.7	Spike	P	0 - 34
2445500	Fipronil Sulfone	54.8	Spike	F	0 - 47
2445500	Fluazifop-P-butyl	22.0	Spike	P	0 - 38
2445500	Fludioxonil	28.8	Spike	P	0 - 29
2445500	Flumioxazin	9.52	Spike	P	0 - 63
2445500	Flutolanil	13.1	Spike	P	0 - 36
2445500	Fluxapyroxad	37.9	Spike	P	0 - 65
2445500	Fonofos	25.9	Spike	P	0 - 35
2445500	Hexabromobenzene	5.77	Spike	P	0 - 41
2445500	Hexazinone	5.26	Spike	P	0 - 31
2445500	Imazalil	29.7	Spike	P	0 - 52
2445500	Iprodione	19.9	Spike	P	0 - 49
2445500	Loratadine	4.52	Spike	P	0 - 59
2445500	Malathion	22.8	Spike	P	0 - 77

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P436713

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445500	Metalaxyl	18.0	Spike	P	0 - 76
2445500	Metolachlor	23.0	Spike	P	0 - 29
2445500	Metribuzin	45.6	Spike	P	0 - 51
2445500	Mevinphos	1.45	Spike	P	0 - 31
2445500	Molinate	24.0	Spike	P	0 - 39
2445500	Myclobutanil	8.37	Spike	P	0 - 34
2445500	Naled	12.0	Spike	P	0 - 37
2445500	Napropamide	3.29	Spike	P	0 - 100
2445500	Norflurazon	8.87	Spike	P	0 - 54
2445500	Octinoxate	0.192	Spike	P	0 - 35
2445500	Oxadiazon	20.6	Spike	P	0 - 34
2445500	Oxybenzone	5.04	Spike	P	0 - 35
2445500	Oxyfluorfen	44.2	Spike	F	0 - 28
2445500	Parathion Ethyl	0.972	Spike	P	0 - 31
2445500	Parathion Methyl	15.2	Spike	P	0 - 29
2445500	PBB-153	17.5	Spike	P	0 - 49
2445500	PBDE-47	5.40	Spike	P	0 - 36
2445500	PBDE-99	6.46	Spike	P	0 - 46
2445500	Pendimethalin	3.42	Spike	P	0 - 31
2445500	Pentabromotoluene	1.68	Spike	P	0 - 16
2445500	Phenytoin	6.16	Spike	P	0 - 100
2445500	Phorate	1.92	Spike	P	0 - 36
2445500	Prodiamine	5.67	Spike	P	0 - 68
2445500	Prometon	7.63	Spike	P	0 - 35
2445500	Prometryn	8.65	Spike	P	0 - 33
2445500	Pronamide	16.5	Spike	P	0 - 24
2445500	Propanil	0.683	Spike	P	0 - 28
2445500	Propargite	14.9	Spike	P	0 - 53
2445500	Propiconazole	22.3	Spike	P	0 - 44
2445500	Pyraflufen Ethyl	0.406	Spike	P	0 - 61
2445500	Pyridaben	39.3	Spike	P	0 - 43
2445500	Pyriproxyfen	4.99	Spike	P	0 - 82
2445500	Simazine	7.75	Spike	P	0 - 29
2445500	Stirophos	5.97	Spike	P	0 - 100
2445500	Sulfentrazone	9.84	Spike	P	0 - 64
2445500	Tebuconazole	18.0	Spike	P	0 - 76
2445500	Terbufos	32.4	Spike	F	0 - 29
2445500	Terbuthylazine	22.1	Spike	P	0 - 28
2445500	Tetradecachloro-m-terphenyl	4.24	Spike	P	0 - 42
2445500	Thiobencarb	15.0	Spike	P	0 - 26
2445500	Tri-o-cresyl Phosphate	2.38	Spike	P	0 - 24
2445500	Triadimefon	7.06	Spike	P	0 - 40
2445500	Tris(1-chloro-2-propyl) phosphate (TCPP)	3.66	Spike	P	0 - 30
2445500	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	8.36	Spike	P	0 - 22
2445500	Tris(2-chloroethyl) phosphate (TCEP)	13.5	Spike	P	0 - 15

Reference Method: EPA 8321B

Batch ID: P436574

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: P436574

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445134	Acesulfame K	0.251	Spike	P	0 - 30
2445134	AMPA	2.06	Spike	P	0 - 30
2445134	Endothall	5.81	Spike	P	0 - 30
2445134	Glufosinate	5.53	Spike	P	0 - 30
2445134	Glyphosate	1.42	Spike	P	0 - 30
2445134	Sucralose	6.30	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P436596

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445134	2,4-D	4.27	Spike	P	0 - 30
2445134	2,4,5-T	4.88	Spike	P	0 - 30
2445134	Acetaminophen	0.454	Spike	P	0 - 30
2445134	Acetamiprid	1.14	Spike	P	0 - 30
2445134	Afidopyropen	3.33	Spike	P	0 - 30
2445134	Bentazon	1.55	Spike	P	0 - 30
2445134	Benzovindiflupyr	6.76	Spike	P	0 - 30
2445134	Carbamazepine	3.63	Spike	P	0 - 30
2445134	Clothianidin	2.70	Spike	P	0 - 30
2445134	Dinotefuran	2.33	Spike	P	0 - 30
2445134	Diuron	2.55	Spike	P	0 - 30
2445134	Fenuron	3.67	Spike	P	0 - 30
2445134	Fluridone	0.534	Spike	P	0 - 30
2445134	Hydrocodone	2.68	Spike	P	0 - 30
2445134	Ibuprofen	14.9	Spike	P	0 - 30
2445134	Imazapyr	0.247	Spike	P	0 - 30
2445134	Imidacloprid	5.72	Spike	P	0 - 30
2445134	Linuron	10.0	Spike	P	0 - 30
2445134	Mandestrobin	3.44	Spike	P	0 - 30
2445134	MCPP	3.00	Spike	P	0 - 30
2445134	Naproxen	11.3	Spike	P	0 - 30
2445134	Primidone	7.55	Spike	P	0 - 30
2445134	Pyraclostrobin	3.01	Spike	P	0 - 30
2445134	Silvex	1.52	Spike	P	0 - 30
2445134	Thiamethoxam	4.80	Spike	P	0 - 30
2445134	Tolfenpyrad	1.21	Spike	P	0 - 30
2445134	Triclopyr	8.92	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P436799

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445672	Total Alkalinity	1.03	Sample	P	0 - 3.9

Quality Assurance Report Precision

Reference Method: SM 2540 C-2015
Batch ID: P437082

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445187	TDS	5.22	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P436803

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445672	Fluoride	0.947	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P436903

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2445610	Organic Carbon	1.74	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2445628
Field Sample ID: 20020430

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	88.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	49.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	47.4	P	30 - 160
EPA 8321B	Diuron-d6	32.6	P	30 - 160
EPA 8321B	Endothall-d6	80.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	78.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	62.4	P	30 - 160
EPA 8321B	Primidone-d5	36.0	P	30 - 160
EPA 8321B	Sucralose-d6	99.4	P	30 - 160

Lab Sample ID: 2445636
Field Sample ID: 20020430

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	69.4	P	20 - 200
EPA 8270E	Simazine-d10	89.9	P	58 - 137
EPA 8270E	Terbufos-d10	91.2	P	50 - 134
EPA 8270E	Terphenyl-d14	115	P	44 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122179
Included Lab Sample IDs: 2445628

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	117	113	P/P	60 - 160
Sucralose	96.2	98.0	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A122222
Included Lab Sample IDs: 2445625

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.7	99.3	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A122224
Included Lab Sample IDs: 2445623

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

Reference Method: DEP SOP: NU-094-1
Run ID: A122227
Included Lab Sample IDs: 2445623

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A122258
Included Lab Sample IDs: 2445624

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	98.4	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A122259
Included Lab Sample IDs: 2445623

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.8	95.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A122259
Included Lab Sample IDs: 2445623

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A122263
Included Lab Sample IDs: 2445624

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.2	98.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A122271

Included Lab Sample IDs: 2445632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	104	103	P/P	90 - 110
Iron	104	101	P/P	90 - 110
Magnesium	104	101	P/P	90 - 110
Potassium	97.7	95.7	P/P	90 - 110
Sodium	107	104	P/P	90 - 110
Strontium	104	101	P/P	90 - 110
Tin	99.9	99.6	P/P	90 - 110
Titanium	99.9	99.3	P/P	90 - 110
Vanadium	101	101	P/P	90 - 110
Zinc	101	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A122278

Included Lab Sample IDs: 2445632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.3	97.6	P/P	90 - 110
Antimony	95.8	94.9	P/P	90 - 110
Arsenic	98.1	98.0	P/P	90 - 110
Barium	98.9	97.5	P/P	90 - 110
Beryllium	97.9	96.8	P/P	90 - 110
Boron	97.4	99.6	P/P	90 - 110
Cadmium	99.4	97.7	P/P	90 - 110
Chromium	103	101	P/P	90 - 110
Cobalt	97.5	97.2	P/P	90 - 110
Copper	96.8	97.0	P/P	90 - 110
Lead	92.1	91.2	P/P	90 - 110
Manganese	102	102	P/P	90 - 110
Molybdenum	97.7	97.3	P/P	90 - 110
Nickel	98.0	97.4	P/P	90 - 110
Selenium	99.3	99.8	P/P	90 - 110
Silver	97.2	95.3	P/P	90 - 110
Thallium	100	97.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A122299

Included Lab Sample IDs: 2445624

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	96.5	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A122308

Included Lab Sample IDs: 2445624

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.1	96.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A122309

Included Lab Sample IDs: 2445624

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	90.9	90.5	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A122330

Included Lab Sample IDs: 2445636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	94.5		P	80 - 120
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	88.8		P	80 - 120
Avobenzone	89.6		P	80 - 120
Dechlorane 602	98.3		P	80 - 120
Dechlorane 603	93.8		P	80 - 120
Dechlorane Plus	94.0		P	80 - 120
Hexabromobenzene	91.0		P	80 - 120
Octinoxate	90.6		P	80 - 120
Oxybenzone	93.2		P	80 - 120
PBB-153	87.2		P	80 - 120
PBDE-47	89.3		P	80 - 120
PBDE-99	88.5		P	80 - 120
Pentabromotoluene	96.0		P	80 - 120
Tetradecachloro-m-terphenyl	90.4		P	80 - 120
Tri-o-cresyl Phosphate	94.0		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	96.1		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	95.1		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	97.6		P	80 - 120

Reference Method: EPA 8321B

Run ID: A122336

Included Lab Sample IDs: 2445628

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	97.4	90.0	P/P	60 - 160
Endothall	94.7	88.7	P/P	60 - 160
Glufosinate	95.8	90.5	P/P	60 - 160
Glyphosate	99.4	93.3	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A122342

Included Lab Sample IDs: 2445628

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	75.4	74.2	P/P	50 - 150
2,4,5-T	68.7	84.0	P/P	50 - 150
Acetaminophen	115	111	P/P	60 - 160
Acetamiprid	109	112	P/P	50 - 150
Afidopyropen	110	116	P/P	50 - 150
Bentazon	108	103	P/P	50 - 160
Benzovindiflupyr	101	104	P/P	50 - 150
Carbamazepine	108	109	P/P	60 - 150
Clothianidin	104	115	P/P	60 - 150
Dinotefuran	108	103	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A122342
Included Lab Sample IDs: 2445628

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diuron	112	113	P/P	60 - 160
Fenuron	112	112	P/P	60 - 150
Fluridone	111	108	P/P	60 - 160
Hydrocodone	113	120	P/P	60 - 150
Ibuprofen	104	105	P/P	50 - 160
Imazapyr	79.3	77.2	P/P	50 - 150
Imidacloprid	97.5	99.7	P/P	60 - 150
Linuron	93.7	101	P/P	60 - 150
Mandestrobin	108	112	P/P	50 - 150
MCPP	79.3	77.3	P/P	50 - 150
Naproxen	61.5	96.3	P/P	50 - 160
Primidone	98.3	108	P/P	60 - 150
Pyraclostrobin	114	111	P/P	60 - 150
Silvex	76.8	74.9	P/P	50 - 150
Thiamethoxam	108	110	P/P	50 - 150
Tolfenpyrad	119	118	P/P	60 - 150
Triclopyr	64.4	67.1	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A122479
Included Lab Sample IDs: 2445623

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

Reference Method: EPA 8270E
Run ID: A122612
Included Lab Sample IDs: 2445636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	79.0*		F	80 - 120
Alachlor	90.3		P	80 - 120
Ametryn	117		P	80 - 120
Atrazine	99.4		P	80 - 120
Atrazine Desethyl	101		P	80 - 120
Azinphos Methyl	104		P	80 - 120
Azoxystrobin	94.1		P	80 - 120
Bromacil	92.4		P	80 - 120
Butylate	109		P	80 - 120
Caffeine	102		P	80 - 120
Carbophenothion	105		P	80 - 120
Carfentrazone Ethyl	93.5		P	80 - 120
Chlorfenapyr	89.4		P	80 - 120
Chlorpyrifos Ethyl	83.0		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Coumaphos	113		P	80 - 120
Cyanazine	91.3		P	80 - 120
Cyprodinil	84.0		P	80 - 120
Demeton	105		P	80 - 120
Diazinon	93.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122612
Included Lab Sample IDs: 2445636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Difenoconazole	105		P	80 - 120
Dimethenamid	85.3		P	80 - 120
Dimethomorph	111		P	80 - 120
Disulfoton	96.3		P	80 - 120
Dithiopyr	97.0		P	80 - 120
EPTC	109		P	80 - 120
Ethion	93.0		P	80 - 120
Ethoprop	94.4		P	80 - 120
Etridiazole	97.2		P	80 - 120
Fenamiphos	84.7		P	80 - 120
Fenbuconazole	87.8		P	80 - 120
Fipronil	87.9		P	80 - 120
Fipronil Desulfinyl	83.2		P	80 - 120
Fipronil Sulfide	109		P	80 - 120
Fipronil Sulfone	103		P	80 - 120
Fluazifop-P-butyl	111		P	80 - 120
Fludioxonil	97.2		P	80 - 120
Flumioxazin	118		P	80 - 120
Flutolanil	90.6		P	80 - 120
Fluxapyroxad	104		P	80 - 120
Fonofos	86.2		P	80 - 120
Hexazinone	95.5		P	80 - 120
Imazalil	95.0		P	80 - 120
Iprodione	80.9		P	80 - 120
Loratadine	102		P	80 - 120
Malathion	80.9		P	80 - 120
Metalaxyl	111		P	80 - 120
Metolachlor	94.1		P	80 - 120
Metribuzin	110		P	80 - 120
Mevinphos	104		P	80 - 120
Molinate	98.4		P	80 - 120
Myclobutanil	89.8		P	80 - 120
Naled	96.6		P	80 - 120
Napropamide	94.9		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	93.9		P	80 - 120
Oxyfluorfen	102		P	80 - 120
Parathion Ethyl	94.1		P	80 - 120
Parathion Methyl	94.5		P	80 - 120
Pendimethalin	98.6		P	80 - 120
Phenytoin	85.8		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	60.0*		F	80 - 120
Prometon	107		P	80 - 120
Prometryn	97.3		P	80 - 120
Pronamide	92.1		P	80 - 120
Propanil	100		P	80 - 120
Propargite	94.9		P	80 - 120
Propiconazole	95.0		P	80 - 120
Pyraflufen Ethyl	118		P	80 - 120
Pyridaben	97.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A122612
Included Lab Sample IDs: 2445636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyriproxyfen	93.1		P	80 - 120
Simazine	101		P	80 - 120
Stirophos	112		P	80 - 120
Sulfentrazone	98.4		P	80 - 120
Tebuconazole	93.7		P	80 - 120
Terbufos	104		P	80 - 120
Terbuthylazine	86.4		P	80 - 120
Thiobencarb	91.6		P	80 - 120
Triadimefon	105		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					1.49	
EPA 180.1 Rev. 2.0	Turbidity	104					2.30	
EPA 200.7 Rev. 4.4	Calcium	104	104	103				2.01
	Iron	106	106	106	101			0.173
	Magnesium	103	102	102				1.42
	Potassium	88.5	89.9	88.0	86.1			1.75
	Sodium	109	109	109	104			0.0215
	Strontium	103	103	104	99.1			0.263
	Tin	102	106	104	101			1.89
	Titanium	100	101	101	98.2			0.225
	Vanadium	103	103	103	101			0.0740
	Zinc	102	102	101	99.5			1.32
EPA 200.8 Rev. 5.4	Aluminum	99.3	99.5	100				0.590
	Antimony	96.0	99.8	99.0	96.2			0.833
	Arsenic	98.6	101	99.0	97.8			1.70
	Barium	101	102	102	99.2			0.358
	Beryllium	94.9	94.8	94.8	93.8			0.0294
	Boron	102	101	103	99.1			1.16
	Cadmium	97.6	102	99.2	96.1			2.52
	Chromium	101	102	102	99.4			0.154
	Cobalt	97.2	95.7	95.0	95.5			0.647
	Copper	97.4	95.8	94.6	96.4			1.24
	Lead	92.3	92.2	92.2	91.6			0.0317
	Manganese	99.9	101	100	97.5			0.172
	Molybdenum	97.0	100	98.3	96.5			1.59
	Nickel	98.5	95.9	95.5	95.7			0.434
	Selenium	98.6	99.1	98.5	86.0			0.637
	Silver	104	106	104	101			1.52
	Thallium	98.9	99.9	101	101			1.24
EPA 300.0 Rev. 2.1	Chloride	99.8	100	105			0.435	
	Sulfate	100	100	104			6.33	
EPA 350.1 Rev. 2.0	Ammonia-N	99.6	98.8	102				3.25
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	102	109				4.98
EPA 353.2 Rev. 2.0	NO2NO3-N	97.0	94.7	95.7				1.02
EPA 365.1 Rev. 2.0	Total-P	103	104	103				0.634
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.0	97.5	98.4				0.856
EPA 8270E	2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328)	73.6	56.1	61.8				9.58
	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	20.1	74.6	72.8				2.38
	Acetochlor	68.0	88.0	83.6				5.14
	Alachlor	81.1	76.0	101				27.8
	Ametryn	111	98.0	75.3				26.1
	Atrazine	118	108	104				4.01
	Atrazine Desethyl	107	74.4	81.8				9.58
	Avobenzone	108	92.2	103				11.5
	Azinphos Methyl	53.8	148	174				15.7
	Azoxystrobin	85.3	87.1	96.6				9.87
	Bromacil	93.0	80.1	59.1				30.2
	Butylate	59.7	70.7	74.8				5.57
	Caffeine	146	110	118				6.56
	Carbophenothion	118	66.3	69.7				5.03
	Carfentrazone Ethyl	95.7	69.4	74.7				7.34

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorfenapyr	75.2	77.2	61.7		22.4
	Chlorpyrifos Ethyl	108	72.2	60.9		16.9
	Chlorpyrifos Methyl	99.6	84.4	70.8		17.5
	Coumaphos	113	74.8	73.8		1.33
	Cyanazine	88.9	102	93.6		8.52
	Cyprodinil	89.0	78.3	83.6		6.62
	Dechlorane 602	57.5	40.1	41.4		3.13
	Dechlorane 603	82.3	76.0	80.1		5.31
	Dechlorane Plus	75.2	71.9	65.2		9.80
	Demeton	89.3	98.5	119		19.0
	Diazinon	98.3	88.4	89.4		1.13
	Difenoconazole	64.5	145	123		16.6
	Dimethenamid	83.5	85.8	87.0		1.35
	Dimethomorph	150	199	172		14.9
	Disulfoton	80.3	112	83.9		28.5
	Dithiopyr	91.2	84.5	66.4		24.0
	EPTC	56.0	59.6	51.7		14.3
	Ethion	63.8	62.4	58.7		6.22
	Ethoprop	93.4	102	101		1.52
	Etridiazole	66.7	79.3	84.9		6.85
	Fenamiphos	112	74.4	53.0		28.9
	Fenbuconazole	53.1	74.9	84.9		12.4
	Fipronil	66.2	69.9	51.4		30.5
	Fipronil Desulfinyl	73.5	58.8	46.4		23.5
	Fipronil Sulfide	65.7	59.1	45.2		26.7
	Fipronil Sulfone	90.7	141	80.3		54.8
	Fluazifop-P-butyl	95.4	72.1	57.8		22.0
	Fludioxonil	82.5	86.6	64.8		28.8
	Flumioxazin	56.5	154	140		9.52
	Flutolanil	71.9	71.2	62.0		13.1
	Fluxapyroxad	92.6	137	93.3		37.9
	Fonofos	87.8	90.8	69.9		25.9
	Hexabromobenzene	71.2	88.5	93.7		5.77
	Hexazinone	108	104	99.1		5.26
	Imazalil	115	58.0	43.0		29.7
	Iprodione	110	89.4	73.3		19.9
	Loratadine	147	64.0	66.9		4.52
	Malathion	125	125	99.5		22.8
	Metalaxyl	93.0	93.2	112		18.0
	Metolachlor	103	91.5	68.9		23.0
	Metribuzin	12.8	51.2	81.5		45.6
	Mevinphos	102	96.2	94.8		1.45
	Molinate	72.5	65.9	83.8		24.0
	Myclobutanil	76.9	103	94.5		8.37
	Naled	51.4	55.4	62.4		12.0
	Napropamide	73.1	69.8	72.1		3.29
	Norflurazon	81.3	70.9	64.9		8.87
	Octinoxate	113	101	101		0.192
	Oxadiazon	77.0	65.8	53.5		20.6
	Oxybenzone	117	103	109		5.04
	Oxyfluorfen	99.8	183	117		44.2
	Parathion Ethyl	109	115	114		0.972
	Parathion Methyl	133	107	91.4		15.2
	PBB-153	31.3	72.6	86.6		17.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	PBDE-47	79.5	62.6	59.3			5.40
	PBDE-99	51.6	55.1	58.8			6.46
	Pendimethalin	133	113	109			3.42
	Pentabromotoluene	85.3	85.6	84.2			1.68
	Phenytol	55.8	42.0	44.6			6.16
	Phorate	104	134	131			1.92
	Prodiamine	54.1	65.7	62.1			5.67
	Prometon	101	145	134			7.63
	Prometryn	92.5	91.9	84.3			8.65
	Pronamide	106	124	105			16.5
	Propanil	116	99.8	99.2			0.683
	Propargite	87.0	93.6	80.6			14.9
	Propiconazole	63.7	73.4	58.7			22.3
	Pyraflufen Ethyl	88.3	47.1	46.8			0.406
	Pyridaben	90.7	146	98.1			39.3
	Pyriproxyfen	56.0	79.9	76.0			4.99
	Simazine	108	112	104			7.75
	Stirophos	91.6	58.9	55.5			5.97
	Sulfentrazone	110	46.2	41.9			9.84
	Tebuconazole	68.0	53.1	42.3			18.0
	Terbufos	98.5	116	83.7			32.4
	Terbutylazine	70.6	111	89.0			22.1
	Tetradecachloro-m-terphenyl	132	143	137			4.24
	Thiobencarb	93.5	96.2	82.8			15.0
	Tri-o-cresyl Phosphate	98.3	94.3	96.6			2.38
	Triadimefon	125	66.2	61.7			7.06
	Tris(1-chloro-2-propyl) phosphate (TCPP)	127	122	118			3.66
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	99.1	91.9	84.5			8.36
	Tris(2-chloroethyl) phosphate (TCEP)	107	97.5	112			13.5
EPA 8321B	2,4-D	65.2	74.4	77.7			4.27
	2,4,5-T	80.5	90.4	86.1			4.88
	Acesulfame K	107	112	111			0.251
	Acetaminophen	88.6	94.8	94.4			0.454
	Acetamiprid	73.6	55.9	56.6			1.14
	Afidopyropen	73.8	64.5	66.7			3.33
	AMPA	123	186	190			2.06
	Bentazon	105	133	135			1.55
	Benzovindiflupyr	73.8	62.1	66.4			6.76
	Carbamazepine	75.9	60.2	62.5			3.63
	Clothianidin	83.4	79.6	81.7			2.70
	Dinotefuran	93.6	78.3	80.2			2.33
	Diuron	68.1	48.2	49.5			2.55
	Endothall	87.3	83.0	78.3			5.81
	Fenuron	88.5	51.4	53.3			3.67
	Fluridone	74.0	59.0	59.4			0.534
	Glufosinate	95.4	89.4	84.6			5.53
	Glyphosate	88.2	75.9	74.8			1.42
	Hydrocodone	90.2	68.0	69.8			2.68
	Ibuprofen	74.8	66.6	77.3			14.9
	Imazapyr	72.6	88.1	88.4			0.247
	Imidacloprid	78.4	97.3	103			5.72

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Linuron	61.4	51.7	57.2			10.0
	Mandestrobin	79.1	75.7	73.1			3.44
	MCCP	77.8	88.5	91.2			3.00
	Naproxen	44.8	50.8	45.4			11.3
	Primidone	78.2	70.4	75.9			7.55
	Pyraclostrobin	69.6	69.7	71.9			3.01
	Silvex	59.8	74.6	75.7			1.52
	Sucralose	102	105	98.2			6.30
	Thiamethoxam	84.0	84.6	88.7			4.80
	Tolfenpyrad	49.3	58.1	58.8			1.21
	Triclopyr	64.8	78.7	72.0			8.92
SM 2320 B-2011	Total Alkalinity	97.1				1.03	
SM 2540 C-2015	TDS	93.2				5.22	
SM 2540 D-2015	TSS	95.2					
SM 4500-F- C-2011	Fluoride	99.7					0.947
SM 5310 B-2011	Organic Carbon	95.3	97.2	99.6			1.74

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2445623
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2445623
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2445632
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2445632
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2445623
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2445623
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2445624
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2445624
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2445624
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2445624
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2445625
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2445636
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2445636
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2445628
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2445623
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2445632
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2445623
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2445623
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2445623
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2445624

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	10/18/2023			10/18/2023 16:43	Chandler E Cox	2445623
EPA 180.1 Rev. 2.0	10/18/2023			10/18/2023 13:54	Samantha L Bates	2445623
EPA 200.7 Rev. 4.4	10/18/2023	10/19/2023 11:10	George D Taylor	10/20/2023 20:59	Samatha Luckman	2445632
EPA 200.8 Rev. 5.4	10/18/2023	10/19/2023 11:10	George D Taylor	10/21/2023 05:03	Conrad Hartmann	2445632
EPA 300.0 Rev. 2.1	10/18/2023			11/01/2023 20:58	James L Waggeberby	2445623
EPA 350.1 Rev. 2.0	10/18/2023			10/20/2023 13:40	Ping Hua	2445624
EPA 351.2 Rev. 2.0	10/18/2023	10/20/2023 15:38	Simonne.V. Calhoun	10/24/2023 11:46	Samantha L Bates	2445624
EPA 353.2 Rev. 2.0	10/18/2023			10/20/2023 15:28	Fadila Guebre	2445624
EPA 365.1 Rev. 2.0	10/18/2023	10/19/2023 12:30	Simonne.V. Calhoun	10/20/2023 10:27	James L Waggeberby	2445624
EPA 365.1 Rev. 2.0 dissolved	10/18/2023			10/18/2023 13:41	Elise M. Gillis	2445625
EPA 8270E	10/18/2023	10/20/2023 08:00	Fe-Val Siddell	10/23/2023 17:55	Vandana T. Nagar	2445636
	10/18/2023	10/20/2023 08:00	Fe-Val Siddell	10/24/2023 20:40	Arthur Maknenko	2445636
EPA 8321B	10/18/2023	10/18/2023 13:00	Hoor Shaik	10/21/2023 03:36	Juyoung Kim	2445628
	10/18/2023	10/18/2023 14:00	Tae K Lee	10/19/2023 03:23	Hana Lee	2445628
	10/18/2023	10/18/2023 14:00	Tae K Lee	10/23/2023 19:01	Tae K Lee	2445628
SM 2320 B-2011	10/18/2023			10/20/2023 02:35	Dale L. Simmons	2445623
SM 2340 B-2011	10/18/2023			10/20/2023 20:59	Samatha Luckman	2445632
SM 2540 C-2015	10/18/2023			10/20/2023 16:03	Yijie Li	2445623
SM 2540 D-2015	10/18/2023			10/20/2023 16:03	Yijie Li	2445623
SM 4500-F- C-2011	10/18/2023			10/20/2023 02:35	Dale L. Simmons	2445623
SM 5310 B-2011	10/18/2023			10/23/2023 19:07	Elise M. Gillis	2445624