

Chemical Analysis Report

NW-DIST-2022-12-27-01

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

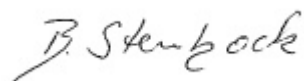
Event Description: **SCI**
Request ID: **RQ-2022-12-19-18**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
Suite 208
Pensacola, FL 32502-5794
Attn: Myranda Butler

For additional information please contact
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 23-JAN-2023 12:16



NON-CONFORMANCE REPORT INCLUDED

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: Anderson Mill Creek

Collection Date/Time: 12/21/2022 12:00

Field ID: G3NW0224

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes		
2377419	EPA 200.7 Rev. 4.4	Calcium	0.74		mg/L	P424053			
		Iron	550		ug/L	P424053			
		Magnesium	0.63		mg/L	P424053			
		Potassium	0.37	I	mg/L	P424053			
		Sodium	1.8	I	mg/L	P424053			
		Strontium	5.5	I	ug/L	P424053			
		Tin	3.0	U	ug/L	P424053			
		Titanium	7.8		ug/L	P424053			
		Vanadium	2.0	U	ug/L	P424053			
		Zinc	5.0	U	ug/L	P424053			
	EPA 200.8 Rev. 5.4	Aluminum	370		ug/L	P424053			
		Antimony	0.050	U	ug/L	P424053			
		Arsenic	0.29		ug/L	P424053			
		Barium	14.1		ug/L	P424053			
		Beryllium	0.039	I	ug/L	P424053			
		Boron	7.5	I	ug/L	P424053			
		Cadmium	0.026	I	ug/L	P424053			
		Chromium	0.41	I	ug/L	P424053			
		Cobalt	0.325		ug/L	P424053			
		Copper	0.43	I	ug/L	P424053			
		Lead	0.35	I	ug/L	P424053			
		Manganese	21.1		ug/L	P424053			
		Molybdenum	0.15	U	ug/L	P424053			
		Nickel	0.50	U	ug/L	P424053			
		Selenium	0.20	U	ug/L	P424053			
		Silver	0.010	U	ug/L	P424053			
		Thallium	0.10	U	ug/L	P424053			
		2377438	SM 2340 B-2011	Hardness	4.4		mg/L	P424053	
			DEP SOP: NU-094-1	Color (true)	56	YQ	PCU	P423998	
			EPA 180.1 Rev. 2.0	Turbidity	8.4	YQ	NTU	P423995	
			EPA 300.0 Rev. 2.1	Chloride	4.0		mg Cl/L	P424207	
				Sulfate	0.59	Y	mg SO4/L	P424210	
	SM 2320 B-2011		Total Alkalinity	0.70	IY	mg CaCO3/L	P424085		
SM 2540 C-2015	TDS		30	YQ	mg/L	P424308			
SM 2540 D-2015	TSS		20	YQ	mg/L	P424147			
SM 4500-F- C-2011	Fluoride		0.025	U	mg F/L	P424515			
2377439	EPA 350.1 Rev. 2.0		Ammonia-N	0.008	Y	mg N/L	P424559		
	EPA 351.2 Rev. 2.0		Kjeldahl Nitrogen	0.23	Y	mg N/L	P424063		
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.031	Y	mg N/L	P424288			
	EPA 365.1 Rev. 2.0	Total-P	0.017	Y	mg P/L	P424137			
	SM 5310 B-2011	Organic Carbon	5.8	Y	mg C/L	P424183			
2377440	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	UYQ	mg P/L	P423997			
2377441	EPA 8321B	2,4-D	0.0020	UY	ug/L	P423955			

Field ID: G3NW0224

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2377441	EPA 8321B	Acesulfame K	0.10	UYQ	ug/L	P423967	CCV
		2,4,5-T	0.0040	UY	ug/L	P423955	
		AMPA	0.10	UYQ	ug/L	P423967	
		Acetaminophen	0.0080	UY	ug/L	P423955	
		Acetamiprid	0.0020	UY	ug/L	P423955	
		Endothall	0.25	UYQJ	ug/L	P423967	
		Glufosinate	0.10	UYQ	ug/L	P423967	
		Glyphosate	0.10	UYQ	ug/L	P423967	
		Afidopyropen	0.0020	UY	ug/L	P423955	
		Bentazon	8.0E-04	UY	ug/L	P423955	
		Sucralose	0.020	IYQ	ug/L	P423967	
		Benzovindiflupyr	0.0020	UY	ug/L	P423955	
		Carbamazepine	8.0E-04	UY	ug/L	P423955	
		Clothianidin	0.0020	UY	ug/L	P423955	
		Dinotefuran	0.0020	UY	ug/L	P423955	
		Diuron	0.0020	UY	ug/L	P423955	
		Fenuron	0.032	UY	ug/L	P423955	
		Fluridone	8.0E-04	UY	ug/L	P423955	
		Imazapyr	0.0040	UY	ug/L	P423955	
		Hydrocodone	0.0020	UY	ug/L	P423955	
		Ibuprofen	0.20	UY	ug/L	P423955	
		Imidacloprid	0.0020	UY	ug/L	P423955	
		Linuron	0.0040	UY	ug/L	P423955	
		Mandestrobin	0.0020	UY	ug/L	P423955	
		MCPP	0.0040	UY	ug/L	P423955	
		Naproxen	0.0080	UY	ug/L	P423955	
		Primidone	0.0040	UY	ug/L	P423955	
		Pyraclostrobin	0.0020	UY	ug/L	P423955	
		Silvex	0.0040	UY	ug/L	P423955	
		Thiamethoxam	0.0020	UY	ug/L	P423955	
		Tolfenpyrad	0.0020	UY	ug/L	P423955	
		Triclopyr	0.0040	UY	ug/L	P423955	
2377442	EPA 8270E	Oxybenzone**	10	UYQ	ng/L	P424059	
		Acetochlor	0.25	UYQ	ng/L	P424059	
		Octinoxate**	20	UYQ	ng/L	P424059	
		Alachlor	0.25	UYQ	ng/L	P424059	
		Avobenzone**	100	UYQ	ng/L	P424059	
		Ametryn	0.61	UYQ	ng/L	P424059	
		Atrazine	0.25	UYQ	ng/L	P424059	
		PBDE-47**	4.0	UYQ	ng/L	P424059	
		Atrazine Desethyl	1.5	UYQ	ng/L	P424059	
		PBDE-99**	5.1	UYQ	ng/L	P424059	
		Azinphos Methyl	2.0	UYQ	ng/L	P424059	
		Tri-o-cresyl Phosphate**	6.1	UYQ	ng/L	P424059	
		Azoxystrobin	0.51	UYQ	ng/L	P424059	

Field ID: G3NW0224

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2377442	EPA 8270E	Bromacil	0.51	UYQ	ng/L	P424059	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	UYQ	ng/L	P424059	
		Butylate	0.40	UYQ	ng/L	P424059	
		Dechlorane Plus**	30	UYQ	ng/L	P424059	
		Caffeine**	7.6	UYQ	ng/L	P424059	
		Carbophenothion	0.20	UYQ	ng/L	P424059	
		Carfentrazone Ethyl	0.10	UYQ	ng/L	P424059	
		Chlorfenapyr	0.18	UYQ	ng/L	P424059	
		Chlorpyrifos Ethyl	0.25	UYQ	ng/L	P424059	
		Chlorpyrifos Methyl	0.051	UYQ	ng/L	P424059	
		Coumaphos	0.51	UYQ	ng/L	P424059	
		Cyanazine	3.3	UYQ	ng/L	P424059	
		Cyprodinil	0.10	UYQ	ng/L	P424059	
		Demeton	1.5	UYQ	ng/L	P424059	
		Diazinon	0.13	UYQ	ng/L	P424059	
		Difenoconazole	0.61	UYQ	ng/L	P424059	
		Dimethenamid	0.10	UYQ	ng/L	P424059	
		Dimethomorph	0.18	UYQ	ng/L	P424059	
		Disulfoton	0.51	UYQ	ng/L	P424059	
		Dithiopyr	0.63	UYQ	ng/L	P424059	
		EPTC	1.3	UYQ	ng/L	P424059	
		Ethion	0.15	UYQ	ng/L	P424059	
		Ethoprop	0.10	UYQ	ng/L	P424059	
		Etridiazole	0.15	UYQ	ng/L	P424059	
		Fenamiphos	0.51	UYQ	ng/L	P424059	
		Fenbuconazole	0.13	UYQ	ng/L	P424059	
		Fipronil	0.25	UYQ	ng/L	P424059	
		Fipronil Desulfinyl**	0.13	UYQ	ng/L	P424059	
		Fipronil Sulfide	0.15	UYQ	ng/L	P424059	
		Fipronil Sulfone	0.15	UYQ	ng/L	P424059	
		Fluazifop-P-butyl	0.10	UYQ	ng/L	P424059	
		Fludioxonil	0.13	UYQ	ng/L	P424059	
		Flumioxazin	4.5	UYQ	ng/L	P424059	
		Flutolanil	0.10	UYQ	ng/L	P424059	
		Fluxapyroxad	0.10	UYQ	ng/L	P424059	
		Fonofos	0.20	UYQ	ng/L	P424059	
		Hexazinone	0.51	UYQ	ng/L	P424059	
		Imazalil	0.76	UYQ	ng/L	P424059	
		Iprodione	0.61	UYQ	ng/L	P424059	
		Loratadine**	0.35	UYQ	ng/L	P424059	
		Malathion	0.35	UYQ	ng/L	P424059	
		Metalaxyl	0.76	UYQ	ng/L	P424059	
		Metolachlor	0.35	UYQ	ng/L	P424059	
		Metribuzin	1.5	UYQ	ng/L	P424059	

Field ID: G3NW0224

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2377442	EPA 8270E	Mevinphos	1.1	UYQ	ng/L	P424059	
		Molinate	0.30	UYQ	ng/L	P424059	
		Myclobutanil	0.25	UYQ	ng/L	P424059	
		Naled	1.5	UYQ	ng/L	P424059	
		Napropamide	0.40	UYQ	ng/L	P424059	
		Norflurazon	0.51	UYQ	ng/L	P424059	
		Oxadiazon	0.30	UYQ	ng/L	P424059	
		Oxyfluorfen	0.15	UYQ	ng/L	P424059	
		Parathion Ethyl	0.25	UYQ	ng/L	P424059	
		Parathion Methyl	0.56	UYQ	ng/L	P424059	
		Pendimethalin	1.0	UYQJ	ng/L	P424059	LCS, MS
		Phenytain**	3.5	UYQ	ng/L	P424059	
		Phorate	0.53	UYQ	ng/L	P424059	
		Prodiamine	0.18	UYQ	ng/L	P424059	
		Prometon	0.91	UYQ	ng/L	P424059	
		Prometryn	0.20	UYQ	ng/L	P424059	
		Pronamide	0.15	UYQ	ng/L	P424059	
		Propanil	0.13	UYQ	ng/L	P424059	
		Propargite	1.5	UYQ	ng/L	P424059	
		Propiconazole	0.51	UYQ	ng/L	P424059	
		Pyraflufen Ethyl	0.25	UYQ	ng/L	P424059	
		Pyridaben	0.45	UYQ	ng/L	P424059	
		Pyriproxyfen	0.13	UYQ	ng/L	P424059	
		Simazine	0.51	UYQ	ng/L	P424059	
		Stirophos	0.13	UYQ	ng/L	P424059	
		Sulfentrazone	0.51	UYQ	ng/L	P424059	
		Tebuconazole	0.51	UYQ	ng/L	P424059	
		Terbufos	0.10	UYQ	ng/L	P424059	MS
		Terbuthylazine	0.43	UYQ	ng/L	P424059	
		Thiobencarb	0.61	UYQ	ng/L	P424059	
		Triadimefon	0.25	UYQ	ng/L	P424059	

Field ID: G3NW0224

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:

DEP SOP: NU-094-1: Sample stored outside of the acceptable temperature range. Please see NCR. The sample expired prior to receipt.

EPA 180.1 Rev. 2.0: The sample expired prior to receipt. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 300.0 Rev. 2.1: Sulfate: Sample stored outside of the acceptable temperature range. Please see NCR.

SM 2320 B-2011: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 C-2015: Sample received outside of the acceptable temperature range. Please see NCR. Sample expired upon login to LIMS.

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. Sample received outside of the acceptable temperature range. Please see NCR. Sample expired upon login to LIMS.

EPA 350.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 351.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 353.2 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0: Total-P: Sample received outside of the acceptable temperature range. Please see NCR.

SM 5310 B-2011: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: The sample expired prior to receipt. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample. Y - Sample was received with inadequate sample preservation; see NCR report.

EPA 8321B: Y - Sample was received with inadequate sample preservation; see NCR report. Q - Sample was analyzed beyond holding time. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: The sample was prepared out of hold time because the HVAC system in the laboratory was down resulting in excessively cold temperatures. Y - Due to improper preservation; see NCR report.

EPA 8270E: MS accuracy for prometon and simazine not assessed due to high content of these parameters in the sample spiked. The sample was prepared out of hold time because the HVAC system in the laboratory was down resulting in excessively cold temperatures. Refer to the Lab Analysis Report for an explanation of QC Codes. Y - Due to improper preservation; see NCR report.

Non-Conformance Report

NCR ID: 9686

<u>Event(s)</u>	<u>Job(s)</u>	<u>Sample(s)</u>	<u>Test(s)</u>
NW-DIST-2022-12-27-01	TLH-2022-12-28-01	2377438	
NW-DIST-2022-12-27-01	TLH-2022-12-28-01	2377439	
NW-DIST-2022-12-27-01	TLH-2022-12-28-01	2377440	
NW-DIST-2022-12-27-01	TLH-2022-12-28-02	2377441	
NW-DIST-2022-12-27-01	TLH-2022-12-28-03	2377442	

NCR Type: SHIPPING/RECEIVING

NCR Category: Samples arrived late

Observation: Samples arrived late, samples received outside the acceptable temperature range.

Resolution: Samples will be qualified as appropriate.
Customer contacted, email correspondence attached to sample submittal forms.

Authorized by/Date: Kyle Klug 1/5/2023

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P423998

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423995

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P424053

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: P424053

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: P424207

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: P424210

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424559

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P424063

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P424288

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P424137

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423997

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

Reference Method: EPA 8270E
Batch ID: P424059

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P424059

Component	Result	Code	Units
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P424059

Component	Result	Code	Units
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.75	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P424059

Component	Result	Code	Units
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatone	0.18	U	ng/L
Prodiatone	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P424059

Component	Result	Code	Units
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8321B

Batch ID: P423955

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
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	0.20	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	0.0040	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: EPA 8321B

Batch ID: P423967

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

Reference Method: SM 2320 B-2011

Batch ID: P424085

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P424085

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2015
Batch ID: P424308

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P424147

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P424515

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P424183

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: P423998

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	90.9		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423995

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P424053

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	98.7		P	85 - 115
Iron	102		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	100		P	85 - 115
Sodium	105		P	85 - 115
Strontium	103		P	85 - 115
Tin	95.9		P	85 - 115
Titanium	103		P	85 - 115
Vanadium	101		P	85 - 115
Zinc	89.4		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P424053

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.7		P	85 - 115
Antimony	99.1		P	85 - 115
Arsenic	100		P	85 - 115
Barium	101		P	85 - 115
Beryllium	96.9		P	85 - 115
Boron	98.2		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	96.7		P	85 - 115
Cobalt	99.8		P	85 - 115
Copper	99.6		P	85 - 115
Lead	91.6		P	85 - 115
Manganese	96.9		P	85 - 115
Molybdenum	97.3		P	85 - 115
Nickel	101		P	85 - 115
Selenium	101		P	85 - 115
Silver	100		P	85 - 115
Thallium	98.9		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424207

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.3		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424210

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424559

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P424063

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P424288

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	103		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P424137

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423997

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.7		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P424059

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	74.5		P	42 - 162
Acetochlor	97.7		P	69 - 123
Alachlor	92.6		P	65 - 118
Ametryn	107		P	58 - 141
Atrazine	109		P	73 - 118
Atrazine Desethyl	88.6		P	32 - 125
Avobenzone	99.0		P	40 - 203
Azinphos Methyl	117		P	36 - 197
Azoxystrobin	139		P	58 - 226
Bromacil	93.6		P	48 - 120
Butylate	58.9		P	27 - 85.0
Caffeine	94.9		P	40 - 137
Carbophenothion	102		P	54 - 132
Carfentrazone Ethyl	103		P	60 - 142
Chlorfenapyr	96.4		P	53 - 117
Chlorpyrifos Ethyl	100		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P424059

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	110		P	66 - 119
Coumaphos	102		P	11 - 234
Cyanazine	225		P	61 - 248
Cyprodinil	112		P	50 - 147
Dechlorane Plus	71.3		P	47 - 182
Demeton	107		P	30 - 138
Diazinon	112		P	67 - 126
Difenoconazole	81.0		P	38 - 205
Dimethenamid	74.7		P	57 - 111
Dimethomorph	169		P	16 - 212
Disulfoton	121		P	46 - 126
Dithiopyr	97.6		P	62 - 115
EPTC	52.9		P	28 - 80.0
Ethion	61.9		P	24 - 122
Ethoprop	112		P	62 - 113
Etridiazole	61.7		P	28 - 92.0
Fenamiphos	95.4		P	57 - 128
Fenbuconazole	110		P	52 - 155
Fipronil	105		P	63 - 130
Fipronil Desulfinyl	106		P	61 - 130
Fipronil Sulfide	89.9		P	56 - 117
Fipronil Sulfone	95.6		P	52 - 118
Fluazifop-P-butyl	103		P	61 - 128
Fludioxonil	90.4		P	59 - 129
Flumioxazin	93.2		P	30 - 250
Flutolanil	97.4		P	53 - 127
Fluxapyroxad	102		P	42 - 132
Fonofos	106		P	61 - 110
Hexazinone	99.2		P	46 - 139
Imazalil	97.2		P	40 - 139
Iprodione	95.1		P	40 - 146
Loratadine	153		P	10 - 224
Malathion	98.3		P	61 - 135
Metaxyl	110		P	58 - 121
Metolachlor	97.2		P	64 - 118
Metribuzin	111		P	45 - 245
Mevinphos	89.8		P	49 - 118
Molinate	73.7		P	42 - 92.0
Myclobutanil	100		P	55 - 127
Naled	106		P	10 - 114
Napropamide	94.3		P	39 - 121
Norflurazon	84.2		P	55 - 129
Octinoxate	82.7		P	26 - 166
Oxadiazon	96.8		P	54 - 115
Oxybenzone	83.4		P	49 - 135
Oxyfluorfen	125		P	64 - 139
Parathion Ethyl	101		P	70 - 111
Parathion Methyl	121		P	76 - 136
PBDE-47	76.2		P	41 - 148
PBDE-99	73.0		P	38 - 147
Pendimethalin	139		F	52 - 118
Phenytol	28.2		P	10 - 162

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P424059

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	98.8		P	40 - 122
Prodiamine	38.9		P	26 - 141
Prometon	76.1		P	54 - 122
Prometryn	92.1		P	61 - 128
Pronamide	96.0		P	72 - 121
Propanil	103		P	45 - 144
Propargite	73.5		P	10 - 199
Propiconazole	100		P	56 - 127
Pyraflufen Ethyl	102		P	56 - 140
Pyridaben	122		P	26 - 211
Pyriproxyfen	95.9		P	33 - 194
Simazine	97.1		P	67 - 121
Stirophos	63.6		P	20 - 142
Sulfentrazone	87.2		P	21 - 144
Tebuconazole	50.6		P	10 - 122
Terbufos	129		P	60 - 129
Terbutylazine	91.8		P	69 - 113
Thiobencarb	79.9		P	51 - 120
Tri-o-cresyl Phosphate	79.3		P	49 - 150
Triadimefon	94.8		P	56 - 114

Reference Method: EPA 8321B
Batch ID: P423955

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	73.9		P	40 - 150
2,4,5-T	60.3		P	40 - 150
Acetaminophen	84.4		P	30 - 150
Acetamiprid	65.8		P	40 - 150
Afidopyropen	70.0		P	30 - 150
Bentazon	87.7		P	30 - 150
Benzovindiflupyr	80.6		P	40 - 150
Carbamazepine	92.0		P	40 - 150
Clothianidin	82.3		P	40 - 150
Dinotefuran	81.0		P	40 - 150
Diuron	92.0		P	40 - 150
Fenuron	90.8		P	40 - 150
Fluridone	83.3		P	40 - 150
Hydrocodone	81.0		P	40 - 150
Ibuprofen	91.6		P	40 - 150
Imazapyr	90.9		P	40 - 150
Imidacloprid	88.7		P	40 - 150
Linuron	79.0		P	40 - 150
Mandestrobin	90.3		P	40 - 150
MCPP	82.9		P	40 - 150
Naproxen	64.1		P	40 - 150
Primidone	88.0		P	40 - 150
Pyraclostrobin	73.5		P	40 - 150
Silvex	63.5		P	40 - 150
Thiamethoxam	84.1		P	40 - 150
Tolfenpyrad	38.6		P	30 - 150
Triclopyr	63.4		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P423967

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	89.3		P	40 - 150
AMPA	100		P	40 - 150
Endothall	147		P	40 - 150
Glufosinate	95.3		P	40 - 150
Glyphosate	105		P	40 - 150
Sucralose	127		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P424085

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.1		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P424308

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

Reference Method: SM 2540 D-2015
Batch ID: P424147

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	96.9		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P424515

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P424183

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P424053

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377419	Calcium	98.7	97.7	P/P	80 - 120
2377419	Iron	101	100	P/P	80 - 120
2377419	Magnesium	103	102	P/P	80 - 120
2377419	Potassium	100	98.3	P/P	80 - 120
2377419	Sodium	102	100	P/P	80 - 120
2377419	Strontium	103	102	P/P	80 - 120
2377419	Tin	96.4	97.3	P/P	80 - 120
2377419	Titanium	90.0	89.2	P/P	80 - 120
2377419	Vanadium	105	104	P/P	80 - 120
2377419	Zinc	93.3	96.5	P/P	80 - 120
2377433	Calcium	95.5		P	80 - 120
2377433	Iron	96.8		P	80 - 120
2377433	Magnesium	95.5		P	80 - 120
2377433	Potassium	96.5		P	80 - 120
2377433	Sodium	97.4		P	80 - 120
2377433	Strontium	98.7		P	80 - 120
2377433	Tin	96.1		P	80 - 120
2377433	Titanium	92.8		P	80 - 120
2377433	Vanadium	100		P	80 - 120
2377433	Zinc	91.6		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P424053

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377419	Aluminum	89.8	95.5	P/P	80 - 120
2377419	Antimony	96.9	96.9	P/P	80 - 120
2377419	Arsenic	101	102	P/P	80 - 120
2377419	Barium	101	102	P/P	80 - 120
2377419	Beryllium	93.9	93.9	P/P	80 - 120
2377419	Boron	97.1	96.9	P/P	80 - 120
2377419	Cadmium	99.0	99.8	P/P	80 - 120
2377419	Chromium	95.8	96.8	P/P	80 - 120
2377419	Cobalt	99.2	101	P/P	80 - 120
2377419	Copper	100	102	P/P	80 - 120
2377419	Lead	92.0	93.3	P/P	80 - 120
2377419	Manganese	96.4	99.2	P/P	80 - 120
2377419	Molybdenum	96.9	97.4	P/P	80 - 120
2377419	Nickel	102	103	P/P	80 - 120
2377419	Selenium	101	102	P/P	80 - 120
2377419	Silver	99.2	100	P/P	80 - 120
2377419	Thallium	100	101	P/P	80 - 120
2377433	Aluminum	100		P	80 - 120
2377433	Antimony	101		P	80 - 120
2377433	Arsenic	101		P	80 - 120
2377433	Barium	100		P	80 - 120
2377433	Beryllium	96.4		P	80 - 120
2377433	Boron	99.2		P	80 - 120
2377433	Cadmium	103		P	80 - 120
2377433	Chromium	98.2		P	80 - 120
2377433	Cobalt	98.6		P	80 - 120
2377433	Copper	99.1		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P424053

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377433	Lead	93.0		P	80 - 120
2377433	Manganese	98.6		P	80 - 120
2377433	Molybdenum	99.5		P	80 - 120
2377433	Nickel	99.5		P	80 - 120
2377433	Selenium	103		P	80 - 120
2377433	Silver	100		P	80 - 120
2377433	Thallium	102		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P424207

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377368	Chloride	96.2		P	90 - 110
2377545	Chloride	97.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P424210

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377368	Sulfate	100		P	90 - 110
2377545	Sulfate	99.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P424559

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2378478	Ammonia-N	100	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P424063

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377458	Kjeldahl Nitrogen	96.2	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P424288

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377429	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P424137

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377531	Total-P	108	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P423997

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377447	O-Phosphate-P	103	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P424059

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377472	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	68.5	52.4	P/P	26 - 165
2377472	Acetochlor	90.1	94.5	P/P	67 - 124
2377472	Alachlor	90.2	85.5	P/P	60 - 120
2377472	Ametryn	109	100	P/P	54 - 216
2377472	Atrazine	113	117	P/P	66 - 128
2377472	Atrazine Desethyl	84.5	78.9	P/P	15 - 122
2377472	Avobenzone	91.9	73.2	P/P	37 - 178
2377472	Azinphos Methyl	110	107	P/P	40 - 292
2377472	Azoxystrobin	124	139	P/P	35 - 220
2377472	Bromacil	100	88.8	P/P	45 - 127
2377472	Butylate	58.5	56.5	P/P	20 - 83.0
2377472	Caffeine	95.4	81.6	P/P	10 - 194
2377472	Carbophenothion	102	101	P/P	57 - 127
2377472	Carfentrazone Ethyl	101	100	P/P	51 - 141
2377472	Chlorfenapyr	92.7	89.9	P/P	46 - 111
2377472	Chlorpyrifos Ethyl	95.2	87.0	P/P	52 - 120
2377472	Chlorpyrifos Methyl	106	107	P/P	63 - 119
2377472	Coumaphos	91.7	93.9	P/P	10 - 228
2377472	Cyanazine	226	220	P/P	59 - 241
2377472	Cyprodinil	105	105	P/P	47 - 146
2377472	Dechlorane Plus	71.8	55.5	P/P	50 - 150
2377472	Demeton	97.5	110	P/P	40 - 136
2377472	Diazinon	109	113	P/P	69 - 132
2377472	Difenoconazole	139	127	P/P	57 - 258
2377472	Dimethenamid	76.2	75.0	P/P	54 - 110
2377472	Dimethomorph	173	171	P/P	28 - 210
2377472	Disulfoton	128	131	P/P	43 - 133
2377472	Dithiopyr	92.0	96.2	P/P	39 - 116
2377472	EPTC	45.1	54.3	P/P	20 - 78.0
2377472	Ethion	75.4	52.5	P/P	17 - 119
2377472	Ethoprop	115	114	P/P	66 - 120
2377472	Etridiazole	60.5	66.2	P/P	28 - 96.0
2377472	Fenamiphos	90.2	91.6	P/P	41 - 126
2377472	Fenbuconazole	103	103	P/P	42 - 169
2377472	Fipronil	117	110	P/P	61 - 132
2377472	Fipronil Desulfinyl	112	104	P/P	56 - 132
2377472	Fipronil Sulfide	94.4	92.4	P/P	48 - 119
2377472	Fipronil Sulfone	104	91.4	P/P	42 - 131
2377472	Fluazifop-P-butyl	99.0	98.8	P/P	53 - 131
2377472	Fludioxonil	96.8	85.2	P/P	56 - 127
2377472	Flumioxazin	152	143	P/P	19 - 300
2377472	Flutolanil	99.0	93.2	P/P	41 - 127
2377472	Fluxapyroxad	99.6	89.0	P/P	42 - 172
2377472	Fonofos	100	108	P/P	59 - 113
2377472	Hexazinone	106	97.4	P/P	66 - 122
2377472	Imazalil	98.6	103	P/P	21 - 283
2377472	Iprodione	91.8	84.5	P/P	43 - 150
2377472	Loratadine	167	162	P/P	23 - 201
2377472	Malathion	93.7	86.7	P/P	58 - 136
2377472	Metalaxyl	119	111	P/P	55 - 120
2377472	Metolachlor	96.7	98.0	P/P	57 - 121
2377472	Metribuzin	114	125	P/P	58 - 294

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P424059

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377472	Mevinphos	102	96.4	P/P	50 - 126
2377472	Molinate	75.3	81.1	P/P	42 - 93.0
2377472	Myclobutanil	98.2	94.3	P/P	55 - 125
2377472	Naled	105	133	P/P	18 - 200
2377472	Napropamide	106	95.8	P/P	39 - 110
2377472	Norflurazon	82.6	79.7	P/P	48 - 128
2377472	Octinoxate	56.5	48.0	P/P	21 - 159
2377472	Oxadiazon	97.2	97.0	P/P	43 - 112
2377472	Oxybenzone	54.0	55.2	P/P	41 - 142
2377472	Oxyfluorfen	137	125	P/P	64 - 153
2377472	Parathion Ethyl	98.8	105	P/P	69 - 114
2377472	Parathion Methyl	127	126	P/P	79 - 139
2377472	PBDE-47	63.4	48.0	P/P	27 - 144
2377472	PBDE-99	63.0	46.8	P/P	18 - 150
2377472	Pendimethalin	135	140	P/F	50 - 139
2377472	Phenytoin	39.7	31.0	P/P	10 - 146
2377472	Phorate	106	105	P/P	54 - 161
2377472	Prodiamine	42.0	43.4	P/P	30 - 161
2377472	Prometryn	86.9	93.3	P/P	45 - 137
2377472	Pronamide	84.1	83.0	P/P	65 - 133
2377472	Propanil	113	103	P/P	49 - 142
2377472	Propargite	82.7	66.6	P/P	10 - 203
2377472	Propiconazole	91.8	98.2	P/P	38 - 146
2377472	Pyraflufen Ethyl	98.1	94.7	P/P	34 - 153
2377472	Pyridaben	129	131	P/P	12 - 192
2377472	Pyriproxyfen	101	99.6	P/P	33 - 180
2377472	Stirophos	79.8	66.9	P/P	10 - 128
2377472	Sulfentrazone	91.9	84.2	P/P	53 - 186
2377472	Tebuconazole	60.3	52.0	P/P	10 - 133
2377472	Terbufos	134	149	P/F	65 - 139
2377472	Terbuthylazine	86.9	93.8	P/P	66 - 117
2377472	Thiobencarb	77.0	79.5	P/P	51 - 119
2377472	Tri-o-cresyl Phosphate	63.5	54.1	P/P	31 - 144
2377472	Triadimefon	84.3	83.5	P/P	48 - 119

Reference Method: EPA 8321B

Batch ID: P423955

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377289	2,4-D	75.5	80.6	P/P	40 - 150
2377289	2,4,5-T	72.5	82.1	P/P	40 - 150
2377289	Acetaminophen	86.8	86.7	P/P	30 - 150
2377289	Acetamiprid	57.3	61.9	P/P	40 - 150
2377289	Afidopyropen	63.5	69.3	P/P	30 - 150
2377289	Benzovindiflupyr	74.6	76.6	P/P	40 - 150
2377289	Carbamazepine	66.9	64.4	P/P	40 - 150
2377289	Clothianidin	84.9	80.9	P/P	40 - 150
2377289	Dinotefuran	90.4	89.5	P/P	40 - 150
2377289	Diuron	54.5	53.8	P/P	40 - 150
2377289	Fenuron	85.3	86.3	P/P	40 - 150
2377289	Hydrocodone	71.4	77.5	P/P	40 - 150
2377289	Ibuprofen	65.5	64.1	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P423955

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377289	Imidacloprid	114	120	P/P	40 - 150
2377289	Linuron	66.3	58.8	P/P	40 - 150
2377289	Mandestrobin	76.6	76.6	P/P	40 - 150
2377289	MCPP	86.4	88.8	P/P	40 - 150
2377289	Naproxen	74.9	65.0	P/P	40 - 150
2377289	Primidone	90.4	92.6	P/P	40 - 150
2377289	Pyraclostrobin	70.2	73.1	P/P	40 - 150
2377289	Silvex	84.1	85.4	P/P	40 - 150
2377289	Thiamethoxam	95.2	97.2	P/P	40 - 150
2377289	Tolfenpyrad	50.5	52.9	P/P	30 - 150
2377289	Triclopyr	73.4	75.7	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P423967

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377441	Acesulfame K	59.1	62.2	P/P	40 - 150
2377441	AMPA	103	97.1	P/P	40 - 150
2377441	Endothall	140	136	P/P	40 - 150
2377441	Glufosinate	116	99.3	P/P	40 - 150
2377441	Glyphosate	99.3	101	P/P	40 - 150
2377441	Sucralose	124	123	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P424515

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377253	Fluoride	95.1	97.3	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P424183

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2377719	Organic Carbon	94.8	94.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P423998

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377426	Color (true)	0.765	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423995

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377426	Turbidity	12.9	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P424053

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377419	Calcium	0.858	Spike	P	0 - 20
2377419	Iron	0.969	Spike	P	0 - 20
2377419	Magnesium	0.724	Spike	P	0 - 20
2377419	Potassium	1.72	Spike	P	0 - 20
2377419	Sodium	1.49	Spike	P	0 - 20
2377419	Strontium	1.26	Spike	P	0 - 20
2377419	Tin	0.952	Spike	P	0 - 20
2377419	Titanium	0.801	Spike	P	0 - 20
2377419	Vanadium	0.406	Spike	P	0 - 20
2377419	Zinc	3.36	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P424053

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377419	Aluminum	4.08	Spike	P	0 - 20
2377419	Antimony	0.0589	Spike	P	0 - 20
2377419	Arsenic	0.929	Spike	P	0 - 20
2377419	Barium	0.979	Spike	P	0 - 20
2377419	Beryllium	0.0229	Spike	P	0 - 20
2377419	Boron	0.210	Spike	P	0 - 20
2377419	Cadmium	0.776	Spike	P	0 - 20
2377419	Chromium	1.02	Spike	P	0 - 20
2377419	Cobalt	1.61	Spike	P	0 - 20
2377419	Copper	1.22	Spike	P	0 - 20
2377419	Lead	1.30	Spike	P	0 - 20
2377419	Manganese	1.85	Spike	P	0 - 20
2377419	Molybdenum	0.514	Spike	P	0 - 20
2377419	Nickel	0.553	Spike	P	0 - 20
2377419	Selenium	1.48	Spike	P	0 - 20
2377419	Silver	0.798	Spike	P	0 - 20
2377419	Thallium	1.40	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424207

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377368	Chloride	0.0634	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P424210

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377368	Sulfate	0.487	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P424559

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2378478	Ammonia-N	0.182	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P424063

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377458	Kjeldahl Nitrogen	5.18	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P424288

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377429	NO2NO3-N	0.482	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P424137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377531	Total-P	2.29	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P423997

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377447	O-Phosphate-P	0.487	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P424059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377472	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	26.6	Spike	P	0 - 37
2377472	Acetochlor	4.69	Spike	P	0 - 28

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P424059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377472	Alachlor	5.38	Spike	P	0 - 30
2377472	Ametryn	8.64	Spike	P	0 - 32
2377472	Atrazine	2.55	Spike	P	0 - 41
2377472	Atrazine Desethyl	6.85	Spike	P	0 - 36
2377472	Avobenzone	22.6	Spike	P	0 - 36
2377472	Azinphos Methyl	3.45	Spike	P	0 - 75
2377472	Azoxystrobin	10.4	Spike	P	0 - 39
2377472	Bromacil	12.1	Spike	P	0 - 33
2377472	Butylate	3.56	Spike	P	0 - 44
2377472	Caffeine	15.6	Spike	P	0 - 74
2377472	Carbophenothion	0.0948	Spike	P	0 - 25
2377472	Carfentrazone Ethyl	1.03	Spike	P	0 - 27
2377472	Chlorfenapyr	3.05	Spike	P	0 - 24
2377472	Chlorpyrifos Ethyl	8.98	Spike	P	0 - 26
2377472	Chlorpyrifos Methyl	1.30	Spike	P	0 - 26
2377472	Coumaphos	2.30	Spike	P	0 - 28
2377472	Cyanazine	2.79	Spike	P	0 - 48
2377472	Cyprodinil	0.288	Spike	P	0 - 29
2377472	Dechlorane Plus	25.5	Spike	P	0 - 30
2377472	Demeton	12.0	Spike	P	0 - 33
2377472	Diazinon	4.14	Spike	P	0 - 29
2377472	Difenoconazole	8.97	Spike	P	0 - 34
2377472	Dimethenamid	1.58	Spike	P	0 - 39
2377472	Dimethomorph	1.24	Spike	P	0 - 51
2377472	Disulfoton	2.45	Spike	P	0 - 30
2377472	Dithiopyr	4.47	Spike	P	0 - 26
2377472	EPTC	18.6	Spike	P	0 - 43
2377472	Ethion	35.8	Spike	P	0 - 79
2377472	Ethoprop	0.998	Spike	P	0 - 29
2377472	Etridiazole	9.10	Spike	P	0 - 33
2377472	Fenamiphos	1.54	Spike	P	0 - 40
2377472	Fenbuconazole	0.0254	Spike	P	0 - 74
2377472	Fipronil	4.39	Spike	P	0 - 29
2377472	Fipronil Desulfanyl	6.93	Spike	P	0 - 32
2377472	Fipronil Sulfide	1.82	Spike	P	0 - 30
2377472	Fipronil Sulfone	9.08	Spike	P	0 - 33
2377472	Fluazifop-P-butyl	0.234	Spike	P	0 - 38
2377472	Fludioxonil	12.8	Spike	P	0 - 29
2377472	Flumioxazin	5.66	Spike	P	0 - 51
2377472	Flutolanil	6.01	Spike	P	0 - 25
2377472	Fluxapyroxad	11.2	Spike	P	0 - 45
2377472	Fonofos	7.66	Spike	P	0 - 27
2377472	Hexazinone	8.19	Spike	P	0 - 30
2377472	Imazalil	4.32	Spike	P	0 - 100
2377472	Iprodione	8.23	Spike	P	0 - 33
2377472	Loratadine	2.80	Spike	P	0 - 56
2377472	Malathion	7.72	Spike	P	0 - 37
2377472	Metalaxyl	6.99	Spike	P	0 - 40
2377472	Metolachlor	1.13	Spike	P	0 - 29
2377472	Metribuzin	9.10	Spike	P	0 - 45
2377472	Mevinphos	5.77	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P424059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377472	Molinate	7.48	Spike	P	0 - 33
2377472	Myclobutanil	4.07	Spike	P	0 - 26
2377472	Naled	23.4	Spike	P	0 - 37
2377472	Napropamide	9.94	Spike	P	0 - 44
2377472	Norflurazon	3.51	Spike	P	0 - 30
2377472	Octinoxate	16.3	Spike	P	0 - 45
2377472	Oxadiazon	0.199	Spike	P	0 - 28
2377472	Oxybenzone	2.25	Spike	P	0 - 46
2377472	Oxyfluorfen	9.22	Spike	P	0 - 28
2377472	Parathion Ethyl	5.97	Spike	P	0 - 31
2377472	Parathion Methyl	0.674	Spike	P	0 - 29
2377472	PBDE-47	27.7	Spike	P	0 - 36
2377472	PBDE-99	29.4	Spike	P	0 - 40
2377472	Pendimethalin	3.79	Spike	P	0 - 33
2377472	Phenytoin	24.5	Spike	P	0 - 100
2377472	Phorate	1.28	Spike	P	0 - 36
2377472	Prodiamine	3.45	Spike	P	0 - 71
2377472	Prometon	35.1	Spike	P	0 - 36
2377472	Prometryn	7.07	Spike	P	0 - 28
2377472	Pronamide	1.37	Spike	P	0 - 24
2377472	Propanil	9.30	Spike	P	0 - 28
2377472	Propargite	21.6	Spike	P	0 - 43
2377472	Propiconazole	6.75	Spike	P	0 - 33
2377472	Pyraflufen Ethyl	3.53	Spike	P	0 - 29
2377472	Pyridaben	1.31	Spike	P	0 - 30
2377472	Pyriproxyfen	1.12	Spike	P	0 - 79
2377472	Simazine	11.6	Spike	P	0 - 29
2377472	Stirophos	17.6	Spike	P	0 - 61
2377472	Sulfentrazone	7.82	Spike	P	0 - 33
2377472	Tebuconazole	14.9	Spike	P	0 - 69
2377472	Terbufos	10.8	Spike	P	0 - 29
2377472	Terbutylazine	7.65	Spike	P	0 - 32
2377472	Thiobencarb	3.17	Spike	P	0 - 26
2377472	Tri-o-cresyl Phosphate	16.0	Spike	P	0 - 33
2377472	Triadimefon	1.00	Spike	P	0 - 28

Reference Method: EPA 8321B
Batch ID: P423955

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377289	2,4-D	4.84	Spike	P	0 - 30
2377289	2,4,5-T	12.4	Spike	P	0 - 30
2377289	Acetaminophen	0.0882	Spike	P	0 - 30
2377289	Acetamiprid	7.71	Spike	P	0 - 30
2377289	Afidopyropen	8.82	Spike	P	0 - 30
2377289	Bentazon	5.85	Spike	P	0 - 30
2377289	Benzovindiflupyr	2.55	Spike	P	0 - 30
2377289	Carbamazepine	3.81	Spike	P	0 - 30
2377289	Clothianidin	4.85	Spike	P	0 - 30
2377289	Dinotefuran	1.03	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P423955

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377289	Diuron	1.00	Spike	P	0 - 30
2377289	Fenuron	1.09	Spike	P	0 - 30
2377289	Fluridone	1.17	Spike	P	0 - 30
2377289	Hydrocodone	8.19	Spike	P	0 - 30
2377289	Ibuprofen	2.18	Spike	P	0 - 30
2377289	Imazapyr	0.510	Spike	P	0 - 30
2377289	Imidacloprid	3.79	Spike	P	0 - 30
2377289	Linuron	12.0	Spike	P	0 - 30
2377289	Mandestrobin	0.0198	Spike	P	0 - 30
2377289	MCPPP	2.74	Spike	P	0 - 30
2377289	Naproxen	14.1	Spike	P	0 - 30
2377289	Primidone	2.46	Spike	P	0 - 30
2377289	Pyraclostrobin	4.11	Spike	P	0 - 30
2377289	Silvex	1.45	Spike	P	0 - 30
2377289	Thiamethoxam	1.97	Spike	P	0 - 30
2377289	Tolfenpyrad	4.65	Spike	P	0 - 30
2377289	Triclopyr	3.15	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P423967

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377441	Acesulfame K	5.22	Spike	P	0 - 30
2377441	AMPA	5.65	Spike	P	0 - 30
2377441	Endothall	2.70	Spike	P	0 - 30
2377441	Glufosinate	15.5	Spike	P	0 - 30
2377441	Glyphosate	2.08	Spike	P	0 - 30
2377441	Sucralose	0.161	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P424085

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2376772	Total Alkalinity	1.32	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P424308

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377457	TDS	7.06	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P424515

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377253	Fluoride	1.42	Spike	P	0 - 1.6

Quality Assurance Report

Precision

Reference Method: SM 5310 B-2011
Batch ID: P424183

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2377719	Organic Carbon	0.0633	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2377441

Field Sample ID: G3NW0224

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	91.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	83.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	74.3	P	30 - 160
EPA 8321B	Diuron-d6	78.3	P	30 - 160
EPA 8321B	Endothall-d6	131	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	102	P	30 - 160
EPA 8321B	Ibuprofen-d3	80.9	P	30 - 160
EPA 8321B	Primidone-d5	83.2	P	30 - 160
EPA 8321B	Sucralose-d6	69.9	P	30 - 160

Lab Sample ID: 2377442

Field Sample ID: G3NW0224

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	71.1	P	20 - 200
EPA 8270E	Simazine-d10	110	P	62 - 142
EPA 8270E	Terbufos-d10	83.6	P	58 - 132
EPA 8270E	Terphenyl-d14	113	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A116670

Included Lab Sample IDs: 2377438

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A116671

Included Lab Sample IDs: 2377440

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

Reference Method: DEP SOP: NU-094-1

Run ID: A116672

Included Lab Sample IDs: 2377438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	92.8	90.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A116705

Included Lab Sample IDs: 2377441

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	78.5	67.8	P/P	60 - 160
Sucralose	124	123	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A116707

Included Lab Sample IDs: 2377441

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	92.1	87.9	P/P	60 - 160
Endothall	181*	125	F/P	60 - 160
Glufosinate	102	101	P/P	60 - 160
Glyphosate	99.3	108	P/P	60 - 160

Reference Method: SM 2320 B-2011

Run ID: A116713

Included Lab Sample IDs: 2377438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.2	97.2	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A116714

Included Lab Sample IDs: 2377441

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	91.5	101	P/P	50 - 150
2,4,5-T	105	109	P/P	50 - 150
Acetaminophen	104	103	P/P	60 - 160
Acetamiprid	98.9	98.3	P/P	50 - 150
Afidopyropen	95.5	106	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A116714
Included Lab Sample IDs: 2377441

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	111	112	P/P	50 - 160
Benzovindiflupyr	107	98.0	P/P	50 - 150
Carbamazepine	108	104	P/P	60 - 150
Clothianidin	94.7	89.4	P/P	60 - 150
Dinotefuran	95.9	91.8	P/P	50 - 150
Diuron	120	125	P/P	60 - 160
Fenuron	98.6	96.0	P/P	60 - 150
Fluridone	99.5	116	P/P	60 - 160
Hydrocodone	97.4	93.8	P/P	60 - 150
Ibuprofen	72.1	101	P/P	50 - 160
Imazapyr	99.1	93.7	P/P	50 - 150
Imidacloprid	97.2	103	P/P	60 - 150
Linuron	85.1	103	P/P	60 - 150
Mandestrobin	102	112	P/P	50 - 150
MCPP	95.9	103	P/P	50 - 150
Naproxen	99.9	90.0	P/P	50 - 160
Primidone	110	98.2	P/P	60 - 150
Pyraclostrobin	111	104	P/P	60 - 150
Silvex	104	104	P/P	50 - 150
Thiamethoxam	93.0	96.3	P/P	50 - 150
Tolfenpyrad	98.7	98.8	P/P	60 - 150
Triclopyr	97.2	100	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A116716
Included Lab Sample IDs: 2377438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.4	99.6	P/P	90 - 110
Sulfate	100	100	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A116757
Included Lab Sample IDs: 2377439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	99.6	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A116764
Included Lab Sample IDs: 2377442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	105		P	80 - 120
Avobenzone	113		P	80 - 120
Dechlorane Plus	107		P	80 - 120
Octinoxate	113		P	80 - 120
Oxybenzone	116		P	80 - 120
PBDE-47	109		P	80 - 120
PBDE-99	101		P	80 - 120
Tri-o-cresyl Phosphate	108		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A116779

Included Lab Sample IDs: 2377439

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A116781

Included Lab Sample IDs: 2377439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	99.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A116786

Included Lab Sample IDs: 2377442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.8		P	80 - 120
Alachlor	89.8		P	80 - 120
Ametryn	100		P	80 - 120
Atrazine	97.1		P	80 - 120
Atrazine Desethyl	99.9		P	80 - 120
Azinphos Methyl	95.6		P	80 - 120
Azoxystrobin	96.4		P	80 - 120
Bromacil	97.3		P	80 - 120
Butylate	100		P	80 - 120
Caffeine	111		P	80 - 120
Carbophenothion	97.1		P	80 - 120
Carfentrazone Ethyl	99.5		P	80 - 120
Chlorfenapyr	101		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	98.5		P	80 - 120
Coumaphos	98.3		P	80 - 120
Cyanazine	107		P	80 - 120
Cyprodinil	100		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	99.3		P	80 - 120
Difenoconazole	93.5		P	80 - 120
Dimethenamid	104		P	80 - 120
Dimethomorph	87.1		P	80 - 120
Disulfoton	97.3		P	80 - 120
Dithiopyr	100		P	80 - 120
EPTC	102		P	80 - 120
Ethion	101		P	80 - 120
Ethoprop	96.5		P	80 - 120
Etridiazole	100		P	80 - 120
Fenamiphos	97.3		P	80 - 120
Fenbuconazole	98.7		P	80 - 120
Fipronil	97.1		P	80 - 120
Fipronil Desulfinyl	98.4		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	98.0		P	80 - 120
Fluazifop-P-butyl	108		P	80 - 120
Fludioxonil	92.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A116786
Included Lab Sample IDs: 2377442

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Flumioxazin	91.7		P	80 - 120
Flutolanil	100		P	80 - 120
Fluxapyroxad	101		P	80 - 120
Fonofos	100		P	80 - 120
Hexazinone	95.5		P	80 - 120
Imazalil	98.8		P	80 - 120
Iprodione	99.1		P	80 - 120
Loratadine	87.1		P	80 - 120
Malathion	99.3		P	80 - 120
Metalaxyl	101		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	97.1		P	80 - 120
Mevinphos	93.9		P	80 - 120
Molinate	100		P	80 - 120
Myclobutanil	101		P	80 - 120
Naled	110		P	80 - 120
Napropamide	98.5		P	80 - 120
Norflurazon	96.9		P	80 - 120
Oxadiazon	98.9		P	80 - 120
Oxyfluorfen	91.5		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	106		P	80 - 120
Phenytoin	99.0		P	80 - 120
Phorate	104		P	80 - 120
Prodiamine	92.7		P	80 - 120
Prometon	104		P	80 - 120
Prometryn	101		P	80 - 120
Pronamide	97.8		P	80 - 120
Propanil	99.5		P	80 - 120
Propargite	94.1		P	80 - 120
Propiconazole	97.0		P	80 - 120
Pyraflufen Ethyl	99.7		P	80 - 120
Pyridaben	101		P	80 - 120
Pyriproxyfen	101		P	80 - 120
Simazine	96.9		P	80 - 120
Stirophos	98.3		P	80 - 120
Sulfentrazone	93.4		P	80 - 120
Tebuconazole	96.6		P	80 - 120
Terbufos	103		P	80 - 120
Terbutylazine	101		P	80 - 120
Thiobencarb	100		P	80 - 120
Triadimefon	105		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A116803
Included Lab Sample IDs: 2377439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A116886

Included Lab Sample IDs: 2377438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.6	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A116902

Included Lab Sample IDs: 2377439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.2	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A116968

Included Lab Sample IDs: 2377419

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.9	99.4	P/P	90 - 110
Antimony	98.0	99.8	P/P	90 - 110
Arsenic	101	102	P/P	90 - 110
Barium	98.7	101	P/P	90 - 110
Beryllium	98.2	99.8	P/P	90 - 110
Boron	94.9	94.0	P/P	90 - 110
Cadmium	98.5	100	P/P	90 - 110
Chromium	95.1	98.0	P/P	90 - 110
Cobalt	97.7	100	P/P	90 - 110
Copper	98.9	101	P/P	90 - 110
Lead	91.0	93.0	P/P	90 - 110
Manganese	96.0	99.1	P/P	90 - 110
Molybdenum	96.6	98.1	P/P	90 - 110
Nickel	99.8	102	P/P	90 - 110
Selenium	101	103	P/P	90 - 110
Silver	99.2	101	P/P	90 - 110
Thallium	97.9	100	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A116978

Included Lab Sample IDs: 2377419

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	92.4	96.0	P/P	90 - 110
Iron	95.7	98.1	P/P	90 - 110
Magnesium	94.3	97.4	P/P	90 - 110
Potassium	98.7	101	P/P	90 - 110
Sodium	100	102	P/P	90 - 110
Strontium	101	100	P/P	90 - 110
Tin	93.9	93.6	P/P	90 - 110
Titanium	102	101	P/P	90 - 110
Vanadium	101	101	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A116990

Included Lab Sample IDs: 2377419

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Zinc	91.9	91.7	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
			LCS				
DEP SOP: NU-094-1	Color (true)	90.9				0.765	
EPA 180.1 Rev. 2.0	Turbidity	102				12.9	
EPA 200.7 Rev. 4.4	Calcium	98.7	98.7	97.7	95.5		0.858
	Iron	102	101	100	96.8		0.969
	Magnesium	101	103	102	95.5		0.724
	Potassium	100	100	98.3	96.5		1.72
	Sodium	105	102	100	97.4		1.49
	Strontium	103	103	102	98.7		1.26
	Tin	95.9	96.4	97.3	96.1		0.952
	Titanium	103	90.0	89.2	92.8		0.801
	Vanadium	101	105	104	100		0.406
	Zinc	89.4	93.3	96.5	91.6		3.36
EPA 200.8 Rev. 5.4	Aluminum	98.7	89.8	95.5	100		4.08
	Antimony	99.1	96.9	96.9	101		0.0589
	Arsenic	100	101	102	101		0.929
	Barium	101	101	102	100		0.979
	Beryllium	96.9	93.9	93.9	96.4		0.0229
	Boron	98.2	97.1	96.9	99.2		0.210
	Cadmium	101	99.0	99.8	103		0.776
	Chromium	96.7	95.8	96.8	98.2		1.02
	Cobalt	99.8	99.2	101	98.6		1.61
	Copper	99.6	100	102	99.1		1.22
	Lead	91.6	92.0	93.3	93.0		1.30
	Manganese	96.9	96.4	99.2	98.6		1.85
	Molybdenum	97.3	96.9	97.4	99.5		0.514
	Nickel	101	102	103	99.5		0.553
	Selenium	101	101	102	103		1.48
	Silver	100	99.2	100	100		0.798
	Thallium	98.9	100	101	102		1.40
EPA 300.0 Rev. 2.1	Chloride	97.3	96.2	97.8		0.0634	
	Sulfate	98.2	100	99.1		0.487	
EPA 350.1 Rev. 2.0	Ammonia-N	102	100	100			0.182
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	96.2	105			5.18
EPA 353.2 Rev. 2.0	NO2NO3-N	103	104	104			0.482
EPA 365.1 Rev. 2.0	Total-P	106	108	105			2.29
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.7	103	102			0.487
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	74.5	68.5	52.4			26.6
	Acetochlor	97.7	94.5	90.1			4.69
	Alachlor	92.6	85.5	90.2			5.38
	Ametryn	107	100	109			8.64
	Atrazine	109	117	113			2.55
	Atrazine Desethyl	88.6	78.9	84.5			6.85
	Avobenzone	99.0	91.9	73.2			22.6
	Azinphos Methyl	117	107	110			3.45
	Azoxystrobin	139	139	124			10.4
	Bromacil	93.6	88.8	100			12.1
	Butylate	58.9	56.5	58.5			3.56
	Caffeine	94.9	81.6	95.4			15.6
	Carbophenothion	102	101	102			0.0948
	Carfentrazone Ethyl	103	100	101			1.03
	Chlorfenapyr	96.4	89.9	92.7			3.05
	Chlorpyrifos Ethyl	100	87.0	95.2			8.98

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	110	107	106		1.30
	Coumaphos	102	93.9	91.7		2.30
	Cyanazine	225	220	226		2.79
	Cyprodinil	112	105	105		0.288
	Dechlorane Plus	71.3	71.8	55.5		25.5
	Demeton	107	110	97.5		12.0
	Diazinon	112	113	109		4.14
	Difenoconazole	81.0	127	139		8.97
	Dimethenamid	74.7	75.0	76.2		1.58
	Dimethomorph	169	171	173		1.24
	Disulfoton	121	131	128		2.45
	Dithiopyr	97.6	96.2	92.0		4.47
	EPTC	52.9	54.3	45.1		18.6
	Ethion	61.9	52.5	75.4		35.8
	Ethoprop	112	114	115		0.998
	Etridiazole	61.7	66.2	60.5		9.10
	Fenamiphos	95.4	91.6	90.2		1.54
	Fenbuconazole	110	103	103		0.0254
	Fipronil	105	110	117		4.39
	Fipronil Desulfinyl	106	104	112		6.93
	Fipronil Sulfide	89.9	92.4	94.4		1.82
	Fipronil Sulfone	95.6	91.4	104		9.08
	Fluazifop-P-butyl	103	98.8	99.0		0.234
	Fludioxonil	90.4	85.2	96.8		12.8
	Flumioxazin	93.2	143	152		5.66
	Flutolanil	97.4	93.2	99.0		6.01
	Fluxapyroxad	102	89.0	99.6		11.2
	Fonofos	106	108	100		7.66
	Hexazinone	99.2	97.4	106		8.19
	Imazalil	97.2	103	98.6		4.32
	Iprodione	95.1	84.5	91.8		8.23
	Loratadine	153	162	167		2.80
	Malathion	98.3	86.7	93.7		7.72
	Metalaxyl	110	111	119		6.99
	Metolachlor	97.2	98.0	96.7		1.13
	Metribuzin	111	125	114		9.10
	Mevinphos	89.8	96.4	102		5.77
	Molinate	73.7	81.1	75.3		7.48
	Myclobutanil	100	94.3	98.2		4.07
	Naled	106	133	105		23.4
	Napropamide	94.3	95.8	106		9.94
	Norflurazon	84.2	79.7	82.6		3.51
	Octinoxate	82.7	56.5	48.0		16.3
	Oxadiazon	96.8	97.0	97.2		0.199
	Oxybenzone	83.4	54.0	55.2		2.25
	Oxyfluorfen	125	125	137		9.22
	Parathion Ethyl	101	105	98.8		5.97
	Parathion Methyl	121	126	127		0.674
	PBDE-47	76.2	63.4	48.0		27.7
	PBDE-99	73.0	63.0	46.8		29.4
	Pendimethalin	139	140	135		3.79
	Phenytoin	28.2	31.0	39.7		24.5
	Phorate	98.8	105	106		1.28
	Prodiamine	38.9	43.4	42.0		3.45

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
EPA 8270E	Prometon	76.1					35.1
	Prometryn	92.1		93.3	86.9		7.07
	Pronamide	96.0		83.0	84.1		1.37
	Propanil	103		103	113		9.30
	Propargite	73.5		66.6	82.7		21.6
	Propiconazole	100		98.2	91.8		6.75
	Pyraflufen Ethyl	102		94.7	98.1		3.53
	Pyridaben	122		129	131		1.31
	Pyriproxyfen	95.9		101	99.6		1.12
	Simazine	97.1					11.6
	Stirophos	63.6		79.8	66.9		17.6
	Sulfentrazone	87.2		91.9	84.2		7.82
	Tebuconazole	50.6		60.3	52.0		14.9
	Terbufos	129		134	149		10.8
	Terbuthylazine	91.8		86.9	93.8		7.65
	Thiobencarb	79.9		77.0	79.5		3.17
	Tri-o-cresyl Phosphate	79.3		63.5	54.1		16.0
	Triadimefon	94.8		84.3	83.5		1.00
EPA 8321B	2,4-D	73.9		75.5	80.6		4.84
	2,4,5-T	60.3		72.5	82.1		12.4
	Acesulfame K	89.3		59.1	62.2		5.22
	Acetaminophen	84.4		86.8	86.7		0.0882
	Acetamiprid	65.8		57.3	61.9		7.71
	Afidopyropen	70.0		63.5	69.3		8.82
	AMPA	100		103	97.1		5.65
	Bentazon	87.7					5.85
	Benzovindiflupyr	80.6		74.6	76.6		2.55
	Carbamazepine	92.0		66.9	64.4		3.81
	Clothianidin	82.3		84.9	80.9		4.85
	Dinotefuran	81.0		90.4	89.5		1.03
	Diuron	92.0		54.5	53.8		1.00
	Endothall	147		140	136		2.70
	Fenuron	90.8		85.3	86.3		1.09
	Fluridone	83.3					1.17
	Glufosinate	95.3		116	99.3		15.5
	Glyphosate	105		99.3	101		2.08
	Hydrocodone	81.0		71.4	77.5		8.19
	Ibuprofen	91.6		65.5	64.1		2.18
	Imazapyr	90.9					0.510
	Imidacloprid	88.7		114	120		3.79
	Linuron	79.0		66.3	58.8		12.0
	Mandestrobin	90.3		76.6	76.6		0.0198
	MCPP	82.9		86.4	88.8		2.74
	Naproxen	64.1		74.9	65.0		14.1
	Primidone	88.0		90.4	92.6		2.46
	Pyraclostrobin	73.5		70.2	73.1		4.11
	Silvex	63.5		84.1	85.4		1.45
	Sucralose	127		124	123		0.161
	Thiamethoxam	84.1		95.2	97.2		1.97
	Tolfenpyrad	38.6		50.5	52.9		4.65
	Triclopyr	63.4		73.4	75.7		3.15
SM 2320 B-2011	Total Alkalinity	98.1				1.32	
SM 2540 C-2015	TDS	101				7.06	
SM 2540 D-2015	TSS	96.9					

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
SM 4500-F- C-2011	Fluoride	98.9	95.1	97.3		1.42
SM 5310 B-2011	Organic Carbon	97.6	94.8	94.8		0.0633

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2377438
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2377438
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2377419
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2377419
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2377438
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2377438
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2377439
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2377439
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2377439
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2377439
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2377440
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2377442
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2377442
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2377441
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2377438
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2377419
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2377438
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2377438
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2377438
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2377439

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	12/27/2022			12/28/2022 15:43	Alexis Price	2377438
EPA 180.1 Rev. 2.0	12/27/2022			12/28/2022 13:58	Anna M. Plaviak	2377438
EPA 200.7 Rev. 4.4	12/27/2022	01/03/2023 11:50	George D Taylor	01/18/2023 19:33	McKinley C Carter	2377419
	12/27/2022	01/03/2023 11:50	George D Taylor	01/19/2023 21:31	McKinley C Carter	2377419
EPA 200.8 Rev. 5.4	12/27/2022	01/03/2023 11:50	George D Taylor	01/19/2023 00:56	Emily M Philpot	2377419
EPA 300.0 Rev. 2.1	12/27/2022			01/06/2023 06:40	Anna M. Plaviak	2377438
EPA 350.1 Rev. 2.0	12/27/2022			01/13/2023 11:13	Ping Hua	2377439
EPA 351.2 Rev. 2.0	12/27/2022	01/04/2023 10:00	Simonne.V. Calhoun	01/06/2023 15:21	Samantha L Bates	2377439
EPA 353.2 Rev. 2.0	12/27/2022			01/09/2023 11:15	Beverly Y. Sanders	2377439
EPA 365.1 Rev. 2.0	12/27/2022	01/05/2023 13:37	Adam P Silver	01/06/2023 15:15	James L Waggeberby	2377439
EPA 365.1 Rev. 2.0 dissolved	12/27/2022			12/28/2022 15:09	Elise M. Gillis	2377440
EPA 8270E	12/27/2022	01/03/2023 08:00	Fe-Val Siddell	01/04/2023 19:31	Arthur Maknenko	2377442
	12/27/2022	01/03/2023 08:00	Fe-Val Siddell	01/07/2023 18:49	Michael Poppell	2377442
EPA 8321B	12/27/2022	12/28/2022 09:00	June Rhew	01/04/2023 02:58	Juyoung Kim	2377441
	12/27/2022	12/28/2022 11:00	June Rhew	12/28/2022 12:11	Manjita Shrestha	2377441
	12/27/2022	12/28/2022 11:00	June Rhew	12/28/2022 18:00	Manjita Shrestha	2377441
SM 2320 B-2011	12/27/2022			01/03/2023 23:42	Adam P Silver	2377438
SM 2340 B-2011	12/27/2022			01/18/2023 19:33	McKinley C Carter	2377419
SM 2540 C-2015	12/27/2022			12/29/2022 13:42	Yijie Li	2377438
SM 2540 D-2015	12/27/2022			12/29/2022 13:42	Yijie Li	2377438
SM 4500-F- C-2011	12/27/2022			01/12/2023 17:53	Dale L. Simmons	2377438
SM 5310 B-2011	12/27/2022			01/05/2023 23:42	Khloe J Berg	2377439