

Chemical Analysis Report

NW-DIST-2023-04-12-01

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

Event Description: **SCI**
Request ID: **RQ-2023-04-10-38**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government Street
Suite 208
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 04-MAY-2023 11:48



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: OTTER CREEK WASTE PRO TEST SITE
BELOW LANDFILL**

Collection Date/Time: 04/11/2023 12:25

Field ID: G3NW0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2399759	DEP SOP: NU-094-1	Color (true)	29	A	PCU	P428395	
	EPA 180.1 Rev. 2.0	Turbidity	4.8		NTU	P428398	
	EPA 300.0 Rev. 2.1	Chloride	47		mg Cl/L	P428765	
		Sulfate	21		mg SO4/L	P428768	
	SM 2320 B-2011	Total Alkalinity	30		mg CaCO3/L	P428510	
	SM 2540 C-2015	TDS	131		mg/L	P428904	
	SM 2540 D-2015	TSS	8	I	mg/L	P428821	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P428928	
2399760	EPA 350.1 Rev. 2.0	Ammonia-N	2.7		mg N/L	P428789	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	3.0		mg N/L	P428475	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P428775	
	EPA 365.1 Rev. 2.0	Total-P	0.006		mg P/L	P428552	
	SM 5310 B-2011	Organic Carbon	5.3		mg C/L	P428606	
2399761	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P428379	
2399765	EPA 8321B	2,4-D	0.0033	I	ug/L	P428433	
		Acesulfame K	0.19	I	ug/L	P428312	
		2,4,5-T	0.0040	U	ug/L	P428433	
		AMPA	0.10	U	ug/L	P428312	
		Acetaminophen	0.0080	U	ug/L	P428433	
		Acetamiprid	0.0020	U	ug/L	P428433	
		Endothall	0.25	U	ug/L	P428312	
		Glufosinate	0.10	U	ug/L	P428312	
		Glyphosate	0.10	U	ug/L	P428312	
		Afidopyropen	0.0020	U	ug/L	P428433	
		Bentazon	0.0062		ug/L	P428433	
		Sucralose	0.22		ug/L	P428312	
		Benzovindiflupyr	0.0020	U	ug/L	P428433	
		Carbamazepine	8.0E-04	U	ug/L	P428433	
		Clothianidin	0.0020	U	ug/L	P428433	
		Dinotefuran	0.0020	U	ug/L	P428433	
		Diuron	0.0020	U	ug/L	P428433	
		Fenuron	0.032	U	ug/L	P428433	
		Fluridone	8.0E-04	U	ug/L	P428433	
		Imazapyr	0.010	I	ug/L	P428433	
		Hydrocodone	0.0020	U	ug/L	P428433	
		Ibuprofen	0.080	U	ug/L	P428433	
		Imidacloprid	0.0020	U	ug/L	P428433	
		Linuron	0.0040	U	ug/L	P428433	
		Mandestrobin	0.0020	U	ug/L	P428433	
		MCP	0.098		ug/L	P428433	
		Naproxen	0.0080	U	ug/L	P428433	
		Primidone	0.0053	I	ug/L	P428433	
							MS

Field ID: G3NW0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2399765	EPA 8321B	Pyraclostrobin	0.0020	U	ug/L	P428433	
		Silvex	0.0040	U	ug/L	P428433	
		Thiamethoxam	0.0020	U	ug/L	P428433	
		Tolfenpyrad	0.0020	U	ug/L	P428433	
		Triclopyr	0.0040	U	ug/L	P428433	
2399766	EPA 200.7 Rev. 4.4	Calcium	13.0		mg/L	P428416	
		Iron	1.66E+03		ug/L	P428416	
		Magnesium	2.78		mg/L	P428416	
		Potassium	6.3		mg/L	P428416	
		Sodium	29.3		mg/L	P428416	
		Strontium	65.5		ug/L	P428416	
		Tin	3.0	U	ug/L	P428416	
		Titanium	0.75	U	ug/L	P428416	
		Vanadium	2.0	U	ug/L	P428416	
		Zinc	5.0	U	ug/L	P428416	
	EPA 200.8 Rev. 5.4	Aluminum	119		ug/L	P428416	
		Antimony	0.050	U	ug/L	P428416	
		Arsenic	0.79		ug/L	P428416	
		Barium	22.7		ug/L	P428416	
		Beryllium	0.011	I	ug/L	P428416	
		Boron	287		ug/L	P428416	
		Cadmium	0.020	U	ug/L	P428416	
		Chromium	0.46	I	ug/L	P428416	
		Cobalt	0.752		ug/L	P428416	
		Copper	0.40	U	ug/L	P428416	
		Lead	0.20	U	ug/L	P428416	
		Manganese	60.3		ug/L	P428416	
		Molybdenum	0.27	I	ug/L	P428416	
		Nickel	0.50	U	ug/L	P428416	
		Selenium	0.20	U	ug/L	P428416	
		Silver	0.010	U	ug/L	P428416	
		Thallium	0.10	U	ug/L	P428416	
	SM 2340 B-2011	Hardness	43.9		mg/L	P428416	
2399767	EPA 8270E	Oxybenzone**	11	U	ng/L	P428317	
		Acetochlor	0.22	U	ng/L	P428317	
		Octinoxate**	22	U	ng/L	P428317	
		Alachlor	0.43	U	ng/L	P428317	
		Avobenzone**	110	U	ng/L	P428317	
		Ametryn	1.2	U	ng/L	P428317	
		Atrazine	0.55	I	ng/L	P428317	
		PBDE-47**	4.3	U	ng/L	P428317	
		Atrazine Desethyl	1.4	U	ng/L	P428317	
		PBDE-99**	5.4	U	ng/L	P428317	
		Azinphos Methyl	3.2	U	ng/L	P428317	
		Tri-o-cresyl Phosphate**	6.5	U	ng/L	P428317	

Field ID: G3NW0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2399767	EPA 8270E	Azoxystrobin	0.63	I	ng/L	P428317	RPD
		Bromacil	0.65	U	ng/L	P428317	
		2-Ethylhexyl	13	U	ng/L	P428317	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.22	U	ng/L	P428317	
		Dechlorane Plus**	32	U	ng/L	P428317	
		Caffeine**	8.1	U	ng/L	P428317	
		Dechlorane 602**	5.4	U	ng/L	P428317	
		Carbophenothion	0.54	U	ng/L	P428317	
		Dechlorane 603**	4.3	U	ng/L	P428317	
		Carfentrazone Ethyl	0.16	U	ng/L	P428317	
		Hexabromobenzene**	6.5	U	ng/L	P428317	
		Chlorfenapyr	0.32	U	ng/L	P428317	
		PBB-153**	8.6	U	ng/L	P428317	
		Chlorpyrifos Ethyl	0.32	U	ng/L	P428317	
		Pentabromotoluene**	3.2	U	ng/L	P428317	
		Chlorpyrifos Methyl	0.11	U	ng/L	P428317	
		Tris(2-chloroethyl) phosphate (TCEP)**	75	U	ng/L	P428317	
		Coumaphos	1.1	U	ng/L	P428317	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	310		ng/L	P428317	
		Cyanazine	5.4	U	ng/L	P428317	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.7	U	ng/L	P428317	
		Cyprodinil	0.22	U	ng/L	P428317	MS
		Tetradecachloro-m-terphenyl**	8.1	U	ng/L	P428317	
		Demeton	3.8	U	ng/L	P428317	
		Diazinon	0.13	U	ng/L	P428317	
		Difenoconazole	0.65	U	ng/L	P428317	
		Dimethenamid	0.11	U	ng/L	P428317	
		Dimethomorph	0.32	U	ng/L	P428317	
		Disulfoton	0.65	U	ng/L	P428317	
		Dithiopyr	1.1	U	ng/L	P428317	
		EPTC	0.54	U	ng/L	P428317	
		Ethion	0.32	U	ng/L	P428317	
		Ethoprop	0.13	U	ng/L	P428317	
		Etridiazole	0.11	U	ng/L	P428317	
		Fenamiphos	0.48	U	ng/L	P428317	
		Fenbuconazole	0.54	U	ng/L	P428317	
		Fipronil	0.22	U	ng/L	P428317	
		Fipronil Desulfinyl**	0.11	U	ng/L	P428317	
		Fipronil Sulfide	0.20	I	ng/L	P428317	
		Fipronil Sulfone	0.37	I	ng/L	P428317	
		Fluazifop-P-butyl	0.11	U	ng/L	P428317	
		Fludioxonil	0.47	I	ng/L	P428317	
		Flumioxazin	3.2	U	ng/L	P428317	
		Flutolanil	0.11	U	ng/L	P428317	

Field ID: G3NW0011

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2399767	EPA 8270E	Fluxapyroxad	0.27	U	ng/L	P428317	
		Fonofos	0.16	U	ng/L	P428317	
		Hexazinone	4.2		ng/L	P428317	
		Imazalil	0.70	U	ng/L	P428317	
		Iprodione	0.54	U	ng/L	P428317	
		Loratadine**	0.32	U	ng/L	P428317	
		Malathion	0.38	U	ng/L	P428317	
		Metaxyl	0.54	U	ng/L	P428317	MS
		Metolachlor	0.93	I	ng/L	P428317	
		Metribuzin	0.43	U	ng/L	P428317	
		Mevinphos	1.1	U	ng/L	P428317	
		Molinate	0.27	U	ng/L	P428317	
		Myclobutanil	0.72	I	ng/L	P428317	
		Naled	2.7	U	ng/L	P428317	
		Napropamide	0.75	U	ng/L	P428317	
		Norflurazon	1.6	I	ng/L	P428317	
		Oxadiazon	0.90	I	ng/L	P428317	RPD
		Oxyfluorfen	0.22	U	ng/L	P428317	
		Parathion Ethyl	0.16	U	ng/L	P428317	
		Parathion Methyl	0.22	U	ng/L	P428317	
		Pendimethalin	0.81	U	ng/L	P428317	
		Phenytoin**	5.7	U	ng/L	P428317	
		Phorate	0.27	U	ng/L	P428317	
		Prodiamine	0.22	U	ng/L	P428317	
		Prometon	3.2	U	ng/L	P428317	
		Prometryn	0.38	U	ng/L	P428317	
		Pronamide	0.11	U	ng/L	P428317	
		Propanil	0.11	U	ng/L	P428317	
		Propargite	0.86	U	ng/L	P428317	
		Propiconazole	0.65	U	ng/L	P428317	
		Pyraflufen Ethyl	0.32	U	ng/L	P428317	
		Pyridaben	1.5	U	ng/L	P428317	
		Pyriproxyfen	0.27	U	ng/L	P428317	
		Simazine	0.27	U	ng/L	P428317	
		Stirophos	0.43	U	ng/L	P428317	
		Sulfentrazone	2.3	I	ng/L	P428317	
		Tebuconazole	16		ng/L	P428317	
		Terbufos	0.22	U	ng/L	P428317	
		Terbuthylazine	0.22	U	ng/L	P428317	
		Thiobencarb	0.54	U	ng/L	P428317	
		Triadimefon	0.16	U	ng/L	P428317	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P428395

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428398

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P428416

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: P428416

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: P428765

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: P428768

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428789

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428475

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428775

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428552

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P428379

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

Reference Method: EPA 8270E
Batch ID: P428317

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	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428317

Component	Result	Code	Units
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	10	I	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	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	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428317

Component	Result	Code	Units
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428317

Component	Result	Code	Units
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	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	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428317

Component	Result	Code	Units
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8321B

Batch ID: P428312

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: P428433

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
Afidopyopen	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P428433

Component	Result	Code	Units
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: P428510

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

Reference Method: SM 2540 C-2015

Batch ID: P428904

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P428821

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P428928

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P428606

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: P428395

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428398

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P428416

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	80 - 120
Iron	103		P	80 - 120
Magnesium	105		P	80 - 120
Potassium	103		P	80 - 120
Sodium	105		P	80 - 120
Strontium	101		P	80 - 120
Tin	105		P	80 - 120
Titanium	102		P	80 - 120
Vanadium	104		P	80 - 120
Zinc	106		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P428416

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	104		P	85 - 115
Arsenic	101		P	85 - 115
Barium	104		P	85 - 115
Beryllium	94.7		P	85 - 115
Boron	98.8		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	105		P	85 - 115
Copper	103		P	85 - 115
Lead	102		P	85 - 115
Manganese	99.2		P	85 - 115
Molybdenum	100		P	85 - 115
Nickel	103		P	85 - 115
Selenium	99.7		P	85 - 115
Silver	103		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428765

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428768

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428789

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428475

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428775

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428552

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P428379

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	96.8		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P428317

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.8		P	42 - 162
Acetochlor	92.6		P	69 - 123
Alachlor	88.3		P	65 - 118
Ametryn	132		P	58 - 141
Atrazine	107		P	73 - 118
Atrazine Desethyl	107		P	32 - 125
Avobenzone	116		P	40 - 203
Azinphos Methyl	67.0		P	36 - 197
Azoxystrobin	103		P	58 - 226
Bromacil	104		P	48 - 120
Butylate	53.4		P	27 - 85.0
Caffeine	93.0		P	40 - 137
Carbophenothion	86.5		P	54 - 132
Carfentrazone Ethyl	119		P	60 - 142
Chlorfenapyr	96.6		P	53 - 117
Chlorpyrifos Ethyl	78.9		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P428317

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	77.0		P	66 - 119
Coumaphos	79.7		P	11 - 234
Cyanazine	190		P	61 - 248
Cyprodinil	96.5		P	50 - 147
Dechlorane 602	99.9		P	50 - 150
Dechlorane 603	103		P	50 - 150
Dechlorane Plus	99.4		P	47 - 182
Demeton	67.7		P	30 - 138
Diazinon	99.7		P	67 - 126
Difenoconazole	82.0		P	38 - 205
Dimethenamid	93.0		P	57 - 111
Dimethomorph	90.7		P	16 - 212
Disulfoton	71.7		P	46 - 126
Dithiopyr	89.7		P	62 - 115
EPTC	54.8		P	28 - 80.0
Ethion	75.4		P	24 - 122
Ethoprop	71.6		P	62 - 113
Etridiazole	64.5		P	28 - 92.0
Fenamiphos	116		P	57 - 128
Fenbuconazole	118		P	52 - 155
Fipronil	104		P	63 - 130
Fipronil Desulfinyl	83.3		P	61 - 130
Fipronil Sulfide	86.6		P	56 - 117
Fipronil Sulfone	96.0		P	52 - 118
Fluazifop-P-butyl	117		P	61 - 128
Fludioxonil	120		P	59 - 129
Flumioxazin	134		P	30 - 250
Flutolanil	85.2		P	53 - 127
Fluxapyroxad	97.3		P	42 - 132
Fonofos	108		P	61 - 110
Hexabromobenzene	126		P	50 - 150
Hexazinone	97.0		P	46 - 139
Imazalil	105		P	40 - 139
Iprodione	87.3		P	40 - 146
Loratadine	75.5		P	10 - 224
Malathion	100		P	61 - 135
Metalaxyl	93.2		P	58 - 121
Metolachlor	108		P	64 - 118
Metribuzin	101		P	45 - 245
Mevinphos	62.7		P	49 - 118
Molinate	72.8		P	42 - 92.0
Myclobutanil	119		P	55 - 127
Naled	60.9		P	10 - 114
Napropamide	85.4		P	39 - 121
Norflurazon	127		P	55 - 129
Octinoxate	92.1		P	26 - 166
Oxadiazon	101		P	54 - 115
Oxybenzone	89.1		P	49 - 135
Oxyfluorfen	116		P	64 - 139
Parathion Ethyl	86.2		P	70 - 111
Parathion Methyl	105		P	76 - 136
PBB-153	108		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P428317

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	85.7		P	41 - 148
PBDE-99	86.7		P	38 - 147
Pendimethalin	106		P	52 - 118
Pentabromotoluene	109		P	50 - 150
Phenytoin	97.3		P	10 - 162
Phorate	79.3		P	40 - 122
Prodiamine	52.4		P	26 - 141
Prometon	87.4		P	54 - 122
Prometryn	118		P	61 - 128
Pronamide	108		P	72 - 121
Propanil	90.2		P	45 - 144
Propargite	103		P	10 - 199
Propiconazole	93.4		P	56 - 127
Pyraflufen Ethyl	110		P	56 - 140
Pyridaben	136		P	26 - 211
Pyriproxyfen	51.9		P	33 - 194
Simazine	103		P	67 - 121
Stirophos	86.7		P	20 - 142
Sulfentrazone	96.2		P	21 - 144
Tebuconazole	68.6		P	10 - 122
Terbufos	73.8		P	60 - 129
Terbutylazine	88.6		P	69 - 113
Tetradecachloro-m-terphenyl	143		P	70 - 200
Thiobencarb	114		P	51 - 120
Tri-o-cresyl Phosphate	107		P	49 - 150
Triadimefon	95.2		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	87.4		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	84.1		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	108		P	70 - 180

Reference Method: EPA 8321B

Batch ID: P428312

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.8		P	40 - 150
AMPA	118		P	40 - 150
Endothall	89.3		P	40 - 150
Glufosinate	98.7		P	40 - 150
Glyphosate	124		P	40 - 150
Sucralose	112		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P428433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	98.4		P	40 - 150
2,4,5-T	84.6		P	40 - 150
Acetaminophen	69.2		P	30 - 150
Acetamiprid	79.1		P	40 - 150
Afidopyropen	58.0		P	30 - 150
Bentazon	80.6		P	30 - 150
Benzovindiflupyr	81.4		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P428433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	78.5		P	40 - 150
Clothianidin	82.7		P	40 - 150
Dinotefuran	88.1		P	40 - 150
Diuron	99.6		P	40 - 150
Fenuron	79.1		P	40 - 150
Fluridone	64.9		P	40 - 150
Hydrocodone	83.7		P	40 - 150
Ibuprofen	59.7		P	40 - 150
Imazapyr	87.2		P	40 - 150
Imidacloprid	82.3		P	40 - 150
Linuron	70.3		P	40 - 150
Mandestrobin	83.2		P	40 - 150
MCPP	96.8		P	40 - 150
Naproxen	66.0		P	40 - 150
Primidone	83.8		P	40 - 150
Pyraclostrobin	74.4		P	40 - 150
Silvex	100		P	40 - 150
Thiamethoxam	80.2		P	40 - 150
Tolfenpyrad	53.0		P	30 - 150
Triclopyr	95.8		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P428510

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.5		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P428904

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

Reference Method: SM 2540 D-2015
Batch ID: P428821

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	99.0		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P428928

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P428606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P428416

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399727	Calcium	105	104	P/P	80 - 120
2399727	Iron	106	104	P/P	80 - 120
2399727	Magnesium	109	106	P/P	80 - 120
2399727	Potassium	107	108	P/P	80 - 120
2399727	Sodium	105	105	P/P	80 - 120
2399727	Strontium	102	101	P/P	80 - 120
2399727	Tin	101	102	P/P	80 - 120
2399727	Titanium	101	101	P/P	80 - 120
2399727	Vanadium	103	102	P/P	80 - 120
2399727	Zinc	104	104	P/P	80 - 120
2399766	Calcium	103		P	80 - 120
2399766	Iron	105		P	80 - 120
2399766	Magnesium	106		P	80 - 120
2399766	Potassium	102		P	80 - 120
2399766	Sodium	103		P	80 - 120
2399766	Strontium	100		P	80 - 120
2399766	Tin	101		P	80 - 120
2399766	Titanium	102		P	80 - 120
2399766	Vanadium	102		P	80 - 120
2399766	Zinc	103		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P428416

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399727	Aluminum	98.7	102	P/P	80 - 120
2399727	Antimony	103	104	P/P	80 - 120
2399727	Arsenic	99.6	100	P/P	80 - 120
2399727	Barium	102	103	P/P	80 - 120
2399727	Beryllium	91.3	94.2	P/P	80 - 120
2399727	Boron	102	102	P/P	80 - 120
2399727	Cadmium	104	102	P/P	80 - 120
2399727	Chromium	98.0	98.6	P/P	80 - 120
2399727	Cobalt	101	103	P/P	80 - 120
2399727	Copper	99.5	101	P/P	80 - 120
2399727	Lead	103	104	P/P	80 - 120
2399727	Manganese	100	101	P/P	80 - 120
2399727	Molybdenum	100	100	P/P	80 - 120
2399727	Nickel	101	102	P/P	80 - 120
2399727	Selenium	96.0	97.9	P/P	80 - 120
2399727	Silver	102	103	P/P	80 - 120
2399727	Thallium	101	102	P/P	80 - 120
2399766	Aluminum	100		P	80 - 120
2399766	Antimony	104		P	80 - 120
2399766	Arsenic	102		P	80 - 120
2399766	Barium	101		P	80 - 120
2399766	Beryllium	95.3		P	80 - 120
2399766	Boron	104		P	80 - 120
2399766	Cadmium	102		P	80 - 120
2399766	Chromium	98.5		P	80 - 120
2399766	Cobalt	102		P	80 - 120
2399766	Copper	99.7		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P428416

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399766	Lead	104		P	80 - 120
2399766	Manganese	98.0		P	80 - 120
2399766	Molybdenum	102		P	80 - 120
2399766	Nickel	101		P	80 - 120
2399766	Selenium	97.6		P	80 - 120
2399766	Silver	101		P	80 - 120
2399766	Thallium	102		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P428765

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399709	Chloride	102		P	90 - 110
2399822	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P428768

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399709	Sulfate	102		P	90 - 110
2399822	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P428789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399823	Ammonia-N	102	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P428475

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399576	Kjeldahl Nitrogen	99.2	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P428775

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399714	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P428552

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399742	Total-P	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P428379

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399754	O-Phosphate-P	92.8	93.6	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P428317

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399020	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	77.7	85.5	P/P	26 - 165
2399020	Acetochlor	67.1	72.7	P/P	67 - 124
2399020	Alachlor	95.6	103	P/P	60 - 120
2399020	Ametryn	153	186	P/P	54 - 216
2399020	Atrazine Desethyl	74.9	73.1	P/P	15 - 122
2399020	Avobenzene	112	118	P/P	37 - 178
2399020	Azinphos Methyl	62.2	82.2	P/P	40 - 292
2399020	Bromacil	88.4	98.6	P/P	45 - 127
2399020	Butylate	32.3	38.7	P/P	20 - 83.0
2399020	Caffeine	90.7	96.4	P/P	10 - 194
2399020	Carbophenothion	63.3	65.4	P/P	57 - 127
2399020	Carfentrazone Ethyl	97.3	126	P/P	51 - 141
2399020	Chlorfenapyr	75.7	74.3	P/P	46 - 111
2399020	Chlorpyrifos Ethyl	65.6	68.2	P/P	52 - 120
2399020	Chlorpyrifos Methyl	74.1	75.5	P/P	63 - 119
2399020	Coumaphos	69.7	75.4	P/P	10 - 228
2399020	Cyanazine	179	213	P/P	59 - 241
2399020	Cyprodinil	41.2	47.9	F/P	47 - 146
2399020	Dechlorane 602	89.6	96.7	P/P	50 - 150
2399020	Dechlorane 603	95.3	103	P/P	50 - 150
2399020	Dechlorane Plus	67.3	93.9	P/P	50 - 150
2399020	Demeton	96.6	94.2	P/P	40 - 136
2399020	Diazinon	111	106	P/P	69 - 132
2399020	Difenoconazole	60.6	72.8	P/P	57 - 258
2399020	Dimethenamid	92.8	92.5	P/P	54 - 110
2399020	Dimethomorph	105	129	P/P	28 - 210
2399020	Disulfoton	76.6	73.3	P/P	43 - 133
2399020	Dithiopyr	88.2	89.1	P/P	39 - 116
2399020	EPTC	40.2	40.0	P/P	20 - 78.0
2399020	Ethion	63.9	63.4	P/P	17 - 119
2399020	Ethoprop	87.2	78.2	P/P	66 - 120
2399020	Etridiazole	56.6	60.4	P/P	28 - 96.0
2399020	Fenamiphos	69.5	73.8	P/P	41 - 126
2399020	Fenbuconazole	98.7	94.7	P/P	42 - 169
2399020	Fluazifop-P-butyl	102	96.5	P/P	53 - 131
2399020	Flumioxazin	118	108	P/P	19 - 300
2399020	Flutolanil	81.2	84.8	P/P	41 - 127
2399020	Fluxapyroxad	116	151	P/P	42 - 172
2399020	Fonofos	106	108	P/P	59 - 113
2399020	Hexabromobenzene	128	132	P/P	50 - 150
2399020	Hexazinone	90.7	94.5	P/P	66 - 122
2399020	Imazalil	92.6	85.9	P/P	21 - 283
2399020	Iprodione	70.3	61.3	P/P	43 - 150
2399020	Loratadine	75.9	85.5	P/P	23 - 201
2399020	Malathion	86.3	79.3	P/P	58 - 136
2399020	Metalaxyl	120	160	F/F	55 - 120
2399020	Mevinphos	63.5	57.6	P/P	50 - 126
2399020	Molinate	73.1	68.8	P/P	42 - 93.0
2399020	Myclobutanil	88.2	85.4	P/P	55 - 125
2399020	Naled	63.4	64.8	P/P	18 - 200
2399020	Napropamide	79.1	89.0	P/P	39 - 110
2399020	Norflurazon	83.9	83.3	P/P	48 - 128

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P428317

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399020	Octinoxate	91.2	96.1	P/P	21 - 159
2399020	Oxybenzone	80.7	86.9	P/P	41 - 142
2399020	Parathion Ethyl	98.6	92.6	P/P	69 - 114
2399020	Parathion Methyl	90.9	95.3	P/P	79 - 139
2399020	PBB-153	95.2	99.3	P/P	50 - 150
2399020	PBDE-47	80.0	81.5	P/P	27 - 144
2399020	PBDE-99	77.3	80.3	P/P	18 - 150
2399020	Pendimethalin	129	131	P/P	50 - 139
2399020	Pentabromotoluene	109	118	P/P	50 - 150
2399020	Phenytol	79.0	102	P/P	10 - 146
2399020	Phorate	103	109	P/P	54 - 161
2399020	Prodiamine	61.5	91.0	P/P	30 - 161
2399020	Prometon	82.0	90.9	P/P	45 - 134
2399020	Prometryn	99.0	106	P/P	45 - 137
2399020	Pronamide	106	104	P/P	65 - 133
2399020	Propanil	87.9	114	P/P	49 - 142
2399020	Propargite	80.5	93.0	P/P	10 - 203
2399020	Propiconazole	80.2	86.4	P/P	38 - 146
2399020	Pyraflufen Ethyl	112	124	P/P	34 - 153
2399020	Pyridaben	134	173	P/P	12 - 192
2399020	Pyriproxyfen	48.5	63.9	P/P	33 - 180
2399020	Simazine	78.9	75.3	P/P	51 - 157
2399020	Stirophos	52.5	46.3	P/P	10 - 128
2399020	Sulfentrazone	70.0	71.0	P/P	53 - 186
2399020	Tebuconazole	52.7	50.1	P/P	10 - 133
2399020	Terbufos	80.9	93.6	P/P	65 - 139
2399020	Terbutylazine	79.9	85.9	P/P	66 - 117
2399020	Tetradecachloro-m-terphenyl	143	151	P/P	70 - 200
2399020	Thiobencarb	85.4	87.4	P/P	51 - 119
2399020	Tri-o-cresyl Phosphate	106	110	P/P	31 - 144
2399020	Triadimefon	79.7	85.0	P/P	48 - 119
2399020	Tris(1-chloro-2-propyl) phosphate (TCPP)	84.4	90.8	P/P	50 - 150
2399020	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	80.4	83.0	P/P	50 - 150
2399020	Tris(2-chloroethyl) phosphate (TCEP)	104	111	P/P	70 - 180

Reference Method: EPA 8321B

Batch ID: P428312

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399392	Acesulfame K	93.0	93.7	P/P	40 - 150
2399392	AMPA	118	117	P/P	40 - 150
2399392	Endothall	96.7	98.9	P/P	40 - 150
2399392	Glufosinate	95.9	99.4	P/P	40 - 150
2399392	Glyphosate	110	107	P/P	40 - 150
2399392	Sucralose	97.5	93.3	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P428433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399997	2,4-D	89.5	92.4	P/P	40 - 150
2399997	2,4,5-T	103	108	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P428433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399997	Acetaminophen	94.4	95.1	P/P	30 - 150
2399997	Acetamiprid	49.8	44.5	P/P	40 - 150
2399997	Afidopyropen	72.9	79.0	P/P	30 - 150
2399997	Benzovindiflupyr	89.0	82.6	P/P	40 - 150
2399997	Carbamazepine	57.5	59.8	P/P	40 - 150
2399997	Clothianidin	73.2	74.9	P/P	40 - 150
2399997	Dinotefuran	49.4	49.6	P/P	40 - 150
2399997	Diuron	71.7	71.2	P/P	40 - 150
2399997	Fenuron	38.4	40.6	F/P	40 - 150
2399997	Fluridone	69.0	57.7	P/P	40 - 150
2399997	Hydrocodone	46.2	44.4	P/P	40 - 150
2399997	Ibuprofen	61.7	55.7	P/P	40 - 150
2399997	Imazapyr	71.1	68.9	P/P	40 - 150
2399997	Imidacloprid	99.4	102	P/P	40 - 150
2399997	Linuron	74.8	68.0	P/P	40 - 150
2399997	Mandestrobin	89.1	83.9	P/P	40 - 150
2399997	MCCP	104	121	P/P	40 - 150
2399997	Naproxen	66.7	59.6	P/P	40 - 150
2399997	Primidone	69.6	78.0	P/P	40 - 150
2399997	Pyraclostrobin	80.2	77.9	P/P	40 - 150
2399997	Silvex	114	106	P/P	40 - 150
2399997	Thiamethoxam	53.9	58.6	P/P	40 - 150
2399997	Tolfenpyrad	49.2	55.9	P/P	30 - 150
2399997	Triclopyr	123	117	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P428928

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399662	Fluoride	99.1	99.8	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P428606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2399831	Organic Carbon	92.2	92.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P428395

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399759	Color (true)	1.62	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P428398

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399689	Turbidity	1.16	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P428416

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399727	Calcium	0.336	Spike	P	0 - 20
2399727	Iron	2.09	Spike	P	0 - 20
2399727	Magnesium	1.96	Spike	P	0 - 20
2399727	Potassium	0.0936	Spike	P	0 - 20
2399727	Sodium	0.528	Spike	P	0 - 20
2399727	Strontium	0.522	Spike	P	0 - 20
2399727	Tin	0.662	Spike	P	0 - 20
2399727	Titanium	0.0241	Spike	P	0 - 20
2399727	Vanadium	0.566	Spike	P	0 - 20
2399727	Zinc	0.0493	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P428416

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399727	Aluminum	2.66	Spike	P	0 - 20
2399727	Antimony	0.777	Spike	P	0 - 20
2399727	Arsenic	0.522	Spike	P	0 - 20
2399727	Barium	0.419	Spike	P	0 - 20
2399727	Beryllium	2.98	Spike	P	0 - 20
2399727	Boron	0.362	Spike	P	0 - 20
2399727	Cadmium	1.11	Spike	P	0 - 20
2399727	Chromium	0.535	Spike	P	0 - 20
2399727	Cobalt	1.52	Spike	P	0 - 20
2399727	Copper	1.53	Spike	P	0 - 20
2399727	Lead	0.638	Spike	P	0 - 20
2399727	Manganese	0.380	Spike	P	0 - 20
2399727	Molybdenum	0.361	Spike	P	0 - 20
2399727	Nickel	0.996	Spike	P	0 - 20
2399727	Selenium	1.94	Spike	P	0 - 20
2399727	Silver	0.688	Spike	P	0 - 20
2399727	Thallium	1.16	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428765

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399709	Chloride	0.280	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P428768

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399709	Sulfate	0.755	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P428789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399823	Ammonia-N	1.06	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P428475

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399576	Kjeldahl Nitrogen	1.40	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P428775

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399714	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P428552

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399742	Total-P	0.659	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P428379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399754	O-Phosphate-P	0.858	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P428317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399020	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	9.55	Spike	P	0 - 37
2399020	Acetochlor	8.01	Spike	P	0 - 28

Quality Assurance Report

Precision

Reference Method: EPA 8270E
Batch ID: P428317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399020	Alachlor	7.19	Spike	P	0 - 30
2399020	Ametryn	14.8	Spike	P	0 - 32
2399020	Atrazine	9.02	Spike	P	0 - 41
2399020	Atrazine Desethyl	1.39	Spike	P	0 - 36
2399020	Avobenzone	4.53	Spike	P	0 - 36
2399020	Azinphos Methyl	27.7	Spike	P	0 - 75
2399020	Azoxystrobin	1.68	Spike	P	0 - 39
2399020	Bromacil	10.9	Spike	P	0 - 33
2399020	Butylate	17.8	Spike	P	0 - 44
2399020	Caffeine	4.56	Spike	P	0 - 74
2399020	Carbophenothion	3.28	Spike	P	0 - 25
2399020	Carfentrazone Ethyl	25.9	Spike	P	0 - 27
2399020	Chlorfenapyr	1.78	Spike	P	0 - 24
2399020	Chlorpyrifos Ethyl	4.00	Spike	P	0 - 26
2399020	Chlorpyrifos Methyl	1.86	Spike	P	0 - 26
2399020	Coumaphos	7.84	Spike	P	0 - 28
2399020	Cyanazine	17.2	Spike	P	0 - 48
2399020	Cyprodinil	4.09	Spike	P	0 - 29
2399020	Dechlorane 602	7.56	Spike	P	0 - 30
2399020	Dechlorane 603	7.46	Spike	P	0 - 30
2399020	Dechlorane Plus	33.0	Spike	F	0 - 30
2399020	Demeton	2.48	Spike	P	0 - 33
2399020	Diazinon	4.87	Spike	P	0 - 29
2399020	Difenoconazole	7.61	Spike	P	0 - 34
2399020	Dimethenamid	0.334	Spike	P	0 - 39
2399020	Dimethomorph	20.5	Spike	P	0 - 51
2399020	Disulfoton	4.40	Spike	P	0 - 30
2399020	Dithiopyr	0.823	Spike	P	0 - 26
2399020	EPTC	0.447	Spike	P	0 - 43
2399020	Ethion	0.718	Spike	P	0 - 79
2399020	Ethoprop	10.9	Spike	P	0 - 29
2399020	Etridiazole	6.57	Spike	P	0 - 33
2399020	Fenamiphos	5.97	Spike	P	0 - 40
2399020	Fenbuconazole	4.18	Spike	P	0 - 74
2399020	Fipronil	16.7	Spike	P	0 - 29
2399020	Fipronil Desulfinyl	4.21	Spike	P	0 - 32
2399020	Fipronil Sulfide	19.1	Spike	P	0 - 30
2399020	Fipronil Sulfone	6.70	Spike	P	0 - 33
2399020	Fluazifop-P-butyl	5.18	Spike	P	0 - 38
2399020	Fludioxonil	19.2	Spike	P	0 - 29
2399020	Flumioxazin	8.65	Spike	P	0 - 51
2399020	Flutolanil	4.41	Spike	P	0 - 25
2399020	Fluxapyroxad	26.3	Spike	P	0 - 45
2399020	Fonofos	1.86	Spike	P	0 - 27
2399020	Hexabromobenzene	3.28	Spike	P	0 - 30
2399020	Hexazinone	4.09	Spike	P	0 - 30
2399020	Imazalil	7.57	Spike	P	0 - 100
2399020	Iprodione	13.6	Spike	P	0 - 33
2399020	Loratadine	11.9	Spike	P	0 - 56
2399020	Malathion	8.41	Spike	P	0 - 37
2399020	Metalaxyl	19.0	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P428317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399020	Metolachlor	17.3	Spike	P	0 - 29
2399020	Metribuzin	8.48	Spike	P	0 - 45
2399020	Mevinphos	9.71	Spike	P	0 - 29
2399020	Molinate	6.05	Spike	P	0 - 33
2399020	Myclobutanil	3.27	Spike	P	0 - 26
2399020	Naled	2.18	Spike	P	0 - 37
2399020	Napropamide	10.4	Spike	P	0 - 44
2399020	Norflurazon	0.701	Spike	P	0 - 30
2399020	Octinoxate	5.23	Spike	P	0 - 45
2399020	Oxadiazon	30.2	Spike	F	0 - 28
2399020	Oxybenzone	7.44	Spike	P	0 - 46
2399020	Oxyfluorfen	14.5	Spike	P	0 - 28
2399020	Parathion Ethyl	6.25	Spike	P	0 - 31
2399020	Parathion Methyl	4.74	Spike	P	0 - 29
2399020	PBB-153	4.20	Spike	P	0 - 30
2399020	PBDE-47	1.81	Spike	P	0 - 36
2399020	PBDE-99	3.86	Spike	P	0 - 40
2399020	Pendimethalin	1.11	Spike	P	0 - 33
2399020	Pentabromotoluene	7.57	Spike	P	0 - 30
2399020	Phenytoin	25.5	Spike	P	0 - 100
2399020	Phorate	5.13	Spike	P	0 - 36
2399020	Prodiamine	35.4	Spike	P	0 - 71
2399020	Prometon	10.4	Spike	P	0 - 36
2399020	Prometryn	6.99	Spike	P	0 - 28
2399020	Pronamide	2.32	Spike	P	0 - 24
2399020	Propanil	25.7	Spike	P	0 - 28
2399020	Propargite	14.3	Spike	P	0 - 43
2399020	Propiconazole	7.38	Spike	P	0 - 33
2399020	Pyraflufen Ethyl	9.77	Spike	P	0 - 29
2399020	Pyridaben	25.6	Spike	P	0 - 30
2399020	Pyriproxyfen	27.4	Spike	P	0 - 79
2399020	Simazine	1.36	Spike	P	0 - 29
2399020	Stirophos	12.5	Spike	P	0 - 61
2399020	Sulfentrazone	1.49	Spike	P	0 - 33
2399020	Tebuconazole	5.09	Spike	P	0 - 69
2399020	Terbufos	14.5	Spike	P	0 - 29
2399020	Terbuthylazine	7.13	Spike	P	0 - 32
2399020	Tetradecachloro-m-terphenyl	5.48	Spike	P	0 - 30
2399020	Thiobencarb	2.29	Spike	P	0 - 26
2399020	Tri-o-cresyl Phosphate	3.67	Spike	P	0 - 33
2399020	Triadimefon	6.41	Spike	P	0 - 28
2399020	Tris(1-chloro-2-propyl) phosphate (TCPP)	7.34	Spike	P	0 - 30
2399020	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	3.14	Spike	P	0 - 30
2399020	Tris(2-chloroethyl) phosphate (TCEP)	7.02	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P428312

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399392	Acesulfame K	0.734	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P428312

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399392	AMPA	0.933	Spike	P	0 - 30
2399392	Endothall	2.21	Spike	P	0 - 30
2399392	Glufosinate	3.67	Spike	P	0 - 30
2399392	Glyphosate	2.04	Spike	P	0 - 30
2399392	Sucralose	3.51	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P428433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399997	2,4-D	3.19	Spike	P	0 - 30
2399997	2,4,5-T	4.27	Spike	P	0 - 30
2399997	Acetaminophen	0.756	Spike	P	0 - 30
2399997	Acetamiprid	11.2	Spike	P	0 - 30
2399997	Afidopyropen	8.09	Spike	P	0 - 30
2399997	Bentazon	15.7	Spike	P	0 - 30
2399997	Benzovindiflupyr	7.52	Spike	P	0 - 30
2399997	Carbamazepine	3.77	Spike	P	0 - 30
2399997	Clothianidin	2.22	Spike	P	0 - 30
2399997	Dinotefuran	0.350	Spike	P	0 - 30
2399997	Diuron	0.710	Spike	P	0 - 30
2399997	Fenuron	5.54	Spike	P	0 - 30
2399997	Fluridone	17.7	Spike	P	0 - 30
2399997	Hydrocodone	4.08	Spike	P	0 - 30
2399997	Ibuprofen	10.2	Spike	P	0 - 30
2399997	Imazapyr	1.33	Spike	P	0 - 30
2399997	Imidacloprid	2.33	Spike	P	0 - 30
2399997	Linuron	9.50	Spike	P	0 - 30
2399997	Mandestrobin	5.91	Spike	P	0 - 30
2399997	MCP	15.0	Spike	P	0 - 30
2399997	Naproxen	11.3	Spike	P	0 - 30
2399997	Primidone	11.3	Spike	P	0 - 30
2399997	Pyraclostrobin	2.87	Spike	P	0 - 30
2399997	Silvex	6.71	Spike	P	0 - 30
2399997	Thiamethoxam	8.31	Spike	P	0 - 30
2399997	Tolfenpyrad	12.8	Spike	P	0 - 30
2399997	Triclopyr	5.12	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P428510

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399660	Total Alkalinity	0.0847	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P428904

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

Reference Method: SM 2540 C-2015
Batch ID: P428904

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399464	TDS	5.71	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P428928

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399662	Fluoride	0.470	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P428606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2399831	Organic Carbon	0.427	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2399765

Field Sample ID: G3NW0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	74.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.0	P	30 - 160
EPA 8321B	Diuron-d6	79.3	P	30 - 160
EPA 8321B	Endothall-d6	89.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	89.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	57.6	P	30 - 160
EPA 8321B	Primidone-d5	84.7	P	30 - 160
EPA 8321B	Sucralose-d6	90.9	P	30 - 160

Lab Sample ID: 2399767

Field Sample ID: G3NW0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	130	P	20 - 200
EPA 8270E	Simazine-d10	110	P	62 - 142
EPA 8270E	Terbufos-d10	65.2	P	58 - 132
EPA 8270E	Terphenyl-d14	82.5	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A118532

Included Lab Sample IDs: 2399761

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	96.0	97.5	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A118536

Included Lab Sample IDs: 2399759

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	103	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A118537

Included Lab Sample IDs: 2399759

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	98.0	P/P	95 - 105

Reference Method: SM 2320 B-2011

Run ID: A118577

Included Lab Sample IDs: 2399759

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.8	95.9	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118594

Included Lab Sample IDs: 2399766

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.0	99.6	P/P	90 - 110
Antimony	102	102	P/P	90 - 110
Arsenic	98.5	98.5	P/P	90 - 110
Barium	98.6	99.9	P/P	90 - 110
Beryllium	96.4	94.3	P/P	90 - 110
Boron	96.4	98.9	P/P	90 - 110
Cadmium	99.1	99.6	P/P	90 - 110
Chromium	97.7	96.6	P/P	90 - 110
Cobalt	99.6	98.3	P/P	90 - 110
Copper	96.3	97.2	P/P	90 - 110
Lead	100	99.6	P/P	90 - 110
Manganese	97.8	96.6	P/P	90 - 110
Molybdenum	97.1	97.8	P/P	90 - 110
Nickel	97.7	97.5	P/P	90 - 110
Selenium	100	99.5	P/P	90 - 110
Silver	99.8	99.6	P/P	90 - 110
Thallium	99.5	99.6	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A118600

Included Lab Sample IDs: 2399767

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

Reference Method: EPA 8270E
Run ID: A118600
Included Lab Sample IDs: 2399767

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.9		P	80 - 120
Avobenzene	97.4		P	80 - 120
Dechlorane 602	103		P	80 - 120
Dechlorane 603	104		P	80 - 120
Dechlorane Plus	102		P	80 - 120
Hexabromobenzene	99.8		P	80 - 120
Octinoxate	93.3		P	80 - 120
Oxybenzone	94.3		P	80 - 120
PBB-153	96.7		P	80 - 120
PBDE-47	93.5		P	80 - 120
PBDE-99	95.4		P	80 - 120
Pentabromotoluene	97.5		P	80 - 120
Tetradecachloro-m-terphenyl	99.9		P	80 - 120
Tri-o-cresyl Phosphate	98.0		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	94.8		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.2		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	98.6		P	80 - 120

Reference Method: EPA 8321B
Run ID: A118606
Included Lab Sample IDs: 2399765

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	99.5	99.0	P/P	60 - 160
Sucralose	90.3	98.6	P/P	60 - 160

Reference Method: EPA 8270E
Run ID: A118620
Included Lab Sample IDs: 2399767

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.3		P	80 - 120
Alachlor	89.9		P	80 - 120
Ametryn	90.8		P	80 - 120
Atrazine	104		P	80 - 120
Atrazine Desethyl	104		P	80 - 120
Azinphos Methyl	98.0		P	80 - 120
Azoxystrobin	97.1		P	80 - 120
Bromacil	104		P	80 - 120
Butylate	94.5		P	80 - 120
Caffeine	98.0		P	80 - 120
Carbophenothion	92.7		P	80 - 120
Carfentrazone Ethyl	86.7		P	80 - 120
Chlorfenapyr	92.3		P	80 - 120
Chlorpyrifos Ethyl	103		P	80 - 120
Chlorpyrifos Methyl	99.3		P	80 - 120
Coumaphos	80.3		P	80 - 120
Cyanazine	94.5		P	80 - 120
Cyprodinil	107		P	80 - 120
Demeton	96.1		P	80 - 120
Diazinon	105		P	80 - 120

Quality Assurance Report

Calibration Verification

Reference Method: EPA 8270E
 Run ID: A118620
 Included Lab Sample IDs: 2399767

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Difenoconazole	93.1		P	80 - 120
Dimethenamid	94.5		P	80 - 120
Dimethomorph	85.5		P	80 - 120
Disulfoton	106		P	80 - 120
Dithiopyr	92.2		P	80 - 120
EPTC	91.4		P	80 - 120
Ethion	87.5		P	80 - 120
Ethoprop	98.8		P	80 - 120
Etridiazole	90.4		P	80 - 120
Fenamiphos	102		P	80 - 120
Fenbuconazole	89.8		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	102		P	80 - 120
Fipronil Sulfone	89.4		P	80 - 120
Fluazifop-P-butyl	103		P	80 - 120
Fludioxonil	104		P	80 - 120
Flumioxazin	80.2		P	80 - 120
Flutolanil	103		P	80 - 120
Fluxapyroxad	82.2		P	80 - 120
Fonofos	96.7		P	80 - 120
Hexazinone	96.7		P	80 - 120
Imazalil	97.1		P	80 - 120
Iprodione	81.7		P	80 - 120
Loratadine	93.8		P	80 - 120
Malathion	95.6		P	80 - 120
Metalaxyl	84.6		P	80 - 120
Metolachlor	99.7		P	80 - 120
Metribuzin	94.9		P	80 - 120
Mevinphos	93.9		P	80 - 120
Molinate	109		P	80 - 120
Myclobutanil	94.4		P	80 - 120
Naled	97.2		P	80 - 120
Napropamide	110		P	80 - 120
Norflurazon	94.4		P	80 - 120
Oxadiazon	109		P	80 - 120
Oxyfluorfen	87.2		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	97.5		P	80 - 120
Phenytoin	95.9		P	80 - 120
Phorate	108		P	80 - 120
Prodiamine	85.9		P	80 - 120
Prometon	95.5		P	80 - 120
Prometryn	88.3		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	94.2		P	80 - 120
Propargite	86.1		P	80 - 120
Propiconazole	99.7		P	80 - 120
Pyraflufen Ethyl	114		P	80 - 120
Pyridaben	81.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118620
Included Lab Sample IDs: 2399767

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyriproxyfen	103		P	80 - 120
Simazine	106		P	80 - 120
Stirophos	103		P	80 - 120
Sulfentrazone	84.9		P	80 - 120
Tebuconazole	95.9		P	80 - 120
Terbufos	106		P	80 - 120
Terbuthylazine	96.7		P	80 - 120
Thiobencarb	99.9		P	80 - 120
Triadimefon	83.9		P	80 - 120

Reference Method: EPA 8321B
Run ID: A118625
Included Lab Sample IDs: 2399765

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	120	113	P/P	60 - 160
Endothall	98.5	95.7	P/P	60 - 160
Glufosinate	106	98.4	P/P	60 - 160
Glyphosate	116	113	P/P	60 - 160

Reference Method: SM 5310 B-2011
Run ID: A118628
Included Lab Sample IDs: 2399760

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.7	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A118632
Included Lab Sample IDs: 2399760

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	107	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A118633
Included Lab Sample IDs: 2399760

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A118641
Included Lab Sample IDs: 2399759

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.6	97.9	P/P	90 - 110
Sulfate	99.4	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A118667

Included Lab Sample IDs: 2399766

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	103	P/P	90 - 110
Iron	105	105	P/P	90 - 110
Magnesium	105	105	P/P	90 - 110
Potassium	103	103	P/P	90 - 110
Sodium	102	102	P/P	90 - 110
Strontium	99.7	101	P/P	90 - 110
Tin	99.7	101	P/P	90 - 110
Titanium	97.6	100	P/P	90 - 110
Vanadium	99.7	100	P/P	90 - 110
Zinc	99.9	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A118686

Included Lab Sample IDs: 2399760

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A118690

Included Lab Sample IDs: 2399760

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.2	98.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A118753

Included Lab Sample IDs: 2399759

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

Reference Method: EPA 8321B

Run ID: A118768

Included Lab Sample IDs: 2399765

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.9	92.0	P/P	50 - 150
2,4,5-T	96.6	83.4	P/P	50 - 150
Acetaminophen	86.9	90.7	P/P	60 - 160
Acetamiprid	111	115	P/P	50 - 150
Afidopyropen	127	87.6	P/P	50 - 150
Bentazon	112	102	P/P	50 - 160
Benzovindiflupyr	100	103	P/P	50 - 150
Carbamazepine	100	98.5	P/P	60 - 150
Clothianidin	97.7	94.4	P/P	60 - 150
Dinotefuran	93.7	98.2	P/P	50 - 150
Diuron	141	123	P/P	60 - 160
Fenuron	99.3	101	P/P	60 - 150
Fluridone	98.7	90.5	P/P	60 - 160
Hydrocodone	110	107	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A118768
Included Lab Sample IDs: 2399765

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ibuprofen	77.5	71.8	P/P	50 - 160
Imazapyr	107	106	P/P	50 - 150
Imidacloprid	102	96.8	P/P	60 - 150
Linuron	86.3	87.4	P/P	60 - 150
Mandestrobin	111	103	P/P	50 - 150
MCPP	94.8	102	P/P	50 - 150
Naproxen	134	64.4	P/P	50 - 160
Primidone	103	101	P/P	60 - 150
Pyraclostrobin	105	106	P/P	60 - 150
Silvex	96.4	106	P/P	50 - 150
Thiamethoxam	102	105	P/P	50 - 150
Tolfenpyrad	98.4	102	P/P	60 - 150
Triclopyr	83.3	93.2	P/P	50 - 150

* 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)	102				1.62	
EPA 180.1 Rev. 2.0	Turbidity	98.0				1.16	
EPA 200.7 Rev. 4.4	Calcium	104	105	104	103		0.336
	Iron	103	106	104	105		2.09
	Magnesium	105	109	106	106		1.96
	Potassium	103	107	108	102		0.0936
	Sodium	105	105	105	103		0.528
	Strontium	101	102	101	100		0.522
	Tin	105	101	102	101		0.662
	Titanium	102	101	101	102		0.0241
	Vanadium	104	103	102	102		0.566
	Zinc	106	104	104	103		0.0493
EPA 200.8 Rev. 5.4	Aluminum	101	98.7	102	100		2.66
	Antimony	104	103	104	104		0.777
	Arsenic	101	99.6	100	102		0.522
	Barium	104	102	103	101		0.419
	Beryllium	94.7	91.3	94.2	95.3		2.98
	Boron	98.8	102	102	104		0.362
	Cadmium	102	104	102	102		1.11
	Chromium	101	98.0	98.6	98.5		0.535
	Cobalt	105	101	103	102		1.52
	Copper	103	99.5	101	99.7		1.53
	Lead	102	103	104	104		0.638
	Manganese	99.2	100	101	98.0		0.380
	Molybdenum	100	100	100	102		0.361
	Nickel	103	101	102	101		0.996
	Selenium	99.7	96.0	97.9	97.6		1.94
	Silver	103	102	103	101		0.688
	Thallium	101	101	102	102		1.16
EPA 300.0 Rev. 2.1	Chloride	100	102	102		0.280	
	Sulfate	101	102	101		0.755	
EPA 350.1 Rev. 2.0	Ammonia-N	97.2	102	100			1.06
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	99.2	101			1.40
EPA 353.2 Rev. 2.0	NO2NO3-N	102	100	100			0.0
EPA 365.1 Rev. 2.0	Total-P	100	102	103			0.659
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.8	93.6	92.8			0.858
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.8	77.7	85.5			9.55
	Acetochlor	92.6	67.1	72.7			8.01
	Alachlor	88.3	95.6	103			7.19
	Ametryn	132	153	186			14.8
	Atrazine	107					9.02
	Atrazine Desethyl	107	74.9	73.1			1.39
	Avobenzone	116	112	118			4.53
	Azinphos Methyl	67.0	62.2	82.2			27.7
	Azoxystrobin	103					1.68
	Bromacil	104	88.4	98.6			10.9
	Butylate	53.4	32.3	38.7			17.8
	Caffeine	93.0	90.7	96.4			4.56
	Carbophenothion	86.5	63.3	65.4			3.28
	Carfentrazone Ethyl	119	97.3	126			25.9
	Chlorfenapyr	96.6	75.7	74.3			1.78
	Chlorpyrifos Ethyl	78.9	65.6	68.2			4.00

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Chlorpyrifos Methyl	77.0	74.1	75.5		1.86
	Coumaphos	79.7	69.7	75.4		7.84
	Cyanazine	190	179	213		17.2
	Cyprodinil	96.5	41.2	47.9		4.09
	Dechlorane 602	99.9	89.6	96.7		7.56
	Dechlorane 603	103	95.3	103		7.46
	Dechlorane Plus	99.4	67.3	93.9		33.0
	Demeton	67.7	96.6	94.2		2.48
	Diazinon	99.7	111	106		4.87
	Difenoconazole	82.0	60.6	72.8		7.61
	Dimethenamid	93.0	92.8	92.5		0.334
	Dimethomorph	90.7	105	129		20.5
	Disulfoton	71.7	73.3	76.6		4.40
	Dithiopyr	89.7	88.2	89.1		0.823
	EPTC	54.8	40.0	40.2		0.447
	Ethion	75.4	63.4	63.9		0.718
	Ethoprop	71.6	78.2	87.2		10.9
	Etridiazole	64.5	60.4	56.6		6.57
	Fenamiphos	116	73.8	69.5		5.97
	Fenbuconazole	118	94.7	98.7		4.18
	Fipronil	104				16.7
	Fipronil Desulfinyl	83.3				4.21
	Fipronil Sulfide	86.6				19.1
	Fipronil Sulfone	96.0				6.70
	Fluazifop-P-butyl	117	96.5	102		5.18
	Fludioxonil	120				19.2
	Flumioxazin	134	108	118		8.65
	Flutolanil	85.2	84.8	81.2		4.41
	Fluxapyroxad	97.3	151	116		26.3
	Fonofos	108	106	108		1.86
	Hexabromobenzene	126	128	132		3.28
	Hexazinone	97.0	94.5	90.7		4.09
	Imazalil	105	85.9	92.6		7.57
	Iprodione	87.3	70.3	61.3		13.6
	Loratadine	75.5	85.5	75.9		11.9
	Malathion	100	86.3	79.3		8.41
	Metalaxyl	93.2	120	160		19.0
	Metolachlor	108				17.3
	Metribuzin	101				8.48
	Mevinphos	62.7	57.6	63.5		9.71
	Molinate	72.8	68.8	73.1		6.05
	Myclobutanil	119	88.2	85.4		3.27
	Naled	60.9	64.8	63.4		2.18
	Napropamide	85.4	89.0	79.1		10.4
	Norflurazon	127	83.9	83.3		0.701
	Octinoxate	92.1	91.2	96.1		5.23
	Oxadiazon	101				30.2
	Oxybenzone	89.1	80.7	86.9		7.44
	Oxyfluorfen	116				14.5
	Parathion Ethyl	86.2	92.6	98.6		6.25
	Parathion Methyl	105	90.9	95.3		4.74
	PBB-153	108	95.2	99.3		4.20
	PBDE-47	85.7	80.0	81.5		1.81
	PBDE-99	86.7	77.3	80.3		3.86

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Pendimethalin	106	129	131		1.11
	Pentabromotoluene	109	109	118		7.57
	Phenytoin	97.3	102	79.0		25.5
	Phorate	79.3	109	103		5.13
	Prodiamine	52.4	91.0	61.5		35.4
	Prometon	87.4	82.0	90.9		10.4
	Prometryn	118	99.0	106		6.99
	Pronamide	108	106	104		2.32
	Propanil	90.2	114	87.9		25.7
	Propargite	103	93.0	80.5		14.3
	Propiconazole	93.4	86.4	80.2		7.38
	Pyraflufen Ethyl	110	124	112		9.77
	Pyridaben	136	173	134		25.6
	Pyriproxyfen	51.9	63.9	48.5		27.4
	Simazine	103	75.3	78.9		1.36
	Stiropfos	86.7	46.3	52.5		12.5
	Sulfentrazone	96.2	71.0	70.0		1.49
	Tebuconazole	68.6	52.7	50.1		5.09
	Terbufos	73.8	93.6	80.9		14.5
	Terbutylazine	88.6	79.9	85.9		7.13
	Tetradecachloro-m-terphenyl	143	143	151		5.48
	Thiobencarb	114	87.4	85.4		2.29
	Tri-o-cresyl Phosphate	107	106	110		3.67
	Triadimefon	95.2	85.0	79.7		6.41
	Tris(1-chloro-2-propyl) phosphate (TCPP)	87.4	84.4	90.8		7.34
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	84.1	80.4	83.0		3.14
	Tris(2-chloroethyl) phosphate (TCEP)	108	104	111		7.02
EPA 8321B	2,4-D	98.4	89.5	92.4		3.19
	2,4,5-T	84.6	103	108		4.27
	Acesulfame K	98.8	93.0	93.7		0.734
	Acetaminophen	69.2	94.4	95.1		0.756
	Acetamiprid	79.1	49.8	44.5		11.2
	Afidopyropen	58.0	72.9	79.0		8.09
	AMPA	118	118	117		0.933
	Bentazon	80.6				15.7
	Benzovindiflupyr	81.4	89.0	82.6		7.52
	Carbamazepine	78.5	57.5	59.8		3.77
	Clothianidin	82.7	73.2	74.9		2.22
	Dinotefuran	88.1	49.4	49.6		0.350
	Diuron	99.6	71.7	71.2		0.710
	Endothall	89.3	96.7	98.9		2.21
	Fenuron	79.1	38.4	40.6		5.54
	Fluridone	64.9	69.0	57.7		17.7
	Glufosinate	98.7	95.9	99.4		3.67
	Glyphosate	124	110	107		2.04
	Hydrocodone	83.7	46.2	44.4		4.08
	Ibuprofen	59.7	61.7	55.7		10.2
	Imazapyr	87.2	71.1	68.9		1.33
	Imidacloprid	82.3	99.4	102		2.33
	Linuron	70.3	74.8	68.0		9.50
	Mandestrobin	83.2	89.1	83.9		5.91

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
EPA 8321B	MCP	96.8	104	121			15.0
	Naproxen	66.0	66.7	59.6			11.3
	Primidone	83.8	69.6	78.0			11.3
	Pyraclostrobin	74.4	80.2	77.9			2.87
	Silvex	100	114	106			6.71
	Sucralose	112	97.5	93.3			3.51
	Thiamethoxam	80.2	53.9	58.6			8.31
	Tolfenpyrad	53.0	49.2	55.9			12.8
	Triclopyr	95.8	123	117			5.12
SM 2320 B-2011	Total Alkalinity	95.5				0.0847	
SM 2540 C-2015	TDS	103				5.71	
SM 2540 D-2015	TSS	99.0					
SM 4500-F- C-2011	Fluoride	99.8	99.1	99.8			0.470
SM 5310 B-2011	Organic Carbon	97.0	92.2	92.7			0.427

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2399759
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2399759
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2399766
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2399766
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2399759
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2399759
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2399760
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2399760
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2399760
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2399760
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2399761
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2399767
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2399767
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2399765
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2399759
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2399766
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2399759
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2399759
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2399759
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2399760

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	04/12/2023			04/12/2023 15:38	Alexis Price	2399759
EPA 180.1 Rev. 2.0	04/12/2023			04/12/2023 13:53	Khloe J Berg	2399759
EPA 200.7 Rev. 4.4	04/12/2023	04/13/2023 11:25	George D Taylor	04/19/2023 21:17	McKinley C Carter	2399766
EPA 200.8 Rev. 5.4	04/12/2023	04/13/2023 11:25	George D Taylor	04/14/2023 18:48	Conrad Hartmann	2399766
EPA 300.0 Rev. 2.1	04/12/2023			04/19/2023 23:06	James L Waggeberby	2399759
EPA 350.1 Rev. 2.0	04/12/2023			04/20/2023 11:53	Khloe J Berg	2399760
EPA 351.2 Rev. 2.0	04/12/2023	04/14/2023 11:34	Simonne.V. Calhoun	04/18/2023 10:57	Samantha L Bates	2399760
EPA 353.2 Rev. 2.0	04/12/2023			04/20/2023 10:57	Beverly Y. Sanders	2399760
EPA 365.1 Rev. 2.0	04/12/2023	04/17/2023 18:31	Adam P Silver	04/18/2023 12:29	James L Waggeberby	2399760
EPA 365.1 Rev. 2.0 dissolved	04/12/2023			04/12/2023 14:28	Elise M. Gillis	2399761
EPA 8270E	04/12/2023	04/13/2023 08:30	Rasheda Ghaffari	04/15/2023 01:00	Vandana T. Nagar	2399767
	04/12/2023	04/13/2023 08:30	Rasheda Ghaffari	04/16/2023 01:06	Arthur Maknenko	2399767
EPA 8321B	04/12/2023	04/14/2023 09:00	Hoor Shaik	04/18/2023 10:25	Juyoung Kim	2399765
	04/12/2023	04/14/2023 10:00	Manjita Shrestha	04/14/2023 13:41	Manjita Shrestha	2399765
	04/12/2023	04/14/2023 10:00	Manjita Shrestha	04/15/2023 07:06	Manjita Shrestha	2399765
SM 2320 B-2011	04/12/2023			04/14/2023 04:22	Dale L. Simmons	2399759
SM 2340 B-2011	04/12/2023			04/19/2023 21:17	McKinley C Carter	2399766
SM 2540 C-2015	04/12/2023			04/14/2023 15:46	Yijie Li	2399759
SM 2540 D-2015	04/12/2023			04/14/2023 15:46	Yijie Li	2399759
SM 4500-F- C-2011	04/12/2023			04/24/2023 17:45	Dale L. Simmons	2399759
SM 5310 B-2011	04/12/2023			04/17/2023 17:45	Elise M. Gillis	2399760