

Chemical Analysis Report

NW-DIST-2022-06-23-01

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

Event Description: **LVI Only**
Request ID: **RQ-2022-06-20-43**
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 K Butler

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
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Phone (850) 245-8085

Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 18-JUL-2022 16:35



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: Kings Lake

Collection Date/Time: 06/21/2022 13:00

Field ID: G4NW0537

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336736	DEP SOP: NU-094-1	Color (true)	13	JY	PCU	P415682	
	EPA 180.1 Rev. 2.0	Turbidity	1.5	Y	NTU	P415668	
	EPA 300.0 Rev. 2.1	Chloride	3.3		mg Cl/L	P415944	
		Sulfate	0.78	Y	mg SO4/L	P415949	
	SM 2320 B-2011	Total Alkalinity	2.3	IY	mg CaCO3/L	P415954	
	SM 2540 C-2011	TDS	15	UY	mg/L	P415904	
	SM 2540 D-2011	TSS	2	UY	mg/L	P415893	
	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P415962	
2336737	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	UY	mg N/L	P415994	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.46	Y	mg N/L	P415871	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	UY	mg N/L	P416343	
	EPA 365.1 Rev. 2.0	Total-P	0.009	Y	mg P/L	P415934	
	SM 5310 B-2011	Organic Carbon	4.5	Y	mg C/L	P415856	
2336738	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	UY	mg P/L	P415604	
2336740	EPA 8321B	Acesulfame K	0.10	UY	ug/L	P415602	
		2,4-D	0.0062	IY	ug/L	P415828	
		AMPA	0.10	UY	ug/L	P415602	
		2,4,5-T	0.0040	UYJ	ug/L	P415828	MS
		Acetaminophen	0.0080	UY	ug/L	P415828	
		Endothall	0.25	UY	ug/L	P415602	
		Acetamiprid	0.0020	UY	ug/L	P415828	
		Glufosinate	0.10	UY	ug/L	P415602	
		Glyphosate	0.10	UY	ug/L	P415602	
		Afidopyropen	0.0020	UY	ug/L	P415828	
		Sucralose	0.34	Y	ug/L	P415602	
		Bentazon	8.0E-04	UY	ug/L	P415828	
		Benzovindiflupyr	0.0020	UY	ug/L	P415828	
		Carbamazepine	8.0E-04	UY	ug/L	P415828	
		Clothianidin	0.0020	UY	ug/L	P415828	
		Dinotefuran	0.0020	UY	ug/L	P415828	
		Diuron	0.0020	UY	ug/L	P415828	
		Fenuron	0.032	UY	ug/L	P415828	
		Fluridone	8.0E-04	UY	ug/L	P415828	
		Imazapyr	0.0040	UY	ug/L	P415828	
		Hydrocodone	0.0020	UY	ug/L	P415828	
		Ibuprofen	0.080	UY	ug/L	P415828	
		Imidacloprid	0.0020	UY	ug/L	P415828	
		Linuron	0.0040	UY	ug/L	P415828	
		Mandestrobin	0.0020	UY	ug/L	P415828	
		MCPP	0.0040	UY	ug/L	P415828	
		Naproxen	0.0080	UY	ug/L	P415828	
		Primidone	0.0040	UY	ug/L	P415828	
		Pyraclostrobin	0.0020	UY	ug/L	P415828	

Field ID: G4NW0537

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336740	EPA 8321B	Silvex	0.0040	UY	ug/L	P415828	
		Thiamethoxam	0.0020	UY	ug/L	P415828	
		Tolfenpyrad	0.0020	UY	ug/L	P415828	
		Triclopyr	0.0040	UY	ug/L	P415828	
2336741	EPA 200.7 Rev. 4.4	Calcium	0.93		mg/L	P415695	
		Iron	74	I	ug/L	P415695	
		Magnesium	0.52		mg/L	P415695	
		Potassium	0.30	U	mg/L	P415695	
		Sodium	1.8	I	mg/L	P415695	
		Strontium	2.6	I	ug/L	P415695	
		Tin	3.0	U	ug/L	P415695	
		Titanium	0.75	U	ug/L	P415695	
		Vanadium	2.0	U	ug/L	P415695	
		Zinc	5.0	U	ug/L	P415695	
	EPA 200.8 Rev. 5.4	Aluminum	10	I	ug/L	P415695	
		Antimony	0.050	U	ug/L	P415695	
		Arsenic	1.31		ug/L	P415695	
		Barium	2.79		ug/L	P415695	
		Beryllium	0.010	U	ug/L	P415695	
		Boron	12.6		ug/L	P415695	
		Cadmium	0.020	U	ug/L	P415695	
		Chromium	0.40	U	ug/L	P415695	
		Cobalt	0.020	U	ug/L	P415695	
		Copper	0.40	U	ug/L	P415695	
		Lead	0.20	U	ug/L	P415695	
		Manganese	8.14		ug/L	P415695	
		Molybdenum	0.15	U	ug/L	P415695	
		Nickel	0.50	U	ug/L	P415695	
		Selenium	0.20	U	ug/L	P415695	
		Silver	0.010	U	ug/L	P415695	
		Thallium	0.10	U	ug/L	P415695	
		Hardness	4.5		mg/L	P415695	
2336742	SM 2340 B-2011	Oxybenzone**	11	UY	ng/L	P415844	
	EPA 8270E	Acetochlor	0.27	UY	ng/L	P415844	
		Octinoxate**	23	IY	ng/L	P415844	
		Alachlor	0.27	UY	ng/L	P415844	
		Avobenzone**	110	UY	ng/L	P415844	
		Ametryn	0.65	UY	ng/L	P415844	
		Atrazine	4.9	Y	ng/L	P415844	
		PBDE-47**	4.3	UY	ng/L	P415844	
		Atrazine Desethyl	1.6	UY	ng/L	P415844	
		PBDE-99**	5.4	UY	ng/L	P415844	
		Azinphos Methyl	2.2	UY	ng/L	P415844	
		Tri-o-cresyl Phosphate**	6.5	UY	ng/L	P415844	
		Azoxystrobin	0.54	UY	ng/L	P415844	

Field ID: G4NW0537

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336742	EPA 8270E	Bromacil	0.54	UY	ng/L	P415844	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	13	UY	ng/L	P415844	
		Butylate	0.43	UY	ng/L	P415844	
		Caffeine**	8.2	UY	ng/L	P415844	
		Carbophenothion	0.22	UY	ng/L	P415844	
		Carfentrazone Ethyl	0.11	UY	ng/L	P415844	
		Chlorfenapyr	0.19	UY	ng/L	P415844	
		Chlorpyrifos Ethyl	0.27	UY	ng/L	P415844	
		Chlorpyrifos Methyl	0.054	UY	ng/L	P415844	
		Coumaphos	0.54	UY	ng/L	P415844	
		Cyanazine	3.5	UY	ng/L	P415844	
		Cyprodinil	0.11	UY	ng/L	P415844	
		Demeton	1.6	UY	ng/L	P415844	
		Diazinon	0.14	UY	ng/L	P415844	
		Difenoconazole	0.65	UY	ng/L	P415844	
		Dimethenamid	0.13	IY	ng/L	P415844	
		Dimethomorph	0.19	UY	ng/L	P415844	
		Disulfoton	0.54	UY	ng/L	P415844	
		Dithiopyr	0.19	UY	ng/L	P415844	
		EPTC	1.4	UY	ng/L	P415844	
		Ethion	0.16	UY	ng/L	P415844	
		Ethoprop	0.11	UY	ng/L	P415844	
		Etridiazole	0.16	UYJ	ng/L	P415844	MS
		Fenamiphos	0.54	UY	ng/L	P415844	
		Fenbuconazole	0.14	UY	ng/L	P415844	
		Fipronil	0.27	UY	ng/L	P415844	
		Fipronil Desulfinyl**	0.14	UY	ng/L	P415844	
		Fipronil Sulfide	0.16	UY	ng/L	P415844	
		Fipronil Sulfone	0.16	UY	ng/L	P415844	
		Fluazifop-P-butyl	0.11	UY	ng/L	P415844	
		Fludioxonil	0.14	UY	ng/L	P415844	
		Flumioxazin	1.9	UY	ng/L	P415844	
		Flutolanil	0.11	UY	ng/L	P415844	
		Fluxapyroxad	0.11	UY	ng/L	P415844	
		Fonofos	0.22	UY	ng/L	P415844	
		Hexazinone	0.54	UY	ng/L	P415844	
		Imazalil	0.82	UY	ng/L	P415844	
		Iprodione	0.65	UY	ng/L	P415844	
		Loratadine**	0.11	UY	ng/L	P415844	
		Malathion	0.38	UY	ng/L	P415844	
		Metaxyl	0.82	UY	ng/L	P415844	
		Metolachlor	4.3	Y	ng/L	P415844	
		Metribuzin	2.7	UY	ng/L	P415844	
		Mevinphos	1.1	UY	ng/L	P415844	

Field ID: G4NW0537

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2336742	EPA 8270E	Molinate	0.33	UY	ng/L	P415844	
		Myclobutanil	0.27	UY	ng/L	P415844	
		Naled	1.6	UY	ng/L	P415844	
		Napropamide	0.43	UY	ng/L	P415844	
		Norflurazon	0.54	UY	ng/L	P415844	
		Oxadiazon	0.33	UY	ng/L	P415844	
		Oxyfluorfen	0.16	UY	ng/L	P415844	
		Parathion Ethyl	0.27	UY	ng/L	P415844	
		Parathion Methyl	0.60	UY	ng/L	P415844	
		Pendimethalin	1.1	UY	ng/L	P415844	
		Phenytol**	3.8	UY	ng/L	P415844	
		Phorate	0.57	UY	ng/L	P415844	
		Prodiamine	0.19	UY	ng/L	P415844	
		Prometon	0.98	UY	ng/L	P415844	
		Prometryn	0.22	UY	ng/L	P415844	
		Pronamide	0.16	UY	ng/L	P415844	
		Propanil	0.14	UY	ng/L	P415844	
		Propargite	1.6	UY	ng/L	P415844	
		Propiconazole	0.54	UY	ng/L	P415844	
		Pyraflufen Ethyl	0.27	UY	ng/L	P415844	
		Pyridaben	0.49	UY	ng/L	P415844	
		Pyriproxyfen	0.14	UY	ng/L	P415844	
		Simazine	0.54	UY	ng/L	P415844	
		Stirophos	0.14	UY	ng/L	P415844	
		Sulfentrazone	0.54	UY	ng/L	P415844	
		Tebuconazole	0.55	IY	ng/L	P415844	
		Terbufos	0.11	UY	ng/L	P415844	
		Terbutylazine	0.46	UY	ng/L	P415844	
		Thiobencarb	0.65	UY	ng/L	P415844	
		Triadimefon	0.27	UY	ng/L	P415844	

Ref. Method and Comment:

DEP SOP: NU-094-1: The result may be biased high because of analytical difficulties. Sample received outside of the acceptable temperature range. Please see NCR.

EPA 180.1 Rev. 2.0: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 300.0 Rev. 2.1: Sulfate: Sample received 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-2011: Sample received outside of the acceptable temperature range. Please see NCR.

SM 2540 D-2011: 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.

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: Sample received outside of the acceptable temperature range. Please see NCR.

EPA 8321B: Y - Sample was received with inadequate sample preservation; see NCR report.

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

EPA 8270E: Y - Due to improper preservation; see NCR report.

EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes. Y - Due to improper preservation; see NCR report.

Non-Conformance Report

NCR ID: 9433

Event(s)

NW-DIST-2022-06-23-01

Job(s)

Sample(s)

Test(s)

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.

Authorized by/Date: Kyle Klug 6/28/2022

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: P415682

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415668

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415695

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: P415695

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: P415944

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: P415949

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415994

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415871

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416343

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415934

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P415604

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

Reference Method: EPA 8270E
Batch ID: P415844

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: P415844

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
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	0.18	U	ng/L
Dithiopyr	0.18	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
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415844

Component	Result	Code	Units
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	1.8	U	ng/L
Flumioxazin	1.8	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	0.10	U	ng/L
Loratadine	0.10	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	2.5	U	ng/L
Metribuzin	2.5	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
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415844

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415844

Component	Result	Code	Units
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8321B

Batch ID: P415602

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: P415828

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	0.080	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	0.0040	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: SM 2320 B-2011

Batch ID: P415954

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2011
Batch ID: P415904

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P415893

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P415962

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P415856

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: P415682

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	104		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415668

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.1		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	104		P	85 - 115
Iron	102		P	85 - 115
Magnesium	104		P	85 - 115
Potassium	110		P	85 - 115
Sodium	102		P	85 - 115
Strontium	102		P	85 - 115
Tin	106		P	85 - 115
Titanium	103		P	85 - 115
Vanadium	94.3		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.7		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	98.7		P	85 - 115
Barium	103		P	85 - 115
Beryllium	97.4		P	85 - 115
Boron	98.3		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	97.2		P	85 - 115
Cobalt	100		P	85 - 115
Copper	97.0		P	85 - 115
Lead	94.7		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	100		P	85 - 115
Nickel	98.8		P	85 - 115
Selenium	94.4		P	85 - 115
Silver	99.1		P	85 - 115
Thallium	98.2		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415944

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415949

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415994

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415871

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416343

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415934

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P415604

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

Reference Method: EPA 8270E
Batch ID: P415844

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	74.4		P	50 - 150
Acetochlor	105		P	70 - 121
Alachlor	106		P	68 - 119
Ametryn	93.7		P	64 - 139
Atrazine	107		P	76 - 120
Atrazine Desethyl	79.8		P	44 - 126
Avobenzone	89.9		P	76 - 212
Azinphos Methyl	150		P	43 - 192
Azoxystrobin	134		P	36 - 224
Bromacil	75.9		P	52 - 121
Butylate	73.6		P	28 - 91.0
Caffeine	59.3		P	50 - 134
Carbophenothion	101		P	56 - 129
Carfentrazone Ethyl	103		P	60 - 141
Chlorfenapyr	57.2		P	56 - 115
Chlorpyrifos Ethyl	69.1		P	60 - 118

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P415844

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	76.4		P	68 - 119
Coumaphos	65.6		P	18 - 250
Cyanazine	110		P	61 - 250
Cyprodinil	83.2		P	55 - 145
Demeton	82.4		P	30 - 159
Diazinon	112		P	70 - 123
Difenoconazole	72.9		P	49 - 204
Dimethenamid	86.7		P	64 - 115
Dimethomorph	192		P	12 - 219
Disulfoton	86.4		P	44 - 125
Dithiopyr	99.5		P	64 - 115
EPTC	68.0		P	28 - 86.0
Ethion	69.6		P	33 - 125
Ethoprop	96.3		P	64 - 116
Etridiazole	86.1		P	34 - 91.0
Fenamiphos	61.0		P	12 - 127
Fenbuconazole	88.6		P	59 - 151
Fipronil	101		P	67 - 129
Fipronil Desulfinyl	106		P	65 - 127
Fipronil Sulfide	76.4		P	61 - 116
Fipronil Sulfone	99.0		P	55 - 117
Fluazifop-P-butyl	99.7		P	62 - 127
Fludioxonil	74.1		P	62 - 128
Flumioxazin	110		P	33 - 250
Flutolanil	84.7		P	56 - 127
Fluxapyroxad	48.4		P	45 - 128
Fonofos	70.2		P	62 - 111
Hexazinone	90.6		P	46 - 139
Imazalil	65.4		P	38 - 142
Iprodione	92.6		P	47 - 135
Loratadine	204		P	10 - 244
Malathion	83.6		P	61 - 139
Metaxyl	90.4		P	10 - 119
Metolachlor	79.3		P	65 - 118
Metribuzin	111		P	51 - 250
Mevinphos	91.2		P	53 - 121
Molinate	82.5		P	42 - 96.0
Myclobutanil	105		P	55 - 128
Naled	85.4		P	10 - 98.0
Napropamide	49.4		P	49 - 121
Norflurazon	87.2		P	61 - 126
Octinoxate	82.8		P	30 - 159
Oxadiazon	67.3		P	59 - 116
Oxybenzone	73.8		P	61 - 139
Oxyfluorfen	75.4		P	64 - 137
Parathion Ethyl	90.6		P	70 - 112
Parathion Methyl	126		P	76 - 133
PBDE-47	65.5		P	50 - 150
PBDE-99	59.8		P	50 - 150
Pendimethalin	114		P	52 - 117
Phenytoin	34.7		P	10 - 199
Phorate	74.5		P	48 - 121

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P415844

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Prodiamine	101		P	26 - 142
Prometon	79.9		P	43 - 123
Prometryn	81.3		P	66 - 127
Pronamide	110		P	75 - 121
Propanil	103		P	45 - 150
Propargite	161		P	42 - 208
Propiconazole	79.4		P	60 - 125
Pyraflufen Ethyl	91.4		P	70 - 138
Pyridaben	75.0		P	35 - 245
Pyriproxyfen	49.6		P	30 - 149
Simazine	101		P	72 - 125
Stiophos	87.1		P	29 - 164
Sulfentrazone	103		P	21 - 139
Tebuconazole	16.8		P	10 - 115
Terbufos	94.8		P	60 - 123
Terbuthylazine	93.4		P	72 - 115
Thiobencarb	107		P	31 - 139
Tri-o-cresyl Phosphate	79.6		P	50 - 150
Triadimefon	83.2		P	65 - 116

Reference Method: EPA 8321B
 Batch ID: P415602

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	82.0		P	40 - 150
AMPA	110		P	40 - 150
Endothall	64.1		P	40 - 150
Glufosinate	104		P	40 - 150
Glyphosate	97.3		P	40 - 150
Sucralose	103		P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P415828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	52.9		P	40 - 150
2,4,5-T	44.6		P	40 - 150
Acetaminophen	83.1		P	30 - 150
Acetamiprid	78.4		P	40 - 150
Afidopyropen	45.0		P	30 - 150
Bentazon	70.8		P	30 - 150
Benzovindiflupyr	87.2		P	40 - 150
Carbamazepine	83.5		P	40 - 150
Clothianidin	89.4		P	40 - 150
Dinotefuran	90.8		P	40 - 150
Diuron	66.8		P	40 - 150
Fenuron	90.2		P	40 - 150
Fluridone	80.6		P	40 - 150
Hydrocodone	81.9		P	40 - 150
Ibuprofen	60.5		P	40 - 150
Imazapyr	88.0		P	40 - 150
Imidacloprid	87.9		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P415828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Linuron	66.8		P	40 - 150
Mandestrobin	72.4		P	40 - 150
MCPP	69.4		P	40 - 150
Naproxen	42.9		P	40 - 150
Primidone	92.2		P	40 - 150
Pyraclostrobin	72.5		P	40 - 150
Silvex	42.7		P	40 - 150
Thiamethoxam	83.8		P	40 - 150
Tolfenpyrad	43.0		P	30 - 150
Triclopyr	51.2		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P415954

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

Reference Method: SM 4500-F- C-2011

Batch ID: P415962

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

Reference Method: SM 5310 B-2011

Batch ID: P415856

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P415695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336741	Calcium	103	102	P/P	80 - 120
2336741	Iron	104	104	P/P	80 - 120
2336741	Magnesium	105	104	P/P	80 - 120
2336741	Potassium	113	112	P/P	80 - 120
2336741	Sodium	103	102	P/P	80 - 120
2336741	Strontium	102	103	P/P	80 - 120
2336741	Tin	104	104	P/P	80 - 120
2336741	Titanium	103	103	P/P	80 - 120
2336741	Vanadium	94.6	93.9	P/P	80 - 120
2336741	Zinc	103	99.4	P/P	80 - 120
2336854	Calcium	98.6		P	80 - 120
2336854	Iron	106		P	80 - 120
2336854	Magnesium	103		P	80 - 120
2336854	Potassium	105		P	80 - 120
2336854	Sodium	101		P	80 - 120
2336854	Strontium	104		P	80 - 120
2336854	Tin	103		P	80 - 120
2336854	Titanium	102		P	80 - 120
2336854	Vanadium	95.2		P	80 - 120
2336854	Zinc	101		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P415695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336741	Aluminum	96.3	96.2	P/P	80 - 120
2336741	Antimony	98.4	98.7	P/P	80 - 120
2336741	Arsenic	94.4	95.2	P/P	80 - 120
2336741	Barium	100	100	P/P	80 - 120
2336741	Beryllium	96.0	95.7	P/P	80 - 120
2336741	Boron	100	101	P/P	80 - 120
2336741	Cadmium	95.7	98.2	P/P	80 - 120
2336741	Chromium	95.2	94.6	P/P	80 - 120
2336741	Cobalt	96.2	97.0	P/P	80 - 120
2336741	Copper	96.6	97.5	P/P	80 - 120
2336741	Lead	93.0	93.8	P/P	80 - 120
2336741	Manganese	95.8	97.2	P/P	80 - 120
2336741	Molybdenum	96.8	97.8	P/P	80 - 120
2336741	Nickel	94.1	94.0	P/P	80 - 120
2336741	Selenium	92.8	93.1	P/P	80 - 120
2336741	Silver	94.6	96.3	P/P	80 - 120
2336741	Thallium	96.8	98.3	P/P	80 - 120
2336854	Aluminum	100		P	80 - 120
2336854	Antimony	101		P	80 - 120
2336854	Arsenic	98.9		P	80 - 120
2336854	Barium	102		P	80 - 120
2336854	Beryllium	100		P	80 - 120
2336854	Boron	104		P	80 - 120
2336854	Cadmium	99.3		P	80 - 120
2336854	Chromium	98.7		P	80 - 120
2336854	Cobalt	99.4		P	80 - 120
2336854	Copper	96.5		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P415695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336854	Lead	96.3		P	80 - 120
2336854	Manganese	99.4		P	80 - 120
2336854	Molybdenum	99.8		P	80 - 120
2336854	Nickel	97.1		P	80 - 120
2336854	Selenium	98.1		P	80 - 120
2336854	Silver	96.0		P	80 - 120
2336854	Thallium	101		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P415944

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336699	Chloride	99.7		P	90 - 110
2336766	Chloride	97.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P415949

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336699	Sulfate	100		P	90 - 110
2336766	Sulfate	97.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P415994

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336737	Ammonia-N	106	106	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P415871

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336737	Kjeldahl Nitrogen	108	98.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P416343

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336615	NO2NO3-N	104	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P415934

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336768	Total-P	102	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P415604

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336738	O-Phosphate-P	100	99.6	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415844

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336742	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	109	115	P/P	50 - 150
2336742	Acetochlor	99.8	87.0	P/P	65 - 124
2336742	Alachlor	97.4	84.4	P/P	61 - 121
2336742	Ametryn	107	101	P/P	52 - 216
2336742	Atrazine Desethyl	85.5	76.8	P/P	15 - 160
2336742	Avobenzone	119	156	P/P	59 - 206
2336742	Azinphos Methyl	153	149	P/P	40 - 292
2336742	Azoxystrobin	112	103	P/P	12 - 242
2336742	Bromacil	97.9	87.9	P/P	54 - 167
2336742	Butylate	45.8	34.8	P/P	14 - 94.0
2336742	Caffeine	85.4	88.9	P/P	10 - 226
2336742	Carbophenothion	110	98.2	P/P	49 - 122
2336742	Carfentrazone Ethyl	115	94.4	P/P	53 - 138
2336742	Chlorfenapyr	90.9	73.8	P/P	50 - 150
2336742	Chlorpyrifos Ethyl	86.3	77.9	P/P	52 - 122
2336742	Chlorpyrifos Methyl	84.0	71.7	P/P	66 - 117
2336742	Coumaphos	112	96.6	P/P	50 - 220
2336742	Cyanazine	103	89.2	P/P	43 - 245
2336742	Cyprodinil	98.5	85.3	P/P	50 - 150
2336742	Demeton	73.2	65.2	P/P	43 - 188
2336742	Diazinon	101	85.7	P/P	69 - 131
2336742	Difenoconazole	143	129	P/P	34 - 231
2336742	Dimethenamid	85.0	72.5	P/P	55 - 118
2336742	Dimethomorph	95.9	88.8	P/P	50 - 150
2336742	Disulfoton	84.1	74.5	P/P	38 - 141
2336742	Dithiopyr	97.7	83.4	P/P	42 - 116
2336742	EPTC	39.2	28.1	P/P	18 - 85.0
2336742	Ethion	81.8	68.4	P/P	10 - 131
2336742	Ethoprop	97.4	82.4	P/P	65 - 129
2336742	Etridiazole	51.3	38.5	P/F	50 - 150
2336742	Fenamiphos	98.0	85.5	P/P	31 - 137
2336742	Fenbuconazole	111	94.1	P/P	57 - 160
2336742	Fipronil	115	97.6	P/P	62 - 132
2336742	Fipronil Desulfinyl	120	97.5	P/P	57 - 131
2336742	Fipronil Sulfide	95.8	82.4	P/P	15 - 138
2336742	Fipronil Sulfone	105	96.3	P/P	21 - 134
2336742	Fluazifop-P-butyl	122	111	P/P	54 - 133
2336742	Fludioxonil	95.3	80.7	P/P	58 - 127
2336742	Flumioxazin	174	155	P/P	33 - 300
2336742	Flutolanil	116	94.9	P/P	42 - 130
2336742	Fluxapyroxad	114	103	P/P	23 - 141
2336742	Fonofos	80.7	79.4	P/P	58 - 119
2336742	Hexazinone	110	97.0	P/P	68 - 172
2336742	Imazalil	72.4	66.4	P/P	48 - 283
2336742	Iprodione	118	102	P/P	38 - 140
2336742	Loratadine	96.6	91.9	P/P	50 - 150
2336742	Malathion	113	99.7	P/P	40 - 137
2336742	Metalaxyl	94.8	86.1	P/P	21 - 129
2336742	Metolachlor	102	91.0	P/P	55 - 122
2336742	Metribuzin	97.9	86.0	P/P	38 - 187
2336742	Mevinphos	86.3	73.7	P/P	54 - 134
2336742	Molinate	60.6	51.6	P/P	41 - 97.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415844

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336742	Myclobutanil	113	101	P/P	56 - 125
2336742	Naled	87.7	76.3	P/P	10 - 108
2336742	Napropamide	82.2	70.9	P/P	50 - 150
2336742	Norflurazon	93.6	83.7	P/P	32 - 122
2336742	Octinoxate	98.9	109	P/P	25 - 150
2336742	Oxadiazon	90.6	81.7	P/P	40 - 119
2336742	Oxybenzone	86.4	98.2	P/P	59 - 147
2336742	Oxyfluorfen	122	108	P/P	61 - 153
2336742	Parathion Ethyl	96.9	86.0	P/P	59 - 130
2336742	Parathion Methyl	117	101	P/P	65 - 155
2336742	PBDE-47	92.3	96.5	P/P	50 - 150
2336742	PBDE-99	91.9	97.5	P/P	50 - 150
2336742	Pendimethalin	106	96.2	P/P	49 - 138
2336742	Phenytoin	116	104	P/P	50 - 200
2336742	Phorate	69.7	62.0	P/P	54 - 161
2336742	Prodiamine	74.7	63.4	P/P	33 - 161
2336742	Prometon	90.0	82.3	P/P	48 - 140
2336742	Prometryn	96.2	81.5	P/P	55 - 134
2336742	Pronamide	123	116	P/P	66 - 137
2336742	Propanil	139	115	P/P	50 - 150
2336742	Propargite	93.4	71.7	P/P	50 - 200
2336742	Propiconazole	85.7	79.4	P/P	36 - 150
2336742	Pyraflufen Ethyl	106	87.0	P/P	50 - 150
2336742	Pyridaben	111	102	P/P	50 - 200
2336742	Pyriproxyfen	104	87.8	P/P	10 - 165
2336742	Simazine	104	88.7	P/P	57 - 145
2336742	Stirophos	78.1	62.4	P/P	50 - 150
2336742	Sulfentrazone	114	99.2	P/P	34 - 140
2336742	Tebuconazole	70.9	55.7	P/P	10 - 127
2336742	Terbufos	95.7	81.2	P/P	59 - 138
2336742	Terbutylazine	97.4	83.3	P/P	68 - 119
2336742	Thiobencarb	114	97.3	P/P	50 - 150
2336742	Tri-o-cresyl Phosphate	89.1	96.9	P/P	50 - 150
2336742	Triadimefon	103	86.4	P/P	50 - 150

Reference Method: EPA 8321B

Batch ID: P415602

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336740	Acesulfame K	78.8	79.6	P/P	40 - 150
2336740	AMPA	102	105	P/P	40 - 150
2336740	Endothall	63.7	62.7	P/P	40 - 150
2336740	Glufosinate	107	113	P/P	40 - 150
2336740	Glyphosate	83.2	90.5	P/P	40 - 150
2336740	Sucralose	101	101	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P415828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336740	2,4-D	50.1	66.5	P/P	40 - 150
2336740	2,4,5-T	39.2	39.5	F/F	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P415828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336740	Acetaminophen	92.2	98.3	P/P	30 - 150
2336740	Acetamiprid	69.3	82.3	P/P	40 - 150
2336740	Afidopyropen	50.1	63.1	P/P	30 - 150
2336740	Bentazon	47.7	47.0	P/P	30 - 150
2336740	Benzovindiflupyr	84.4	89.3	P/P	40 - 150
2336740	Carbamazepine	79.4	85.7	P/P	40 - 150
2336740	Clothianidin	96.5	111	P/P	40 - 150
2336740	Dinotefuran	120	133	P/P	40 - 150
2336740	Diuron	58.7	56.6	P/P	40 - 150
2336740	Fenuron	79.6	89.6	P/P	40 - 150
2336740	Fluridone	68.0	79.9	P/P	40 - 150
2336740	Hydrocodone	90.6	95.8	P/P	40 - 150
2336740	Ibuprofen	72.4	67.9	P/P	40 - 150
2336740	Imazapyr	73.0	79.6	P/P	40 - 150
2336740	Imidacloprid	121	127	P/P	40 - 150
2336740	Linuron	68.2	77.1	P/P	40 - 150
2336740	Mandestrobin	68.2	75.2	P/P	40 - 150
2336740	MCPP	63.8	69.1	P/P	40 - 150
2336740	Naproxen	51.3	60.8	P/P	40 - 150
2336740	Primidone	94.7	110	P/P	40 - 150
2336740	Pyraclostrobin	74.5	82.8	P/P	40 - 150
2336740	Silvex	49.3	47.4	P/P	40 - 150
2336740	Thiamethoxam	115	127	P/P	40 - 150
2336740	Tolfenpyrad	44.9	46.7	P/P	30 - 150
2336740	Triclopyr	48.1	50.0	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P415962

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336989	Fluoride	101	101	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P415856

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2336489	Organic Carbon	96.5	98.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P415682

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336579	Color (true)	0.577	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P415668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336611	Turbidity	1.96	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P415695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336741	Calcium	1.12	Spike	P	0 - 20
2336741	Iron	0.142	Spike	P	0 - 20
2336741	Magnesium	0.222	Spike	P	0 - 20
2336741	Potassium	0.532	Spike	P	0 - 20
2336741	Sodium	0.934	Spike	P	0 - 20
2336741	Strontium	1.15	Spike	P	0 - 20
2336741	Tin	0.156	Spike	P	0 - 20
2336741	Titanium	0.303	Spike	P	0 - 20
2336741	Vanadium	0.750	Spike	P	0 - 20
2336741	Zinc	3.85	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336741	Aluminum	0.135	Spike	P	0 - 20
2336741	Antimony	0.300	Spike	P	0 - 20
2336741	Arsenic	0.813	Spike	P	0 - 20
2336741	Barium	0.509	Spike	P	0 - 20
2336741	Beryllium	0.334	Spike	P	0 - 20
2336741	Boron	0.151	Spike	P	0 - 20
2336741	Cadmium	2.55	Spike	P	0 - 20
2336741	Chromium	0.631	Spike	P	0 - 20
2336741	Cobalt	0.805	Spike	P	0 - 20
2336741	Copper	0.959	Spike	P	0 - 20
2336741	Lead	0.894	Spike	P	0 - 20
2336741	Manganese	1.18	Spike	P	0 - 20
2336741	Molybdenum	0.991	Spike	P	0 - 20
2336741	Nickel	0.125	Spike	P	0 - 20
2336741	Selenium	0.306	Spike	P	0 - 20
2336741	Silver	1.86	Spike	P	0 - 20
2336741	Thallium	1.56	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415944

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336699	Chloride	1.07	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415949

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336699	Sulfate	0.438	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415994

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336737	Ammonia-N	0.377	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415871

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336737	Kjeldahl Nitrogen	6.17	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416343

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336615	NO2NO3-N	0.518	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415934

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336768	Total-P	1.91	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P415604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336738	O-Phosphate-P	0.700	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P415844

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336742	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	5.33	Spike	P	0 - 30
2336742	Acetochlor	13.7	Spike	P	0 - 27

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P415844

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336742	Alachlor	14.2	Spike	P	0 - 27
2336742	Ametryn	6.42	Spike	P	0 - 34
2336742	Atrazine	2.19	Spike	P	0 - 41
2336742	Atrazine Desethyl	10.8	Spike	P	0 - 38
2336742	Avobenzone	26.8	Spike	P	0 - 30
2336742	Azinphos Methyl	2.64	Spike	P	0 - 62
2336742	Azoxystrobin	8.64	Spike	P	0 - 32
2336742	Bromacil	10.7	Spike	P	0 - 30
2336742	Butylate	27.3	Spike	P	0 - 59
2336742	Caffeine	4.01	Spike	P	0 - 60
2336742	Carbophenothion	11.8	Spike	P	0 - 25
2336742	Carfentrazone Ethyl	19.9	Spike	P	0 - 26
2336742	Chlorfenapyr	20.8	Spike	P	0 - 30
2336742	Chlorpyrifos Ethyl	10.3	Spike	P	0 - 27
2336742	Chlorpyrifos Methyl	15.8	Spike	P	0 - 26
2336742	Coumaphos	14.3	Spike	P	0 - 30
2336742	Cyanazine	14.1	Spike	P	0 - 58
2336742	Cyprodinil	14.4	Spike	P	0 - 30
2336742	Demeton	11.6	Spike	P	0 - 25
2336742	Diazinon	16.7	Spike	P	0 - 29
2336742	Difenoconazole	9.89	Spike	P	0 - 25
2336742	Dimethenamid	14.8	Spike	P	0 - 30
2336742	Dimethomorph	7.68	Spike	P	0 - 30
2336742	Disulfoton	12.1	Spike	P	0 - 33
2336742	Dithiopyr	15.8	Spike	P	0 - 22
2336742	EPTC	32.9	Spike	P	0 - 38
2336742	Ethion	17.9	Spike	P	0 - 79
2336742	Ethoprop	16.7	Spike	P	0 - 23
2336742	Etridiazole	28.3	Spike	P	0 - 30
2336742	Fenamiphos	13.6	Spike	P	0 - 58
2336742	Fenbuconazole	16.5	Spike	P	0 - 37
2336742	Fipronil	16.8	Spike	P	0 - 33
2336742	Fipronil Desulfinyl	20.8	Spike	P	0 - 26
2336742	Fipronil Sulfide	15.0	Spike	P	0 - 37
2336742	Fipronil Sulfone	8.84	Spike	P	0 - 50
2336742	Fluazifop-P-butyl	9.34	Spike	P	0 - 24
2336742	Fludioxonil	16.6	Spike	P	0 - 26
2336742	Flumioxazin	11.2	Spike	P	0 - 37
2336742	Flutolanil	19.6	Spike	P	0 - 26
2336742	Fluxapyroxad	9.79	Spike	P	0 - 34
2336742	Fonofos	1.66	Spike	P	0 - 27
2336742	Hexazinone	12.8	Spike	P	0 - 36
2336742	Imazalil	8.74	Spike	P	0 - 65
2336742	Iprodione	14.5	Spike	P	0 - 33
2336742	Loratadine	5.01	Spike	P	0 - 30
2336742	Malathion	12.7	Spike	P	0 - 44
2336742	Metalaxyl	9.71	Spike	P	0 - 38
2336742	Metolachlor	8.54	Spike	P	0 - 36
2336742	Metribuzin	12.9	Spike	P	0 - 63
2336742	Mevinphos	15.7	Spike	P	0 - 26
2336742	Molinate	16.1	Spike	P	0 - 40

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P415844

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336742	Myclobutanil	11.0	Spike	P	0 - 21
2336742	Naled	14.0	Spike	P	0 - 26
2336742	Napropamide	14.9	Spike	P	0 - 30
2336742	Norflurazon	11.2	Spike	P	0 - 24
2336742	Octinoxate	8.21	Spike	P	0 - 30
2336742	Oxadiazon	10.3	Spike	P	0 - 27
2336742	Oxybenzone	12.8	Spike	P	0 - 30
2336742	Oxyfluorfen	12.4	Spike	P	0 - 24
2336742	Parathion Ethyl	11.9	Spike	P	0 - 28
2336742	Parathion Methyl	14.8	Spike	P	0 - 27
2336742	PBDE-47	4.45	Spike	P	0 - 30
2336742	PBDE-99	5.96	Spike	P	0 - 30
2336742	Pendimethalin	9.58	Spike	P	0 - 31
2336742	Phenytoin	11.5	Spike	P	0 - 30
2336742	Phorate	11.7	Spike	P	0 - 27
2336742	Prodiamine	16.4	Spike	P	0 - 52
2336742	Prometon	8.90	Spike	P	0 - 31
2336742	Prometryn	16.6	Spike	P	0 - 28
2336742	Pronamide	6.14	Spike	P	0 - 26
2336742	Propanil	18.9	Spike	P	0 - 30
2336742	Propargite	26.2	Spike	P	0 - 30
2336742	Propiconazole	7.70	Spike	P	0 - 31
2336742	Pyraflufen Ethyl	19.7	Spike	P	0 - 30
2336742	Pyridaben	8.63	Spike	P	0 - 30
2336742	Pyriproxyfen	16.4	Spike	P	0 - 50
2336742	Simazine	15.8	Spike	P	0 - 29
2336742	Stirophos	22.3	Spike	P	0 - 30
2336742	Sulfentrazone	13.8	Spike	P	0 - 33
2336742	Tebuconazole	22.5	Spike	P	0 - 44
2336742	Terbufos	16.4	Spike	P	0 - 29
2336742	Terbuthylazine	15.6	Spike	P	0 - 27
2336742	Thiobencarb	15.6	Spike	P	0 - 30
2336742	Tri-o-cresyl Phosphate	8.30	Spike	P	0 - 30
2336742	Triadimefon	17.4	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P415602

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336740	Acesulfame K	1.01	Spike	P	0 - 30
2336740	AMPA	3.23	Spike	P	0 - 30
2336740	Endothall	1.50	Spike	P	0 - 30
2336740	Glufosinate	5.87	Spike	P	0 - 30
2336740	Glyphosate	8.35	Spike	P	0 - 30
2336740	Sucralose	0.0700	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P415828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336740	2,4-D	24.9	Spike	P	0 - 30
2336740	2,4,5-T	0.782	Spike	P	0 - 30
2336740	Acetaminophen	6.40	Spike	P	0 - 30
2336740	Acetamiprid	17.2	Spike	P	0 - 30
2336740	Afidopyropen	23.0	Spike	P	0 - 30
2336740	Bentazon	1.60	Spike	P	0 - 30
2336740	Benzovindiflupyr	5.59	Spike	P	0 - 30
2336740	Carbamazepine	7.66	Spike	P	0 - 30
2336740	Clothianidin	13.6	Spike	P	0 - 30
2336740	Dinotefuran	10.5	Spike	P	0 - 30
2336740	Diuron	3.77	Spike	P	0 - 30
2336740	Fenuron	11.8	Spike	P	0 - 30
2336740	Fluridone	16.0	Spike	P	0 - 30
2336740	Hydrocodone	5.66	Spike	P	0 - 30
2336740	Ibuprofen	6.46	Spike	P	0 - 30
2336740	Imazapyr	8.65	Spike	P	0 - 30
2336740	Imidacloprid	4.87	Spike	P	0 - 30
2336740	Linuron	12.3	Spike	P	0 - 30
2336740	Mandestrobin	9.76	Spike	P	0 - 30
2336740	MCP	7.99	Spike	P	0 - 30
2336740	Naproxen	16.9	Spike	P	0 - 30
2336740	Primidone	14.9	Spike	P	0 - 30
2336740	Pyraclostrobin	10.5	Spike	P	0 - 30
2336740	Silvex	3.94	Spike	P	0 - 30
2336740	Thiamethoxam	10.0	Spike	P	0 - 30
2336740	Tolfenpyrad	3.87	Spike	P	0 - 30
2336740	Triclopyr	3.81	Spike	P	0 - 30

Reference Method: SM 2320 B-2011

Batch ID: P415954

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336989	Total Alkalinity	0.202	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011

Batch ID: P415904

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336312	TDS	3.25	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P415962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336989	Fluoride	0.0	Spike	P	0 - 1.6

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P415856

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2336489	Organic Carbon	1.08	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2336740

Field Sample ID: G4NW0537

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	66.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	97.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	85.1	P	30 - 160
EPA 8321B	Diuron-d6	70.6	P	30 - 160
EPA 8321B	Endothall-d6	65.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.8	P	30 - 160
EPA 8321B	Primidone-d5	107	P	30 - 160
EPA 8321B	Sucralose-d6	99.3	P	30 - 160

Lab Sample ID: 2336742

Field Sample ID: G4NW0537

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	69.2	P	20 - 200
EPA 8270E	Simazine-d10	106	P	71 - 140
EPA 8270E	Terbufos-d10	68.5	P	62 - 131
EPA 8270E	Terphenyl-d14	90.2	P	52 - 141

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A112998

Included Lab Sample IDs: 2336738

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A113019

Included Lab Sample IDs: 2336736

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

Reference Method: DEP SOP: NU-094-1

Run ID: A113020

Included Lab Sample IDs: 2336736

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	102	P/P	85 - 115

Reference Method: EPA 8321B

Run ID: A113088

Included Lab Sample IDs: 2336740

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	80.7	86.7	P/P	60 - 160
Sucralose	101	103	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A113094

Included Lab Sample IDs: 2336740

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	108	104	P/P	60 - 160
Endothall	61.1	62.2	P/P	60 - 160
Glufosinate	91.5	91.3	P/P	60 - 160
Glyphosate	94.2	99.0	P/P	60 - 160

Reference Method: SM 5310 B-2011

Run ID: A113129

Included Lab Sample IDs: 2336737

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.8	100	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113150

Included Lab Sample IDs: 2336741

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	95.0	97.7	P/P	90 - 110
Antimony	98.8	98.9	P/P	90 - 110
Arsenic	98.2	98.5	P/P	90 - 110
Barium	98.3	97.2	P/P	90 - 110
Beryllium	98.0	97.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A113150

Included Lab Sample IDs: 2336741

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	94.9	97.9	P/P	90 - 110
Cadmium	98.3	98.1	P/P	90 - 110
Chromium	98.1	97.0	P/P	90 - 110
Cobalt	98.0	98.2	P/P	90 - 110
Copper	96.5	96.4	P/P	90 - 110
Lead	92.5	91.9	P/P	90 - 110
Manganese	99.5	98.9	P/P	90 - 110
Molybdenum	98.5	96.8	P/P	90 - 110
Nickel	97.8	97.2	P/P	90 - 110
Selenium	98.3	97.2	P/P	90 - 110
Silver	97.2	96.8	P/P	90 - 110
Thallium	94.6	94.3	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A113155

Included Lab Sample IDs: 2336740

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	94.0	92.3	P/P	50 - 150
2,4,5-T	100	111	P/P	50 - 150
Acetaminophen	98.2	106	P/P	60 - 160
Acetamiprid	104	104	P/P	50 - 150
Afidopyropen	105	107	P/P	50 - 150
Bentazon	110	90.6	P/P	50 - 160
Benzovindiflupyr	108	103	P/P	50 - 150
Carbamazepine	102	104	P/P	60 - 150
Clothianidin	100	99.1	P/P	60 - 150
Dinotefuran	101	103	P/P	50 - 150
Diuron	103	89.8	P/P	60 - 160
Fenuron	95.6	99.9	P/P	60 - 150
Fluridone	104	114	P/P	60 - 160
Hydrocodone	94.0	98.7	P/P	60 - 150
Ibuprofen	80.5	82.3	P/P	50 - 160
Imazapyr	98.4	84.6	P/P	50 - 150
Imidacloprid	92.1	104	P/P	60 - 150
Linuron	117	89.1	P/P	60 - 150
Mandestrobin	99.4	102	P/P	50 - 150
MCPP	104	100	P/P	50 - 150
Naproxen	99.7	70.1	P/P	50 - 160
Primidone	87.4	91.4	P/P	60 - 150
Pyraclostrobin	102	104	P/P	60 - 150
Silvex	88.4	95.0	P/P	50 - 150
Thiamethoxam	99.5	94.3	P/P	50 - 150
Tolfenpyrad	90.1	101	P/P	60 - 150
Triclopyr	103	107	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A113156

Included Lab Sample IDs: 2336736

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A113156

Included Lab Sample IDs: 2336736

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.2	101	P/P	90 - 110
Sulfate	99.3	101	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A113157

Included Lab Sample IDs: 2336736

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.9	101	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A113157

Included Lab Sample IDs: 2336736

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113171

Included Lab Sample IDs: 2336737

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.4	97.5	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A113174

Included Lab Sample IDs: 2336741

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	97.6	98.6	P/P	90 - 110
Iron	101	101	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Potassium	102	101	P/P	90 - 110
Sodium	101	101	P/P	90 - 110
Strontium	100	102	P/P	90 - 110
Tin	97.8	99.3	P/P	90 - 110
Titanium	97.5	100	P/P	90 - 110
Vanadium	97.7	98.9	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A113217

Included Lab Sample IDs: 2336741

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Zinc	99.6	98.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113232

Included Lab Sample IDs: 2336737

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113232

Included Lab Sample IDs: 2336737

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.3	100	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A113248

Included Lab Sample IDs: 2336742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	96.3		P	80 - 120
Atrazine	95.9		P	80 - 120
Atrazine Desethyl	90.9		P	80 - 120
Azinphos Methyl	109		P	80 - 120
Azoxystrobin	97.9		P	80 - 120
Bromacil	96.5		P	80 - 120
Butylate	93.7		P	80 - 120
Caffeine	95.5		P	80 - 120
Carbophenothion	99.8		P	80 - 120
Carfentrazone Ethyl	96.3		P	80 - 120
Chlorfenapyr	94.2		P	80 - 120
Chlorpyrifos Ethyl	87.7		P	80 - 120
Chlorpyrifos Methyl	84.0		P	80 - 120
Coumaphos	84.7		P	80 - 120
Cyanazine	89.4		P	80 - 120
Cyprodinil	94.4		P	80 - 120
Demeton	91.7		P	80 - 120
Diazinon	94.3		P	80 - 120
Difenoconazole	91.1		P	80 - 120
Dimethenamid	101		P	80 - 120
Dimethomorph	93.9		P	80 - 120
Disulfoton	96.3		P	80 - 120
Dithiopyr	89.8		P	80 - 120
EPTC	96.7		P	80 - 120
Ethion	92.0		P	80 - 120
Ethoprop	98.9		P	80 - 120
Fenamiphos	94.1		P	80 - 120
Fenbuconazole	96.8		P	80 - 120
Fipronil	96.3		P	80 - 120
Fipronil Desulfinyl	95.9		P	80 - 120
Fipronil Sulfide	80.7		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fluazifop-P-butyl	94.8		P	80 - 120
Fludioxonil	87.1		P	80 - 120
Flumioxazin	90.3		P	80 - 120
Flutolanil	101		P	80 - 120
Fluxapyroxad	102		P	80 - 120
Hexazinone	101		P	80 - 120
Imazalil	96.3		P	80 - 120
Iprodione	98.6		P	80 - 120
Loratadine	104		P	80 - 120
Malathion	94.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A113248
 Included Lab Sample IDs: 2336742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Metalaxyl	94.7		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	96.3		P	80 - 120
Molinate	95.5		P	80 - 120
Myclobutanil	102		P	80 - 120
Naled	96.0		P	80 - 120
Napropamide	87.6		P	80 - 120
Norflurazon	94.0		P	80 - 120
Oxadiazon	98.9		P	80 - 120
Oxyfluorfen	87.9		P	80 - 120
Parathion Ethyl	102		P	80 - 120
Parathion Methyl	96.9		P	80 - 120
Pendimethalin	96.5		P	80 - 120
Phorate	92.8		P	80 - 120
Prodiamine	99.6		P	80 - 120
Prometon	98.6		P	80 - 120
Prometryn	98.6		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	109		P	80 - 120
Propargite	107		P	80 - 120
Propiconazole	93.4		P	80 - 120
Pyraflufen Ethyl	107		P	80 - 120
Pyridaben	91.2		P	80 - 120
Pyriproxyfen	107		P	80 - 120
Simazine	89.9		P	80 - 120
Stirophos	84.8		P	80 - 120
Sulfentrazone	99.1		P	80 - 120
Tebuconazole	90.7		P	80 - 120
Terbufos	87.3		P	80 - 120
Terbuthylazine	93.0		P	80 - 120
Thiobencarb	110		P	80 - 120
Triadimefon	100		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
 Run ID: A113279
 Included Lab Sample IDs: 2336737

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	97.8	P/P	90 - 110

Reference Method: EPA 8270E
 Run ID: A113331
 Included Lab Sample IDs: 2336742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	98.2		P	80 - 120
Avobenzone	97.7		P	80 - 120
Octinoxate	94.7		P	80 - 120
Oxybenzone	96.6		P	80 - 120
PBDE-47	94.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113331
Included Lab Sample IDs: 2336742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PBDE-99	101		P	80 - 120
Tri-o-cresyl Phosphate	92.3		P	80 - 120

Reference Method: EPA 8270E
Run ID: A113373
Included Lab Sample IDs: 2336742

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Etridiazole	99.0		P	80 - 120
Fonofos	95.1		P	80 - 120
Phenytoin	106		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A113374
Included Lab Sample IDs: 2336737

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

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	104					0.577	
EPA 180.1 Rev. 2.0	Turbidity	97.1					1.96	
EPA 200.7 Rev. 4.4	Calcium	104	103	102	98.6			1.12
	Iron	102	104	104	106			0.142
	Magnesium	104	105	104	103			0.222
	Potassium	110	113	112	105			0.532
	Sodium	102	103	102	101			0.934
	Strontium	102	102	103	104			1.15
	Tin	106	104	104	103			0.156
	Titanium	103	103	103	102			0.303
	Vanadium	94.3	94.6	93.9	95.2			0.750
	Zinc	103	103	99.4	101			3.85
EPA 200.8 Rev. 5.4	Aluminum	97.7	100	96.3	96.2			0.135
	Antimony	101	101	98.4	98.7			0.300
	Arsenic	98.7	98.9	94.4	95.2			0.813
	Barium	103	102	100	100			0.509
	Beryllium	97.4	100	96.0	95.7			0.334
	Boron	98.3	104	100	101			0.151
	Cadmium	101	99.3	95.7	98.2			2.55
	Chromium	97.2	98.7	95.2	94.6			0.631
	Cobalt	100	99.4	96.2	97.0			0.805
	Copper	97.0	96.5	96.6	97.5			0.959
	Lead	94.7	96.3	93.0	93.8			0.894
	Manganese	101	99.4	95.8	97.2			1.18
	Molybdenum	100	99.8	96.8	97.8			0.991
	Nickel	98.8	97.1	94.1	94.0			0.125
	Selenium	94.4	98.1	92.8	93.1			0.306
	Silver	99.1	96.0	94.6	96.3			1.86
	Thallium	98.2	101	96.8	98.3			1.56
EPA 300.0 Rev. 2.1	Chloride	101	99.7	97.9			1.07	
	Sulfate	100	100	97.8			0.438	
EPA 350.1 Rev. 2.0	Ammonia-N	100	106	106				0.377
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	108	98.9				6.17
EPA 353.2 Rev. 2.0	NO2NO3-N	100	104	103				0.518
EPA 365.1 Rev. 2.0	Total-P	102	102	104				1.91
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	100	99.6				0.700
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	74.4	109	115				5.33
	Acetochlor	105	99.8	87.0				13.7
	Alachlor	106	97.4	84.4				14.2
	Ametryn	93.7	107	101				6.42
	Atrazine	107						2.19
	Atrazine Desethyl	79.8	85.5	76.8				10.8
	Avobenzone	89.9	119	156				26.8
	Azinphos Methyl	150	153	149				2.64
	Azoxystrobin	134	112	103				8.64
	Bromacil	75.9	97.9	87.9				10.7
	Butylate	73.6	45.8	34.8				27.3
	Caffeine	59.3	85.4	88.9				4.01
	Carbophenothion	101	110	98.2				11.8
	Carfentrazone Ethyl	103	115	94.4				19.9
	Chlorfenapyr	57.2	90.9	73.8				20.8
	Chlorpyrifos Ethyl	69.1	86.3	77.9				10.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Chlorpyrifos Methyl	76.4	84.0	71.7			15.8
	Coumaphos	65.6	112	96.6			14.3
	Cyanazine	110	103	89.2			14.1
	Cyprodinil	83.2	98.5	85.3			14.4
	Demeton	82.4	73.2	65.2			11.6
	Diazinon	112	101	85.7			16.7
	Difenoconazole	72.9	143	129			9.89
	Dimethenamid	86.7	85.0	72.5			14.8
	Dimethomorph	192	95.9	88.8			7.68
	Disulfoton	86.4	84.1	74.5			12.1
	Dithiopyr	99.5	97.7	83.4			15.8
	EPTC	68.0	39.2	28.1			32.9
	Ethion	69.6	81.8	68.4			17.9
	Ethoprop	96.3	97.4	82.4			16.7
	Etridiazole	86.1	51.3	38.5			28.3
	Fenamiphos	61.0	98.0	85.5			13.6
	Fenbuconazole	88.6	111	94.1			16.5
	Fipronil	101	115	97.6			16.8
	Fipronil Desulfinyl	106	120	97.5			20.8
	Fipronil Sulfide	76.4	95.8	82.4			15.0
	Fipronil Sulfone	99.0	105	96.3			8.84
	Fluazifop-P-butyl	99.7	122	111			9.34
	Fludioxonil	74.1	95.3	80.7			16.6
	Flumioxazin	110	174	155			11.2
	Flutolanil	84.7	116	94.9			19.6
	Fluxapyroxad	48.4	114	103			9.79
	Fonofos	70.2	80.7	79.4			1.66
	Hexazinone	90.6	110	97.0			12.8
	Imazalil	65.4	72.4	66.4			8.74
	Iprodione	92.6	118	102			14.5
	Loratadine	204	96.6	91.9			5.01
	Malathion	83.6	113	99.7			12.7
	Metalaxyl	90.4	94.8	86.1			9.71
	Metolachlor	79.3	102	91.0			8.54
	Metribuzin	111	97.9	86.0			12.9
	Mevinphos	91.2	86.3	73.7			15.7
	Molinate	82.5	60.6	51.6			16.1
	Myclobutanil	105	113	101			11.0
	Naled	85.4	87.7	76.3			14.0
	Napropamide	49.4	82.2	70.9			14.9
	Norflurazon	87.2	93.6	83.7			11.2
	Octinoxate	82.8	98.9	109			8.21
	Oxadiazon	67.3	90.6	81.7			10.3
	Oxybenzone	73.8	86.4	98.2			12.8
	Oxyfluorfen	75.4	122	108			12.4
	Parathion Ethyl	90.6	96.9	86.0			11.9
	Parathion Methyl	126	117	101			14.8
	PBDE-47	65.5	92.3	96.5			4.45
	PBDE-99	59.8	91.9	97.5			5.96
	Pendimethalin	114	106	96.2			9.58
	Phenytol	34.7	116	104			11.5
	Phorate	74.5	69.7	62.0			11.7
	Prodiamine	101	74.7	63.4			16.4
	Prometon	79.9	90.0	82.3			8.90

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Prometryn	81.3	96.2	81.5			16.6
	Pronamide	110	123	116			6.14
	Propanil	103	139	115			18.9
	Propargite	161	93.4	71.7			26.2
	Propiconazole	79.4	85.7	79.4			7.70
	Pyraflufen Ethyl	91.4	106	87.0			19.7
	Pyridaben	75.0	111	102			8.63
	Pyriproxyfen	49.6	104	87.8			16.4
	Simazine	101	104	88.7			15.8
	Stiropfos	87.1	78.1	62.4			22.3
	Sulfentrazone	103	114	99.2			13.8
	Tebuconazole	16.8	70.9	55.7			22.5
	Terbufos	94.8	95.7	81.2			16.4
	Terbuthylazine	93.4	97.4	83.3			15.6
	Thiobencarb	107	114	97.3			15.6
	Tri-o-cresyl Phosphate	79.6	89.1	96.9			8.30
	Triadimefon	83.2	103	86.4			17.4
EPA 8321B	2,4-D	52.9	50.1	66.5			24.9
	2,4,5-T	44.6	39.2	39.5			0.782
	Acesulfame K	82.0	78.8	79.6			1.01
	Acetaminophen	83.1	92.2	98.3			6.40
	Acetamiprid	78.4	69.3	82.3			17.2
	Afidopyropen	45.0	50.1	63.1			23.0
	AMPA	110	102	105			3.23
	Bentazon	70.8	47.7	47.0			1.60
	Benzovindiflupyr	87.2	84.4	89.3			5.59
	Carbamazepine	83.5	79.4	85.7			7.66
	Clothianidin	89.4	96.5	111			13.6
	Dinotefuran	90.8	120	133			10.5
	Diuron	66.8	58.7	56.6			3.77
	Endothall	64.1	63.7	62.7			1.50
	Fenuron	90.2	79.6	89.6			11.8
	Fluridone	80.6	68.0	79.9			16.0
	Glufosinate	104	107	113			5.87
	Glyphosate	97.3	83.2	90.5			8.35
	Hydrocodone	81.9	90.6	95.8			5.66
	Ibuprofen	60.5	72.4	67.9			6.46
	Imazapyr	88.0	73.0	79.6			8.65
	Imidacloprid	87.9	121	127			4.87
	Linuron	66.8	68.2	77.1			12.3
	Mandestrobin	72.4	68.2	75.2			9.76
	MCPPP	69.4	63.8	69.1			7.99
	Naproxen	42.9	51.3	60.8			16.9
	Primidone	92.2	94.7	110			14.9
	Pyraclostrobin	72.5	74.5	82.8			10.5
	Silvex	42.7	49.3	47.4			3.94
	Sucralose	103	101	101			0.0700
	Thiamethoxam	83.8	115	127			10.0
	Tolfenpyrad	43.0	44.9	46.7			3.87
	Triclopyr	51.2	48.1	50.0			3.81
SM 2320 B-2011	Total Alkalinity	101				0.202	
SM 2540 C-2011	TDS					3.25	
SM 4500-F- C-2011	Fluoride	99.8	101	101			0.0
SM 5310 B-2011	Organic Carbon	96.6	96.5	98.0			1.08

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2336736
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2336736
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2336741
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2336741
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2336736
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2336736
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2336737
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2336737
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2336737
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2336737
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2336738
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2336742
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2336742
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2336740
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2336736
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2336741
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2336736
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2336736
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2336736
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2336737

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	06/23/2022			06/23/2022 10:50	Anna M. Plaviak	2336736
EPA 180.1 Rev. 2.0	06/23/2022			06/23/2022 10:02	Khloe J Berg	2336736
EPA 200.7 Rev. 4.4	06/23/2022	06/24/2022 09:52	Mackenzie Hunt	06/30/2022 00:18	McKinley C Carter	2336741
	06/23/2022	06/24/2022 09:52	Mackenzie Hunt	06/30/2022 15:44	McKinley C Carter	2336741
EPA 200.8 Rev. 5.4	06/23/2022	06/24/2022 09:52	Mackenzie Hunt	06/28/2022 17:34	Emily M Philpot	2336741
EPA 300.0 Rev. 2.1	06/23/2022			06/29/2022 02:03	Anna M. Plaviak	2336736
EPA 350.1 Rev. 2.0	06/23/2022			06/29/2022 16:27	Judith K. Clark	2336737
EPA 351.2 Rev. 2.0	06/23/2022	06/29/2022 14:44	Samantha L Bates	07/01/2022 10:33	Alexandra J Mattheus	2336737
EPA 353.2 Rev. 2.0	06/23/2022			07/08/2022 09:53	Judith K. Clark	2336737
EPA 365.1 Rev. 2.0	06/23/2022	06/30/2022 14:54	Adam P Silver	07/05/2022 13:28	Simonne.V. Calhoun	2336737
EPA 365.1 Rev. 2.0 dissolved	06/23/2022			06/23/2022 10:25	James L Waggeberby	2336738
EPA 8270E	06/23/2022	06/27/2022 08:00	Rasheda Ghaffari	07/02/2022 21:04	Michael Poppell	2336742
	06/23/2022	06/27/2022 08:00	Rasheda Ghaffari	07/05/2022 14:29	Lipi Saha	2336742
	06/23/2022	06/27/2022 08:00	Rasheda Ghaffari	07/07/2022 19:57	Michael Poppell	2336742
EPA 8321B	06/23/2022	06/24/2022 12:00	Umesh Chiluwal	06/24/2022 23:23	Umesh Chiluwal	2336740
	06/23/2022	06/24/2022 12:00	Umesh Chiluwal	06/25/2022 06:34	Umesh Chiluwal	2336740
	06/23/2022	06/28/2022 09:30	June Rhew	06/29/2022 11:18	Juyoung Kim	2336740
SM 2320 B-2011	06/23/2022			06/28/2022 22:32	Dale L. Simmons	2336736
SM 2340 B-2011	06/23/2022			06/30/2022 00:18	McKinley C Carter	2336741
SM 2540 C-2011	06/23/2022			06/24/2022 15:21	Yijie Li	2336736
SM 2540 D-2011	06/23/2022			06/24/2022 15:21	Yijie Li	2336736
SM 4500-F- C-2011	06/23/2022			06/28/2022 22:32	Dale L. Simmons	2336736
SM 5310 B-2011	06/23/2022			06/27/2022 18:56	Khloe J Berg	2336737