Chemical Analysis Report

SE-DIST-2022-12-08-01

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

Event Description: **Lake Clarke and Blank**
Request ID: **RQ-2022-11-14-34**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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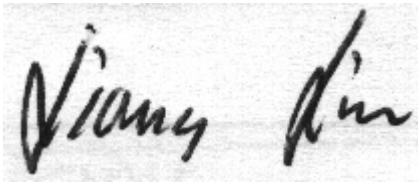
Certified by: Liang Lin, Environmental Administrator

Date Certified: 13-JAN-2023 10:17



Case Narrative

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

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Lake Clarke East of Wagner Circle **Collection Date/Time: 12/07/2022 11:15**

Field ID: G3SE0066 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2373795	DEP SOP: NU-094-1	Color (true)	72		PCU	P423287	
	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P423321	
	EPA 300.0 Rev. 2.1	Chloride	58		mg Cl/L	P423672	
		Sulfate	25		mg SO4/L	P423676	
	SM 2320 B-2011	Total Alkalinity	176		mg CaCO3/L	P423496	
	SM 2540 C-2015	TDS	341	A	mg/L	P423777	
	SM 2540 D-2015	TSS	3	I A	mg/L	P423652	
	SM 4500-F- C-2011	Fluoride	0.15		mg F/L	P423500	
2373797	EPA 350.1 Rev. 2.0	Ammonia-N	0.081		mg N/L	P423436	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P423413	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.34		mg N/L	P423362	
	EPA 365.1 Rev. 2.0	Total-P	0.063		mg P/L	P423353	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P423563	
2373807	EPA 8321B	2,4-D	0.026		ug/L	P423328	
		Acesulfame K	0.10	U	ug/L	P423201	
		2,4,5-T	0.0040	U	ug/L	P423328	
		AMPA	0.64		ug/L	P423201	
		Acetaminophen	0.0080	U	ug/L	P423328	
		Acetamiprid	0.0020	U	ug/L	P423328	
		Endothall	0.25	U	ug/L	P423201	
		Glufosinate	0.10	U	ug/L	P423201	
		Glyphosate	1.2		ug/L	P423201	
		Afidopyropen	0.0020	U	ug/L	P423328	
		Bentazon	0.24		ug/L	P423328	
		Sucralose	0.32		ug/L	P423201	
		Benzovindiflupyr	0.0020	U	ug/L	P423328	
		Carbamazepine	0.0023	I	ug/L	P423328	
		Clothianidin	0.0020	U	ug/L	P423328	
		Dinotefuran	0.0075	I	ug/L	P423328	
		Diuron	0.022		ug/L	P423328	
		Fenuron	0.032	U	ug/L	P423328	
		Fluridone	0.041		ug/L	P423328	
		Imazapyr	0.42		ug/L	P423328	
		Hydrocodone	0.0020	U	ug/L	P423328	
		Ibuprofen	0.20	U	ug/L	P423328	
		Imidacloprid	0.036		ug/L	P423328	
		Linuron	0.0040	U	ug/L	P423328	
		Mandestrobin	0.0020	U	ug/L	P423328	
		MCPP	0.0040	U	ug/L	P423328	
		Naproxen	0.0080	U	ug/L	P423328	
		Primidone	0.0040	U	ug/L	P423328	
		Pyraclostrobin	0.0020	U	ug/L	P423328	
		Silvex	0.0040	U	ug/L	P423328	
		Thiamethoxam	0.0020	U	ug/L	P423328	

Field ID: G3SE0066 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2373807	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P423328	
		Triclopyr	0.0040	U	ug/L	P423328	
2373809	EPA 200.7 Rev. 4.4	Calcium	75.9		mg/L	P423334	
		Iron	94	I	ug/L	P423334	
		Magnesium	5.21		mg/L	P423334	
		Potassium	3.4		mg/L	P423334	
		Sodium	37.7		mg/L	P423334	
		Strontium	648		ug/L	P423334	
		Tin	3.0	U	ug/L	P423334	
		Titanium	0.88	I	ug/L	P423334	
		Vanadium	2.9	I	ug/L	P423334	
		Zinc	5.0	U	ug/L	P423334	
	EPA 200.8 Rev. 5.4	Aluminum	27		ug/L	P423334	
		Antimony	0.14	I	ug/L	P423334	
		Arsenic	1.56		ug/L	P423334	
		Barium	21.8		ug/L	P423334	
		Beryllium	0.013	I	ug/L	P423334	
		Boron	54.5		ug/L	P423334	
		Cadmium	0.020	U	ug/L	P423334	
		Chromium	0.43	I	ug/L	P423334	
		Cobalt	0.080	I	ug/L	P423334	
		Copper	1.34		ug/L	P423334	
		Lead	0.20	U	ug/L	P423334	
		Manganese	11.1		ug/L	P423334	
		Molybdenum	1.14		ug/L	P423334	
		Nickel	0.50	U	ug/L	P423334	
		Selenium	0.29	I	ug/L	P423334	
		Silver	0.010	U	ug/L	P423334	
		Thallium	0.10	U	ug/L	P423334	
	SM 2340 B-2011	Hardness	211		mg/L	P423334	
2373813	EPA 8270E	Oxybenzone**	12	U	ng/L	P423385	
		Acetochlor	0.27	U	ng/L	P423385	
		Octinoxate**	24	U	ng/L	P423385	
		Alachlor	0.27	U	ng/L	P423385	
		Avobenzone**	120	U	ng/L	P423385	
		Ametryn	5.2		ng/L	P423385	
		Atrazine	310		ng/L	P423385	
		PBDE-47**	4.9	U	ng/L	P423385	
		Atrazine Desethyl	16		ng/L	P423385	
		PBDE-99**	6.1	U	ng/L	P423385	
		Azinphos Methyl	2.1	U	ng/L	P423385	
		Tri-o-cresyl Phosphate**	7.3	U	ng/L	P423385	
		Azoxystrobin	6.2		ng/L	P423385	
		Bromacil	0.99	I	ng/L	P423385	

Field ID: G3SE0066 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2373813	EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	15	U	ng/L	P423385	
		Butylate	0.43	U	ng/L	P423385	
		Dechlorane Plus**	37	U	ng/L	P423385	
		Caffeine**	18	I	ng/L	P423385	
		Carbophenothion	0.21	U	ng/L	P423385	
		Carfentrazone Ethyl	0.11	U	ng/L	P423385	
		Chlorfenapyr	0.19	U	ng/L	P423385	
		Chlorpyrifos Ethyl	0.27	U	ng/L	P423385	
		Chlorpyrifos Methyl	0.054	U	ng/L	P423385	
		Coumaphos	0.54	U	ng/L	P423385	
		Cyanazine	3.5	U	ng/L	P423385	
		Cyprodinil	0.11	U	ng/L	P423385	
		Demeton	1.6	U	ng/L	P423385	
		Diazinon	0.13	U	ng/L	P423385	
		Difenoconazole	0.64	U	ng/L	P423385	
		Dimethenamid	0.52		ng/L	P423385	
		Dimethomorph	0.52	I	ng/L	P423385	
		Disulfoton	0.54	U	ng/L	P423385	
		Dithiopyr	0.67	U	ng/L	P423385	
		EPTC	1.3	U	ng/L	P423385	
		Ethion	0.16	U	ng/L	P423385	
		Ethoprop	0.11	U	ng/L	P423385	
		Etridiazole	0.16	U	ng/L	P423385	
		Fenamiphos	0.54	U	ng/L	P423385	
		Fenbuconazole	0.13	U	ng/L	P423385	
		Fipronil	0.34	I	ng/L	P423385	
		Fipronil Desulfinyl**	0.46	I	ng/L	P423385	
		Fipronil Sulfide	0.57	I	ng/L	P423385	
		Fipronil Sulfone	1.1		ng/L	P423385	
		Fluazifop-P-butyl	0.11	U	ng/L	P423385	
		Fludioxonil	0.13	U	ng/L	P423385	
		Flumioxazin	4.8	U	ng/L	P423385	
		Flutolanil	0.31	I	ng/L	P423385	
		Fluxapyroxad	6.8		ng/L	P423385	
		Fonofos	0.21	U	ng/L	P423385	
		Hexazinone	6.1		ng/L	P423385	
		Imazalil	0.80	U	ng/L	P423385	
		Iprodione	0.64	U	ng/L	P423385	
		Loratadine**	0.38	U	ng/L	P423385	
		Malathion	0.38	U	ng/L	P423385	
		Metalaxyl	2.0	I	ng/L	P423385	
		Metolachlor	8.0		ng/L	P423385	
		Metribuzin	9.5		ng/L	P423385	
		Mevinphos	1.1	U	ng/L	P423385	

Field ID: G3SE0066 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2373813	EPA 8270E	Molinate	0.32	U	ng/L	P423385	
		Myclobutanil	0.27	U	ng/L	P423385	
		Naled	1.6	U	ng/L	P423385	
		Napropamide	0.43	U	ng/L	P423385	
		Norflurazon	2.6		ng/L	P423385	
		Oxadiazon	7.8		ng/L	P423385	
		Oxyfluorfen	0.16	U	ng/L	P423385	
		Parathion Ethyl	0.27	UJ	ng/L	P423385	LCS
		Parathion Methyl	0.59	U	ng/L	P423385	MS
		Pendimethalin	1.1	U	ng/L	P423385	
		Phenytoin**	3.8	U	ng/L	P423385	
		Phorate	0.56	U	ng/L	P423385	
		Prodiamine	0.19	U	ng/L	P423385	
		Prometon	0.97	U	ng/L	P423385	
		Prometryn	0.21	U	ng/L	P423385	
		Pronamide	0.16	U	ng/L	P423385	
		Propanil	0.13	U	ng/L	P423385	
		Propargite	1.6	U	ng/L	P423385	
		Propiconazole	3.9		ng/L	P423385	
		Pyraflufen Ethyl	0.27	U	ng/L	P423385	
		Pyridaben	0.48	U	ng/L	P423385	
		Pyriproxyfen	0.13	U	ng/L	P423385	
		Simazine	0.89	I	ng/L	P423385	
		Stirophos	0.13	U	ng/L	P423385	
		Sulfentrazone	27		ng/L	P423385	
		Tebuconazole	0.64	I	ng/L	P423385	
		Terbufos	0.11	U	ng/L	P423385	
		Terbuthylazine	0.46	U	ng/L	P423385	
		Thiobencarb	0.64	U	ng/L	P423385	
		Triadimefon	0.27	U	ng/L	P423385	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: MS accuracy for ametryn, atrazine, and metribuzin not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Lake Clarke East of Edgewater Circle **Collection Date/Time: 12/07/2022 11:30**

Field ID: G3SE0065 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2373796	DEP SOP: NU-094-1	Color (true)	72	A	PCU	P423287	
	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P423321	
	EPA 300.0 Rev. 2.1	Chloride	61		mg Cl/L	P423673	
		Sulfate	25		mg SO4/L	P423677	
	SM 2320 B-2011	Total Alkalinity	181		mg CaCO3/L	P423719	
	SM 2540 C-2015	TDS	336		mg/L	P423777	
	SM 2540 D-2015	TSS	2	I	mg/L	P423652	
	SM 4500-F- C-2011	Fluoride	0.16		mg F/L	P423722	
2373798	EPA 350.1 Rev. 2.0	Ammonia-N	0.10		mg N/L	P423436	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.43		mg N/L	P423413	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.35		mg N/L	P423362	
	EPA 365.1 Rev. 2.0	Total-P	0.063		mg P/L	P423353	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P423563	
2373808	EPA 8321B	2,4-D	0.029		ug/L	P423328	
		Acesulfame K	0.10	U	ug/L	P423201	
		2,4,5-T	0.0040	U	ug/L	P423328	
		AMPA	0.81		ug/L	P423201	
		Acetaminophen	0.0080	U	ug/L	P423328	
		Acetamiprid	0.0020	U	ug/L	P423328	
		Endothall	0.25	U	ug/L	P423201	
		Glufosinate	0.10	U	ug/L	P423201	
		Glyphosate	1.5		ug/L	P423201	
		Afidopyropen	0.0020	U	ug/L	P423328	
		Bentazon	0.084		ug/L	P423328	
		Sucralose	0.30		ug/L	P423201	
		Benzovindiflupyr	0.0020	U	ug/L	P423328	
		Carbamazepine	0.0024	I	ug/L	P423328	
		Clothianidin	0.0020	U	ug/L	P423328	
		Dinotefuran	0.0069	I	ug/L	P423328	
		Diuron	0.023		ug/L	P423328	
		Fenuron	0.032	U	ug/L	P423328	
		Fluridone	0.043		ug/L	P423328	
		Imazapyr	0.42		ug/L	P423328	
		Hydrocodone	0.0020	U	ug/L	P423328	
		Ibuprofen	0.20	U	ug/L	P423328	
		Imidacloprid	0.036		ug/L	P423328	
		Linuron	0.0040	U	ug/L	P423328	
		Mandestrobin	0.0020	U	ug/L	P423328	
		MCPP	0.0040	U	ug/L	P423328	
		Naproxen	0.0080	U	ug/L	P423328	
		Primidone	0.0040	U	ug/L	P423328	
		Pyraclostrobin	0.0020	U	ug/L	P423328	
		Silvex	0.0040	U	ug/L	P423328	
		Thiamethoxam	0.0020	U	ug/L	P423328	

Field ID: G3SE0065 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2373808	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P423328	
		Triclopyr	0.0040	U	ug/L	P423328	
2373810	EPA 200.7 Rev. 4.4	Calcium	79.3		mg/L	P423334	
		Iron	100	I	ug/L	P423334	
		Magnesium	5.43		mg/L	P423334	
		Potassium	3.5		mg/L	P423334	
		Sodium	39.5		mg/L	P423334	
		Strontium	683		ug/L	P423334	
		Tin	3.0	U	ug/L	P423334	
		Titanium	1.4	I	ug/L	P423334	
		Vanadium	2.9	I	ug/L	P423334	
		Zinc	5.0	U	ug/L	P423334	
	EPA 200.8 Rev. 5.4	Aluminum	29		ug/L	P423334	
		Antimony	0.15	I	ug/L	P423334	
		Arsenic	1.54		ug/L	P423334	
		Barium	22.5		ug/L	P423334	
		Beryllium	0.010	U	ug/L	P423334	
		Boron	56.6		ug/L	P423334	
		Cadmium	0.020	U	ug/L	P423334	
		Chromium	0.43	I	ug/L	P423334	
		Cobalt	0.084		ug/L	P423334	
		Copper	1.36		ug/L	P423334	
		Lead	0.20	U	ug/L	P423334	
		Manganese	11.9		ug/L	P423334	
		Molybdenum	1.15		ug/L	P423334	
		Nickel	0.50	U	ug/L	P423334	
		Selenium	0.30	I	ug/L	P423334	
		Silver	0.010	U	ug/L	P423334	
		Thallium	0.10	U	ug/L	P423334	
	SM 2340 B-2011	Hardness	220		mg/L	P423334	
2373814	EPA 8270E	Oxybenzone**	10	U	ng/L	P423385	
		Acetochlor	0.25	U	ng/L	P423385	
		Octinoxate**	20	U	ng/L	P423385	
		Alachlor	0.25	U	ng/L	P423385	
		Avobenzone**	100	U	ng/L	P423385	
		Ametryn	5.4		ng/L	P423385	
		Atrazine	240		ng/L	P423385	
		PBDE-47**	4.0	U	ng/L	P423385	
		Atrazine Desethyl	16		ng/L	P423385	
		PBDE-99**	5.0	U	ng/L	P423385	
		Azinphos Methyl	2.0	U	ng/L	P423385	
		Tri-o-cresyl Phosphate**	6.0	U	ng/L	P423385	
		Azoxystrobin	6.2		ng/L	P423385	
		Bromacil	1.4	I	ng/L	P423385	

Field ID: G3SE0065 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2373814	EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P423385	
		Butylate	0.40	U	ng/L	P423385	
		Dechlorane Plus**	30	U	ng/L	P423385	
		Caffeine**	15	I	ng/L	P423385	
		Carbophenothion	0.20	U	ng/L	P423385	
		Carfentrazone Ethyl	0.10	U	ng/L	P423385	
		Chlorfenapyr	0.18	U	ng/L	P423385	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P423385	
		Chlorpyrifos Methyl	0.050	U	ng/L	P423385	
		Coumaphos	0.50	U	ng/L	P423385	
		Cyanazine	3.3	U	ng/L	P423385	
		Cyprodinil	0.10	U	ng/L	P423385	
		Demeton	1.5	U	ng/L	P423385	
		Diazinon	0.13	U	ng/L	P423385	
		Difenoconazole	0.60	U	ng/L	P423385	
		Dimethenamid	0.48		ng/L	P423385	
		Dimethomorph	0.52	I	ng/L	P423385	
		Disulfoton	0.50	U	ng/L	P423385	
		Dithiopyr	0.63	U	ng/L	P423385	
		EPTC	1.3	U	ng/L	P423385	
		Ethion	0.15	U	ng/L	P423385	
		Ethoprop	0.10	U	ng/L	P423385	
		Etridiazole	0.15	U	ng/L	P423385	
		Fenamiphos	0.50	U	ng/L	P423385	
		Fenbuconazole	0.13	U	ng/L	P423385	
		Fipronil	0.35	I	ng/L	P423385	
		Fipronil Desulfinyl**	0.44	I	ng/L	P423385	
		Fipronil Sulfide	0.58	I	ng/L	P423385	
		Fipronil Sulfone	0.98		ng/L	P423385	
		Fluazifop-P-butyl	0.10	U	ng/L	P423385	
		Fludioxonil	0.13	U	ng/L	P423385	
		Flumioxazin	4.5	U	ng/L	P423385	
		Flutolanil	0.31	I	ng/L	P423385	
		Fluxapyroxad	7.1		ng/L	P423385	
		Fonofos	0.20	U	ng/L	P423385	
		Hexazinone	6.5		ng/L	P423385	
		Imazalil	0.75	U	ng/L	P423385	
		Iprodione	0.60	U	ng/L	P423385	
		Loratadine**	0.35	U	ng/L	P423385	
		Malathion	0.35	U	ng/L	P423385	
		Metalaxyl	1.9	I	ng/L	P423385	
		Metolachlor	7.4		ng/L	P423385	
		Metribuzin	12		ng/L	P423385	
		Mevinphos	1.1	U	ng/L	P423385	

Field ID: G3SE0065 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2373814	EPA 8270E	Molinate	0.30	U	ng/L	P423385	
		Myclobutanil	0.25	U	ng/L	P423385	
		Naled	1.5	U	ng/L	P423385	
		Napropamide	0.40	U	ng/L	P423385	
		Norflurazon	2.7		ng/L	P423385	
		Oxadiazon	8.1		ng/L	P423385	
		Oxyfluorfen	0.15	U	ng/L	P423385	
		Parathion Ethyl	0.25	UJ	ng/L	P423385	LCS
		Parathion Methyl	0.55	U	ng/L	P423385	MS
		Pendimethalin	1.0	U	ng/L	P423385	
		Phenytoin**	3.5	U	ng/L	P423385	
		Phorate	0.53	U	ng/L	P423385	
		Prodiamine	0.18	U	ng/L	P423385	
		Prometon	0.90	U	ng/L	P423385	
		Prometryn	0.20	U	ng/L	P423385	
		Pronamide	0.15	U	ng/L	P423385	
		Propanil	0.13	U	ng/L	P423385	
		Propargite	1.5	U	ng/L	P423385	
		Propiconazole	4.1		ng/L	P423385	
		Pyraflufen Ethyl	0.25	U	ng/L	P423385	
		Pyridaben	0.45	U	ng/L	P423385	
		Pyriproxyfen	0.13	U	ng/L	P423385	
		Simazine	0.92	I	ng/L	P423385	
		Stirophos	0.13	U	ng/L	P423385	
		Sulfentrazone	29		ng/L	P423385	
		Tebuconazole	0.54	I	ng/L	P423385	
		Terbufos	0.10	U	ng/L	P423385	
		Terbuthylazine	0.43	U	ng/L	P423385	
		Thiobencarb	0.60	U	ng/L	P423385	
		Triadimefon	0.25	U	ng/L	P423385	

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8270E: MS accuracy for ametryn, atrazine, and metribuzin not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB **Collection Date/Time: 12/07/2022 11:40**

Field ID: FB_12072022 Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2373799	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P423287	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P423321	
	EPA 300.0 Rev. 2.1	Chloride	0.59		mg Cl/L	P423673	
		Sulfate	0.20	U	mg SO4/L	P423677	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P423719	
	SM 2540 C-2015	TDS	15	U	mg/L	P423777	
	SM 2540 D-2015	TSS	2	U	mg/L	P423652	
	SM 4500-F- C-2011	Fluoride	0.34		mg F/L	P423722	
2373800	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P423436	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P423663	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P423362	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P423353	
	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P423708	
2373811	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P423334	
		Iron	30	U	ug/L	P423334	
		Magnesium	0.040	U	mg/L	P423334	
		Potassium	0.30	U	mg/L	P423334	
		Sodium	0.50	U	mg/L	P423334	
		Strontium	2.0	U	ug/L	P423334	
		Tin	3.0	U	ug/L	P423334	
		Titanium	0.75	U	ug/L	P423334	
		Vanadium	2.0	U	ug/L	P423334	
		Zinc	5.0	U	ug/L	P423334	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P423334	
		Antimony	0.050	U	ug/L	P423334	
		Arsenic	0.050	U	ug/L	P423334	
		Barium	0.20	U	ug/L	P423334	
		Beryllium	0.010	U	ug/L	P423334	
		Boron	66.3		ug/L	P423334	
		Cadmium	0.020	U	ug/L	P423334	
		Chromium	0.40	U	ug/L	P423334	
		Cobalt	0.020	U	ug/L	P423334	
		Copper	0.40	U	ug/L	P423334	
		Lead	0.20	U	ug/L	P423334	
		Manganese	0.10	U	ug/L	P423334	
		Molybdenum	0.15	U	ug/L	P423334	
		Nickel	0.50	U	ug/L	P423334	
		Selenium	0.20	U	ug/L	P423334	
		Silver	0.010	U	ug/L	P423334	
		Thallium	0.10	U	ug/L	P423334	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Chloride: The result was confirmed on 12/20/2022.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500-F- C-2011: The result was confirmed on 12/20/2022.
EPA 200.8 Rev. 5.4: The boron result was confirmed in the undigested sample on 01/09/2023.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P423287

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423321

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423334

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: P423334

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: P423672

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: P423673

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423676

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423677

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P423436

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423413

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423663

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423362

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423353

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

Reference Method: EPA 8270E
Batch ID: P423385

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423385

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423385

Component	Result	Code	Units
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
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423385

Component	Result	Code	Units
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
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
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P423385

Component	Result	Code	Units
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
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	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
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8321B
Batch ID: P423201

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: P423328

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.20	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P423328

Component	Result	Code	Units
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: P423496

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

Reference Method: SM 2320 B-2011
Batch ID: P423719

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

Reference Method: SM 2540 C-2015
Batch ID: P423777

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P423652

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P423500

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P423722

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P423563

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P423708

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: P423287

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423321

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423334

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	105		P	85 - 115
Iron	101		P	85 - 115
Magnesium	97.2		P	85 - 115
Potassium	94.8		P	85 - 115
Sodium	101		P	85 - 115
Strontium	107		P	85 - 115
Tin	97.2		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	99.4		P	85 - 115
Zinc	99.3		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P423334

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.7		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	101		P	85 - 115
Barium	101		P	85 - 115
Beryllium	104		P	85 - 115
Boron	101		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	98.9		P	85 - 115
Cobalt	106		P	85 - 115
Copper	97.7		P	85 - 115
Lead	102		P	85 - 115
Manganese	101		P	85 - 115
Molybdenum	99.2		P	85 - 115
Nickel	101		P	85 - 115
Selenium	98.5		P	85 - 115
Silver	113		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423672

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423673

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423676

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423677

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P423436

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	91.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423413

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423663

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423362

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423353

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

Reference Method: EPA 8270E
Batch ID: P423385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	88.0		P	42 - 162
Acetochlor	105		P	69 - 123
Alachlor	98.1		P	65 - 118
Ametryn	126		P	58 - 141

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P423385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine	126		P	66 - 128
Atrazine Desethyl	108		P	32 - 125
Avobenzone	99.1		P	40 - 203
Azinphos Methyl	174		P	36 - 197
Azoxystrobin	124		P	58 - 226
Bromacil	117		P	48 - 120
Butylate	56.7		P	27 - 85.0
Caffeine	70.1		P	40 - 137
Carbophenothion	99.0		P	54 - 132
Carfentrazone Ethyl	108		P	60 - 142
Chlorfenapyr	91.5		P	53 - 117
Chlorpyrifos Ethyl	99.5		P	59 - 116
Chlorpyrifos Methyl	116		P	66 - 119
Coumaphos	108		P	11 - 234
Cyanazine	187		P	61 - 248
Cyprodinil	142		P	50 - 147
Dechlorane Plus	99.8		P	47 - 182
Demeton	87.2		P	30 - 138
Diazinon	108		P	67 - 126
Difenoconazole	198		P	38 - 205
Dimethenamid	87.1		P	57 - 111
Dimethomorph	181		P	16 - 212
Disulfoton	100		P	46 - 126
Dithiopyr	95.5		P	62 - 115
EPTC	56.2		P	28 - 80.0
Ethion	93.8		P	24 - 122
Ethoprop	109		P	62 - 113
Etridiazole	68.2		P	28 - 92.0
Fenamiphos	103		P	57 - 128
Fenbuconazole	147		P	52 - 155
Fipronil	97.9		P	63 - 130
Fipronil Desulfinyl	102		P	61 - 130
Fipronil Sulfide	85.3		P	56 - 117
Fipronil Sulfone	88.1		P	52 - 118
Fluazifop-P-butyl	98.6		P	61 - 128
Fludioxonil	99.7		P	59 - 129
Flumioxazin	182		P	30 - 250
Flutolanil	103		P	53 - 127
Fluxapyroxad	128		P	42 - 132
Fonofos	101		P	61 - 110
Hexazinone	119		P	46 - 139
Imazalil	129		P	40 - 139
Iprodione	106		P	40 - 146
Loratadine	107		P	10 - 224
Malathion	108		P	61 - 135
Metalaxyl	97.6		P	58 - 121
Metolachlor	90.9		P	64 - 118
Metribuzin	119		P	45 - 245
Mevinphos	106		P	49 - 118
Molinate	69.8		P	42 - 92.0
Myclobutanil	97.9		P	55 - 127
Naled	88.5		P	10 - 114

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P423385

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Napropamide	121		P	39 - 121
Norflurazon	125		P	55 - 129
Octinoxate	78.1		P	26 - 166
Oxadiazon	107		P	54 - 115
Oxybenzone	77.9		P	49 - 135
Oxyfluorfen	118		P	64 - 139
Parathion Ethyl	113		F	70 - 111
Parathion Methyl	131		P	76 - 136
PBDE-47	77.1		P	41 - 148
PBDE-99	82.0		P	38 - 147
Pendimethalin	88.2		P	52 - 118
Phenytoin	42.3		P	10 - 162
Phorate	104		P	40 - 122
Prodiamine	49.0		P	26 - 141
Prometon	121		P	54 - 122
Prometryn	101		P	61 - 128
Pronamide	107		P	72 - 121
Propanil	128		P	45 - 144
Propargite	123		P	10 - 199
Propiconazole	94.5		P	56 - 127
Pyraflufen Ethyl	124		P	56 - 140
Pyridaben	145		P	26 - 211
Pyriproxyfen	139		P	33 - 194
Simazine	92.7		P	67 - 121
Stirophos	141		P	20 - 142
Sulfentrazone	61.3		P	21 - 144
Tebuconazole	94.1		P	10 - 122
Terbufos	114		P	60 - 129
Terbuthylazine	89.6		P	69 - 113
Thiobencarb	88.1		P	51 - 120
Tri-o-cresyl Phosphate	80.9		P	49 - 150
Triadimefon	87.0		P	56 - 114

Reference Method: EPA 8321B
Batch ID: P423201

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	63.7		P	40 - 150
AMPA	87.1		P	40 - 150
Endothall	106		P	40 - 150
Glufosinate	99.4		P	40 - 150
Glyphosate	94.5		P	40 - 150
Sucralose	128		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P423328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	95.4		P	40 - 150
2,4,5-T	83.9		P	40 - 150
Acetaminophen	81.3		P	30 - 150
Acetamiprid	87.9		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P423328

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Afidopyropen	73.8		P	30 - 150
Bentazon	84.1		P	30 - 150
Benzovindiflupyr	82.3		P	40 - 150
Carbamazepine	76.9		P	40 - 150
Clothianidin	88.6		P	40 - 150
Dinotefuran	99.1		P	40 - 150
Diuron	71.8		P	40 - 150
Fenuron	93.0		P	40 - 150
Fluridone	75.4		P	40 - 150
Hydrocodone	95.5		P	40 - 150
Ibuprofen	71.0		P	40 - 150
Imazapyr	83.1		P	40 - 150
Imidacloprid	82.4		P	40 - 150
Linuron	68.0		P	40 - 150
Mandestrobin	89.8		P	40 - 150
MCPP	85.2		P	40 - 150
Naproxen	86.3		P	40 - 150
Primidone	91.4		P	40 - 150
Pyraclostrobin	77.6		P	40 - 150
Silvex	86.8		P	40 - 150
Thiamethoxam	91.9		P	40 - 150
Tolfenpyrad	59.5		P	30 - 150
Triclopyr	88.6		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P423496

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.2		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P423719

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.4		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P423777

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

Reference Method: SM 2540 D-2015
Batch ID: P423652

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	94.8		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P423500

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P423500

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	96 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P423722

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P423563

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.8		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P423708

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.4		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423334

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373699	Calcium	108		P	80 - 120
2373699	Iron	104	103	P/P	80 - 120
2373699	Magnesium	112	107	P/P	80 - 120
2373699	Potassium	107	103	P/P	80 - 120
2373699	Sodium	114	116	P/P	80 - 120
2373699	Strontium	111	107	P/P	80 - 120
2373699	Tin	103	97.2	P/P	80 - 120
2373699	Titanium	109	102	P/P	80 - 120
2373699	Vanadium	108	102	P/P	80 - 120
2373699	Zinc	107	103	P/P	80 - 120
2373789	Calcium	98.2		P	80 - 120
2373789	Iron	99.9		P	80 - 120
2373789	Magnesium	93.7		P	80 - 120
2373789	Potassium	97.8		P	80 - 120
2373789	Sodium	102		P	80 - 120
2373789	Strontium	106		P	80 - 120
2373789	Tin	99.2		P	80 - 120
2373789	Titanium	100		P	80 - 120
2373789	Vanadium	100		P	80 - 120
2373789	Zinc	112		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P423334

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373699	Aluminum	96.2	96.2	P/P	80 - 120
2373699	Antimony	101	102	P/P	80 - 120
2373699	Arsenic	99.3	99.4	P/P	80 - 120
2373699	Barium	100	101	P/P	80 - 120
2373699	Beryllium	101	101	P/P	80 - 120
2373699	Boron	96.6	99.6	P/P	80 - 120
2373699	Cadmium	101	102	P/P	80 - 120
2373699	Chromium	98.2	97.9	P/P	80 - 120
2373699	Cobalt	106	107	P/P	80 - 120
2373699	Copper	95.4	95.2	P/P	80 - 120
2373699	Lead	100	101	P/P	80 - 120
2373699	Manganese	104	104	P/P	80 - 120
2373699	Molybdenum	101	101	P/P	80 - 120
2373699	Nickel	101	102	P/P	80 - 120
2373699	Selenium	94.3	94.4	P/P	80 - 120
2373699	Silver	111	112	P/P	80 - 120
2373699	Thallium	102	104	P/P	80 - 120
2373789	Aluminum	98.1		P	80 - 120
2373789	Antimony	111		P	80 - 120
2373789	Arsenic	110		P	80 - 120
2373789	Barium	110		P	80 - 120
2373789	Beryllium	99.9		P	80 - 120
2373789	Boron	104		P	80 - 120
2373789	Cadmium	113		P	80 - 120
2373789	Chromium	93.5		P	80 - 120
2373789	Cobalt	113		P	80 - 120
2373789	Copper	94.9		P	80 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P423334

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373789	Lead	106		P	80 - 120
2373789	Manganese	115		P	80 - 120
2373789	Molybdenum	109		P	80 - 120
2373789	Nickel	111		P	80 - 120
2373789	Selenium	111		P	80 - 120
2373789	Silver	110		P	80 - 120
2373789	Thallium	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423672

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373374	Chloride	98.2		P	90 - 110
2373786	Chloride	97.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423673

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373837	Chloride	101		P	90 - 110
2374156	Chloride	99.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423676

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373374	Sulfate	94.0		P	90 - 110
2373786	Sulfate	98.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423677

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373837	Sulfate	96.0		P	90 - 110
2374156	Sulfate	95.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P423436

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373325	Ammonia-N	96.0	95.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423413

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373797	Kjeldahl Nitrogen	92.0	97.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423663

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423663

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2375530	Kjeldahl Nitrogen	105	114	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423362

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373694	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423353

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373787	Total-P	102	104	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P423385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373763	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	84.0	72.7	P/P	26 - 165
2373763	Acetochlor	89.0	92.2	P/P	67 - 124
2373763	Alachlor	78.1	76.6	P/P	60 - 120
2373763	Atrazine Desethyl	72.6	84.1	P/P	15 - 122
2373763	Avobenzone	112	96.5	P/P	37 - 178
2373763	Azinphos Methyl	126	129	P/P	40 - 292
2373763	Azoxystrobin	150	144	P/P	35 - 220
2373763	Bromacil	87.4	102	P/P	45 - 127
2373763	Butylate	39.1	46.4	P/P	20 - 83.0
2373763	Caffeine	68.1	66.6	P/P	10 - 194
2373763	Carbophenothion	80.2	84.1	P/P	57 - 127
2373763	Carfentrazone Ethyl	85.2	81.6	P/P	51 - 141
2373763	Chlorfenapyr	74.3	80.3	P/P	46 - 111
2373763	Chlorpyrifos Ethyl	79.4	81.4	P/P	52 - 120
2373763	Chlorpyrifos Methyl	102	103	P/P	63 - 119
2373763	Coumaphos	83.7	83.7	P/P	10 - 228
2373763	Cyanazine	148	169	P/P	59 - 241
2373763	Cyprodinil	114	121	P/P	47 - 146
2373763	Dechlorane Plus	84.2	65.8	P/P	50 - 150
2373763	Demeton	94.8	94.0	P/P	40 - 136
2373763	Diazinon	105	104	P/P	69 - 132
2373763	Difenoconazole	132	151	P/P	57 - 258
2373763	Dimethenamid	69.0	73.8	P/P	54 - 110
2373763	Dimethomorph	175	207	P/P	28 - 210
2373763	Disulfoton	114	110	P/P	43 - 133
2373763	Dithiopyr	79.2	84.5	P/P	39 - 116
2373763	EPTC	43.6	42.0	P/P	20 - 78.0
2373763	Ethion	55.1	58.0	P/P	17 - 119
2373763	Ethoprop	119	116	P/P	66 - 120
2373763	Etridiazole	56.8	59.9	P/P	28 - 96.0
2373763	Fenamiphos	77.1	82.3	P/P	41 - 126
2373763	Fenbuconazole	104	122	P/P	42 - 169
2373763	Fipronil	85.5	88.3	P/P	61 - 132
2373763	Fipronil Desulfinyl	88.7	94.7	P/P	56 - 132

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P423385

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373763	Fipronil Sulfide	73.8	80.6	P/P	48 - 119
2373763	Fipronil Sulfone	64.5	68.4	P/P	42 - 131
2373763	Fluazifop-P-butyl	82.5	88.5	P/P	53 - 131
2373763	Fludioxonil	76.7	88.3	P/P	56 - 127
2373763	Flumioxazin	164	188	P/P	19 - 300
2373763	Flutolanil	83.4	83.9	P/P	41 - 127
2373763	Fluxapyroxad	88.8	102	P/P	42 - 172
2373763	Fonofos	105	106	P/P	59 - 113
2373763	Hexazinone	107	106	P/P	66 - 122
2373763	Imazalil	126	137	P/P	21 - 283
2373763	Iprodione	77.8	84.7	P/P	43 - 150
2373763	Loratadine	176	163	P/P	23 - 201
2373763	Malathion	91.0	95.5	P/P	58 - 136
2373763	Metalaxyl	83.0	81.9	P/P	55 - 120
2373763	Metolachlor	78.7	78.8	P/P	57 - 121
2373763	Mevinphos	111	114	P/P	50 - 126
2373763	Molinate	63.0	64.8	P/P	42 - 93.0
2373763	Myclobutanil	86.1	84.8	P/P	55 - 125
2373763	Naled	77.5	84.8	P/P	18 - 200
2373763	Napropamide	86.2	100	P/P	39 - 110
2373763	Norflurazon	88.2	101	P/P	48 - 128
2373763	Octinoxate	80.6	67.9	P/P	21 - 159
2373763	Oxadiazon	92.1	93.6	P/P	43 - 112
2373763	Oxybenzone	80.9	68.7	P/P	41 - 142
2373763	Oxyfluorfen	118	123	P/P	64 - 153
2373763	Parathion Ethyl	109	110	P/P	69 - 114
2373763	Parathion Methyl	185	189	F/F	79 - 139
2373763	PBDE-47	72.7	54.3	P/P	27 - 144
2373763	PBDE-99	77.1	65.8	P/P	18 - 150
2373763	Pendimethalin	125	123	P/P	50 - 139
2373763	Phenytoin	28.9	34.6	P/P	10 - 146
2373763	Phorate	104	104	P/P	54 - 161
2373763	Prodiamine	61.3	69.9	P/P	30 - 161
2373763	Prometon	62.3	67.1	P/P	45 - 134
2373763	Prometryn	87.4	92.1	P/P	45 - 137
2373763	Pronamide	99.8	104	P/P	65 - 133
2373763	Propanil	90.3	110	P/P	49 - 142
2373763	Propargite	77.3	86.6	P/P	10 - 203
2373763	Propiconazole	94.2	91.1	P/P	38 - 146
2373763	Pyraflufen Ethyl	82.5	91.9	P/P	34 - 153
2373763	Pyridaben	126	137	P/P	12 - 192
2373763	Pyriproxyfen	84.1	98.0	P/P	33 - 180
2373763	Simazine	98.3	104	P/P	51 - 157
2373763	Stirophos	79.8	95.6	P/P	10 - 128
2373763	Sulfentrazone	87.9	102	P/P	53 - 186
2373763	Tebuconazole	50.2	58.7	P/P	10 - 133
2373763	Terbufos	122	121	P/P	65 - 139
2373763	Terbuthylazine	84.5	87.4	P/P	66 - 117
2373763	Thiobencarb	73.4	76.9	P/P	51 - 119
2373763	Tri-o-cresyl Phosphate	81.5	68.7	P/P	31 - 144
2373763	Triadimefon	67.8	72.3	P/P	48 - 119

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P423201

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373536	Acesulfame K	46.9	52.3	P/P	40 - 150
2373536	AMPA	63.6	59.9	P/P	40 - 150
2373536	Endothall	112	109	P/P	40 - 150
2373536	Glufosinate	88.6	90.2	P/P	40 - 150
2373536	Glyphosate	86.3	71.3	P/P	40 - 150
2373536	Sucralose	110	108	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P423328

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373543	2,4-D	98.3	114	P/P	40 - 150
2373543	2,4,5-T	88.5	90.5	P/P	40 - 150
2373543	Acetaminophen	84.7	84.1	P/P	30 - 150
2373543	Acetamiprid	92.9	96.5	P/P	40 - 150
2373543	Afidopyropen	71.3	74.5	P/P	30 - 150
2373543	Bentazon	74.6	83.0	P/P	30 - 150
2373543	Benzovindiflupyr	81.8	79.5	P/P	40 - 150
2373543	Carbamazepine	92.1	101	P/P	40 - 150
2373543	Clothianidin	96.1	93.6	P/P	40 - 150
2373543	Dinotefuran	113	110	P/P	40 - 150
2373543	Diuron	74.6	73.8	P/P	40 - 150
2373543	Fenuron	87.3	85.8	P/P	40 - 150
2373543	Fluridone	87.8	82.7	P/P	40 - 150
2373543	Hydrocodone	101	101	P/P	40 - 150
2373543	Ibuprofen	74.2	56.3	P/P	40 - 150
2373543	Imazapyr	100	94.2	P/P	40 - 150
2373543	Imidacloprid	100	99.4	P/P	40 - 150
2373543	Linuron	73.6	62.8	P/P	40 - 150
2373543	Mandestrobin	88.8	83.8	P/P	40 - 150
2373543	MCPP	91.0	91.4	P/P	40 - 150
2373543	Naproxen	71.4	95.3	P/P	40 - 150
2373543	Primidone	96.4	89.7	P/P	40 - 150
2373543	Pyraclostrobin	82.5	80.8	P/P	40 - 150
2373543	Silvex	90.4	90.9	P/P	40 - 150
2373543	Thiamethoxam	105	103	P/P	40 - 150
2373543	Tolfenpyrad	47.0	47.2	P/P	30 - 150
2373543	Triclopyr	87.3	98.2	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P423500

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373693	Fluoride	101	100	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P423722

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374317	Fluoride	101	99.7	P/P	94 - 104

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P423563

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2373562	Organic Carbon	99.1	99.1	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P423708

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2374775	Organic Carbon	99.2	99.4	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P423287

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373796	Color (true)	1.33	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P423321

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373693	Turbidity	3.41	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P423334

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373699	Calcium	3.46	Spike	P	0 - 20
2373699	Iron	1.06	Spike	P	0 - 20
2373699	Magnesium	2.53	Spike	P	0 - 20
2373699	Potassium	3.93	Spike	P	0 - 20
2373699	Sodium	1.35	Spike	P	0 - 20
2373699	Strontium	3.89	Spike	P	0 - 20
2373699	Tin	5.96	Spike	P	0 - 20
2373699	Titanium	6.40	Spike	P	0 - 20
2373699	Vanadium	5.78	Spike	P	0 - 20
2373699	Zinc	3.69	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P423334

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373699	Aluminum	0.0125	Spike	P	0 - 20
2373699	Antimony	0.817	Spike	P	0 - 20
2373699	Arsenic	0.146	Spike	P	0 - 20
2373699	Barium	1.06	Spike	P	0 - 20
2373699	Beryllium	0.00677	Spike	P	0 - 20
2373699	Boron	2.76	Spike	P	0 - 20
2373699	Cadmium	0.730	Spike	P	0 - 20
2373699	Chromium	0.273	Spike	P	0 - 20
2373699	Cobalt	0.789	Spike	P	0 - 20
2373699	Copper	0.207	Spike	P	0 - 20
2373699	Lead	0.745	Spike	P	0 - 20
2373699	Manganese	0.672	Spike	P	0 - 20
2373699	Molybdenum	0.411	Spike	P	0 - 20
2373699	Nickel	1.04	Spike	P	0 - 20
2373699	Selenium	0.145	Spike	P	0 - 20
2373699	Silver	0.857	Spike	P	0 - 20
2373699	Thallium	1.50	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423672

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373374	Chloride	0.459	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423673

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373837	Chloride	0.131	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423676

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373374	Sulfate	0.525	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P423677

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373837	Sulfate	0.0365	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P423436

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373325	Ammonia-N	0.196	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423413

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373797	Kjeldahl Nitrogen	3.25	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P423663

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2375530	Kjeldahl Nitrogen	7.60	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P423362

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373694	NO2NO3-N	0.499	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P423353

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373787	Total-P	1.99	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P423385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373763	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	14.4	Spike	P	0 - 37
2373763	Acetochlor	3.50	Spike	P	0 - 28
2373763	Alachlor	1.89	Spike	P	0 - 30
2373763	Ametryn	10.0	Spike	P	0 - 32
2373763	Atrazine	2.46	Spike	P	0 - 41
2373763	Atrazine Desethyl	11.1	Spike	P	0 - 36
2373763	Avobenzone	14.8	Spike	P	0 - 36
2373763	Azinphos Methyl	2.41	Spike	P	0 - 75
2373763	Azoxystrobin	3.15	Spike	P	0 - 39
2373763	Bromacil	15.4	Spike	P	0 - 33
2373763	Butylate	17.0	Spike	P	0 - 44
2373763	Caffeine	2.27	Spike	P	0 - 74
2373763	Carbophenothion	4.70	Spike	P	0 - 25
2373763	Carfentrazone Ethyl	4.31	Spike	P	0 - 27
2373763	Chlorfenapyr	7.82	Spike	P	0 - 24
2373763	Chlorpyrifos Ethyl	2.40	Spike	P	0 - 26
2373763	Chlorpyrifos Methyl	0.392	Spike	P	0 - 26
2373763	Coumaphos	0.000373	Spike	P	0 - 28
2373763	Cyanazine	12.9	Spike	P	0 - 48
2373763	Cyprodinil	5.85	Spike	P	0 - 29
2373763	Dechlorane Plus	24.4	Spike	P	0 - 30
2373763	Demeton	0.879	Spike	P	0 - 33
2373763	Diazinon	0.778	Spike	P	0 - 29
2373763	Difenoconazole	13.3	Spike	P	0 - 34
2373763	Dimethenamid	6.72	Spike	P	0 - 39
2373763	Dimethomorph	16.7	Spike	P	0 - 51
2373763	Disulfoton	3.70	Spike	P	0 - 30
2373763	Dithiopyr	6.52	Spike	P	0 - 26
2373763	EPTC	3.93	Spike	P	0 - 43
2373763	Ethion	5.17	Spike	P	0 - 79
2373763	Ethoprop	2.59	Spike	P	0 - 29
2373763	Etridiazole	5.31	Spike	P	0 - 33
2373763	Fenamiphos	6.55	Spike	P	0 - 40
2373763	Fenbuconazole	15.5	Spike	P	0 - 74
2373763	Fipronil	3.19	Spike	P	0 - 29
2373763	Fipronil Desulfinyl	6.54	Spike	P	0 - 32
2373763	Fipronil Sulfide	8.77	Spike	P	0 - 30
2373763	Fipronil Sulfone	5.80	Spike	P	0 - 33
2373763	Fluazifop-P-butyl	7.01	Spike	P	0 - 38
2373763	Fludioxonil	14.0	Spike	P	0 - 29
2373763	Flumioxazin	14.0	Spike	P	0 - 51
2373763	Flutolanil	0.475	Spike	P	0 - 25
2373763	Fluxapyroxad	12.0	Spike	P	0 - 45
2373763	Fonofos	1.18	Spike	P	0 - 27

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P423385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373763	Hexazinone	0.516	Spike	P	0 - 30
2373763	Imazalil	8.27	Spike	P	0 - 100
2373763	Iprodione	8.44	Spike	P	0 - 33
2373763	Loratadine	7.90	Spike	P	0 - 56
2373763	Malathion	4.85	Spike	P	0 - 37
2373763	Metalaxyl	1.23	Spike	P	0 - 40
2373763	Metolachlor	0.111	Spike	P	0 - 29
2373763	Metribuzin	1.22	Spike	P	0 - 45
2373763	Mevinphos	3.32	Spike	P	0 - 29
2373763	Molinate	2.91	Spike	P	0 - 33
2373763	Myclobutanil	1.60	Spike	P	0 - 26
2373763	Naled	8.96	Spike	P	0 - 37
2373763	Napropamide	15.0	Spike	P	0 - 44
2373763	Norflurazon	11.3	Spike	P	0 - 30
2373763	Octinoxate	17.1	Spike	P	0 - 45
2373763	Oxadiazon	1.55	Spike	P	0 - 28
2373763	Oxybenzone	16.2	Spike	P	0 - 46
2373763	Oxyfluorfen	4.79	Spike	P	0 - 28
2373763	Parathion Ethyl	0.686	Spike	P	0 - 31
2373763	Parathion Methyl	2.46	Spike	P	0 - 29
2373763	PBDE-47	29.0	Spike	P	0 - 36
2373763	PBDE-99	15.9	Spike	P	0 - 40
2373763	Pendimethalin	1.41	Spike	P	0 - 33
2373763	Phenytoin	18.0	Spike	P	0 - 100
2373763	Phorate	0.0915	Spike	P	0 - 36
2373763	Prodiamine	13.0	Spike	P	0 - 71
2373763	Prometon	7.35	Spike	P	0 - 36
2373763	Prometryn	4.88	Spike	P	0 - 28
2373763	Pronamide	4.29	Spike	P	0 - 24
2373763	Propanil	19.9	Spike	P	0 - 28
2373763	Propargite	11.3	Spike	P	0 - 43
2373763	Propiconazole	3.38	Spike	P	0 - 33
2373763	Pyraflufen Ethyl	10.8	Spike	P	0 - 29
2373763	Pyridaben	8.29	Spike	P	0 - 30
2373763	Pyriproxyfen	15.3	Spike	P	0 - 79
2373763	Simazine	5.91	Spike	P	0 - 29
2373763	Stirophos	17.9	Spike	P	0 - 61
2373763	Sulfentrazone	13.1	Spike	P	0 - 33
2373763	Tebuconazole	15.6	Spike	P	0 - 69
2373763	Terbufos	1.19	Spike	P	0 - 29
2373763	Terbuthylazine	3.34	Spike	P	0 - 32
2373763	Thiobencarb	4.59	Spike	P	0 - 26
2373763	Tri-o-cresyl Phosphate	17.1	Spike	P	0 - 33
2373763	Triadimefon	6.46	Spike	P	0 - 28

Reference Method: EPA 8321B
Batch ID: P423201

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373536	Acesulfame K	10.8	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P423201

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373536	AMPA	5.05	Spike	P	0 - 30
2373536	Endothall	2.80	Spike	P	0 - 30
2373536	Glufosinate	1.76	Spike	P	0 - 30
2373536	Glyphosate	17.4	Spike	P	0 - 30
2373536	Sucralose	1.87	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P423328

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373543	2,4-D	14.4	Spike	P	0 - 30
2373543	2,4,5-T	2.21	Spike	P	0 - 30
2373543	Acetaminophen	0.753	Spike	P	0 - 30
2373543	Acetamiprid	3.76	Spike	P	0 - 30
2373543	Afidopyropen	4.43	Spike	P	0 - 30
2373543	Bentazon	7.18	Spike	P	0 - 30
2373543	Benzovindiflupyr	2.78	Spike	P	0 - 30
2373543	Carbamazepine	9.17	Spike	P	0 - 30
2373543	Clothianidin	2.61	Spike	P	0 - 30
2373543	Dinotefuran	1.94	Spike	P	0 - 30
2373543	Diuron	1.04	Spike	P	0 - 30
2373543	Fenuron	1.76	Spike	P	0 - 30
2373543	Fluridone	5.53	Spike	P	0 - 30
2373543	Hydrocodone	0.297	Spike	P	0 - 30
2373543	Ibuprofen	27.4	Spike	P	0 - 30
2373543	Imazapyr	5.36	Spike	P	0 - 30
2373543	Imidacloprid	1.01	Spike	P	0 - 30
2373543	Linuron	15.8	Spike	P	0 - 30
2373543	Mandestrobin	5.81	Spike	P	0 - 30
2373543	MCPP	0.495	Spike	P	0 - 30
2373543	Naproxen	28.7	Spike	P	0 - 30
2373543	Primidone	7.17	Spike	P	0 - 30
2373543	Pyraclostrobin	2.13	Spike	P	0 - 30
2373543	Silvex	0.576	Spike	P	0 - 30
2373543	Thiamethoxam	1.69	Spike	P	0 - 30
2373543	Tolfenpyrad	0.453	Spike	P	0 - 30
2373543	Triclopyr	11.7	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P423496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373693	Total Alkalinity	0.983	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011
Batch ID: P423719

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits

Quality Assurance Report
Precision

Reference Method: SM 2320 B-2011
Batch ID: P423719

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374317	Total Alkalinity	0.0861	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P423777

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373795	TDS	6.45	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P423500

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373693	Fluoride	1.01	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P423722

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374317	Fluoride	0.966	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P423563

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2373562	Organic Carbon	0.0	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P423708

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2374775	Organic Carbon	0.176	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2373807
Field Sample ID: G3SE0066

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	110	P	30 - 160
EPA 8321B	Acetaminophen-d4	88.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	69.7	P	30 - 160
EPA 8321B	Diuron-d6	52.8	P	30 - 160
EPA 8321B	Endothall-d6	97.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	77.3	P	30 - 160
EPA 8321B	Ibuprofen-d3	68.6	P	30 - 160
EPA 8321B	Primidone-d5	90.2	P	30 - 160
EPA 8321B	Sucralose-d6	95.2	P	30 - 160

Lab Sample ID: 2373808
Field Sample ID: G3SE0065

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	110	P	30 - 160
EPA 8321B	Acetaminophen-d4	89.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.9	P	30 - 160
EPA 8321B	Diuron-d6	49.3	P	30 - 160
EPA 8321B	Endothall-d6	77.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	81.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.5	P	30 - 160
EPA 8321B	Primidone-d5	92.5	P	30 - 160
EPA 8321B	Sucralose-d6	87.4	P	30 - 160

Lab Sample ID: 2373813
Field Sample ID: G3SE0066

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	107	P	20 - 200
EPA 8270E	Simazine-d10	124	P	62 - 142
EPA 8270E	Terbufos-d10	79.2	P	58 - 132
EPA 8270E	Terphenyl-d14	109	P	52 - 137

Lab Sample ID: 2373814
Field Sample ID: G3SE0065

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	104	P	20 - 200
EPA 8270E	Simazine-d10	129	P	62 - 142
EPA 8270E	Terbufos-d10	85.6	P	58 - 132
EPA 8270E	Terphenyl-d14	91.7	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A116326
Included Lab Sample IDs: 2373807, 2373808

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	78.8	97.6	P/P	60 - 160
Sucralose	108	82.3	P/P	60 - 160

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A116338
Included Lab Sample IDs: 2373795, 2373796, 2373799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1
Run ID: A116340
Included Lab Sample IDs: 2373795, 2373796, 2373799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.9	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A116352
Included Lab Sample IDs: 2373797, 2373798, 2373800

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A116359
Included Lab Sample IDs: 2373807, 2373808

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	89.2	86.1	P/P	60 - 160
Endothall	84.9	100	P/P	60 - 160
Glufosinate	91.8	95.7	P/P	60 - 160
Glyphosate	103	95.8	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A116385
Included Lab Sample IDs: 2373797, 2373798

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A116391
Included Lab Sample IDs: 2373800

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A116397
Included Lab Sample IDs: 2373807, 2373808

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	87.4	91.3	P/P	50 - 150
2,4,5-T	85.5	94.7	P/P	50 - 150
Acetaminophen	90.9	91.8	P/P	60 - 160
Acetamiprid	98.8	98.4	P/P	50 - 150
Afidopyropen	97.3	112	P/P	50 - 150
Bentazon	107	105	P/P	50 - 160
Bentazon	90.2	89.9	P/P	50 - 160
Benzovindiflupyr	94.1	102	P/P	50 - 150
Carbamazepine	102	105	P/P	60 - 150
Clothianidin	89.6	97.6	P/P	60 - 150
Dinotefuran	103	110	P/P	50 - 150
Diuron	98.2	103	P/P	60 - 160
Fenuron	94.8	96.3	P/P	60 - 150
Fluridone	103	102	P/P	60 - 160
Hydrocodone	102	107	P/P	60 - 150
Ibuprofen	84.2	105	P/P	50 - 160
Imazapyr	101	94.9	P/P	50 - 150
Imidacloprid	98.0	91.9	P/P	60 - 150
Linuron	94.4	86.2	P/P	60 - 150
Mandestrobin	103	102	P/P	50 - 150
MCPP	92.7	92.4	P/P	50 - 150
Naproxen	86.9	103	P/P	50 - 160
Primidone	89.1	98.0	P/P	60 - 150
Pyraclostrobin	100	99.2	P/P	60 - 150
Silvex	93.9	109	P/P	50 - 150
Thiamethoxam	99.7	105	P/P	50 - 150
Tolfenpyrad	99.3	98.4	P/P	60 - 150
Triclopyr	100	101	P/P	50 - 150

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A116398
Included Lab Sample IDs: 2373795, 2373796, 2373799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	101	P/P	90 - 110
Chloride	108	104	P/P	90 - 110
Sulfate	102	102	P/P	90 - 110
Sulfate	106	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A116399
Included Lab Sample IDs: 2373797, 2373798, 2373800

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	94.1	94.5	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A116421
Included Lab Sample IDs: 2373795

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits

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Reference Method: SM 2320 B-2011
Run ID: A116421
Included Lab Sample IDs: 2373795

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.8	95.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A116421
Included Lab Sample IDs: 2373795

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A116447
Included Lab Sample IDs: 2373797, 2373798

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.1	95.4	P/P	90 - 110
Kjeldahl Nitrogen	95.4	97.6	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A116450
Included Lab Sample IDs: 2373797, 2373798

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

Reference Method: EPA 8270E
Run ID: A116485
Included Lab Sample IDs: 2373813, 2373814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	100		P	80 - 120
Avobenzone	97.7		P	80 - 120
Dechlorane Plus	95.2		P	80 - 120
Octinoxate	102		P	80 - 120
Oxybenzone	100		P	80 - 120
PBDE-47	102		P	80 - 120
PBDE-99	102		P	80 - 120
Tri-o-cresyl Phosphate	99.7		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A116543
Included Lab Sample IDs: 2373796, 2373799

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.0	93.2	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A116543
Included Lab Sample IDs: 2373796, 2373799

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

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Reference Method: SM 5310 B-2011
Run ID: A116546
Included Lab Sample IDs: 2373800

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.4	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A116548
Included Lab Sample IDs: 2373800

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.8	96.7	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A116632
Included Lab Sample IDs: 2373813, 2373814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	93.8		P	80 - 120
Ametryn	91.3		P	80 - 120
Atrazine Desethyl	97.3		P	80 - 120
Azinphos Methyl	110		P	80 - 120
Azoxystrobin	96.4		P	80 - 120
Bromacil	93.3		P	80 - 120
Butylate	101		P	80 - 120
Caffeine	104		P	80 - 120
Carbophenothion	102		P	80 - 120
Carfentrazone Ethyl	104		P	80 - 120
Chlorfenapyr	99.4		P	80 - 120
Chlorpyrifos Ethyl	107		P	80 - 120
Chlorpyrifos Methyl	106		P	80 - 120
Coumaphos	103		P	80 - 120
Cyanazine	83.6		P	80 - 120
Cyprodinil	96.0		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	101		P	80 - 120
Difenoconazole	99.3		P	80 - 120
Dimethenamid	105		P	80 - 120
Dimethomorph	87.5		P	80 - 120
Disulfoton	98.9		P	80 - 120
Dithiopyr	100		P	80 - 120
EPTC	98.9		P	80 - 120
Ethion	102		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	97.0		P	80 - 120
Fenamiphos	101		P	80 - 120
Fenbuconazole	96.9		P	80 - 120
Fipronil	103		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	109		P	80 - 120
Fipronil Sulfone	97.9		P	80 - 120
Fluazifop-P-butyl	99.5		P	80 - 120
Fludioxonil	103		P	80 - 120
Flumioxazin	104		P	80 - 120

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Reference Method: EPA 8270E
Run ID: A116632
Included Lab Sample IDs: 2373813, 2373814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Flutolanil	98.3		P	80 - 120
Fluxapyroxad	98.0		P	80 - 120
Fonofos	99.9		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	98.2		P	80 - 120
Iprodione	101		P	80 - 120
Loratadine	103		P	80 - 120
Malathion	108		P	80 - 120
Metalaxyl	104		P	80 - 120
Metolachlor	105		P	80 - 120
Metribuzin	98.6		P	80 - 120
Mevinphos	105		P	80 - 120
Molinate	101		P	80 - 120
Myclobutanil	96.6		P	80 - 120
Naled	106		P	80 - 120
Napropamide	93.5		P	80 - 120
Norflurazon	96.9		P	80 - 120
Oxadiazon	97.3		P	80 - 120
Oxyfluorfen	111		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	120		P	80 - 120
Pendimethalin	116		P	80 - 120
Phenytoin	96.5		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	114		P	80 - 120
Prometon	97.4		P	80 - 120
Prometryn	98.4		P	80 - 120
Pronamide	103		P	80 - 120
Propanil	97.3		P	80 - 120
Propargite	101		P	80 - 120
Propiconazole	102		P	80 - 120
Pyraflufen Ethyl	91.2		P	80 - 120
Pyridaben	96.2		P	80 - 120
Pyriproxyfen	97.1		P	80 - 120
Simazine	103		P	80 - 120
Stirophos	107		P	80 - 120
Sulfentrazone	90.8		P	80 - 120
Tebuconazole	98.0		P	80 - 120
Terbufos	99.6		P	80 - 120
Terbuthylazine	105		P	80 - 120
Thiobencarb	101		P	80 - 120
Triadimefon	97.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A116654
Included Lab Sample IDs: 2373813, 2373814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	100		P	80 - 120
Dimethenamid	100		P	80 - 120
Fipronil Sulfone	101		P	80 - 120

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Reference Method: EPA 8270E
Run ID: A116654
Included Lab Sample IDs: 2373813, 2373814

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Metolachlor	104		P	80 - 120
Metribuzin	98.5		P	80 - 120
Propiconazole	94.9		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A116734
Included Lab Sample IDs: 2373809, 2373810, 2373811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	103	P/P	90 - 110
Calcium	99.2	103	P/P	95 - 105
Iron	100	104	P/P	95 - 105
Iron	102	105	P/P	90 - 110
Magnesium	98.4	102	P/P	95 - 105
Magnesium	99.3	102	P/P	90 - 110
Potassium	102	109	P/P	90 - 110
Potassium	97.9	102	P/P	95 - 105
Sodium	101	105	P/P	95 - 105
Sodium	104	106	P/P	90 - 110
Strontium	102	108	P/P	90 - 110
Strontium	103	109	P/P	95 - 105
Tin	95.8	102	P/P	90 - 110
Tin	99.4	100	P/P	95 - 105
Titanium	94.0	101	P/P	90 - 110
Titanium	99.1	101	P/P	95 - 105
Vanadium	94.5	102	P/P	90 - 110
Vanadium	99.6	101	P/P	95 - 105
Zinc	102	99.8	P/P	95 - 105
Zinc	102	107	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A116816
Included Lab Sample IDs: 2373809, 2373810, 2373811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	95.9	98.0	P/P	90 - 110
Aluminum	98.0	96.4	P/P	90 - 110
Antimony	96.3	96.6	P/P	90 - 110
Antimony	96.6	99.4	P/P	90 - 110
Arsenic	98.4	97.8	P/P	90 - 110
Barium	96.8	96.9	P/P	90 - 110
Barium	96.9	101	P/P	90 - 110
Boron	92.2	94.6	P/P	90 - 110
Cadmium	96.4	97.1	P/P	90 - 110
Cadmium	97.1	99.6	P/P	90 - 110
Chromium	94.9	90.6	P/P	90 - 110
Chromium	95.4	94.9	P/P	90 - 110
Cobalt	100	101	P/P	90 - 110
Copper	95.0	95.2	P/P	90 - 110
Copper	95.2	93.9	P/P	90 - 110
Lead	98.9	100	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A116816
Included Lab Sample IDs: 2373809, 2373810, 2373811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	99.3	98.9	P/P	90 - 110
Manganese	96.0	98.6	P/P	90 - 110
Molybdenum	95.9	97.0	P/P	90 - 110
Molybdenum	97.0	97.3	P/P	90 - 110
Nickel	95.5	97.0	P/P	90 - 110
Selenium	97.5	98.6	P/P	90 - 110
Selenium	98.6	102	P/P	90 - 110
Thallium	97.0	97.6	P/P	90 - 110
Thallium	97.6	99.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A116835
Included Lab Sample IDs: 2373809, 2373810, 2373811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	103	103	P/P	90 - 110
Beryllium	98.9	101	P/P	90 - 110
Beryllium	99.2	98.9	P/P	90 - 110
Boron	102	98.1	P/P	90 - 110
Silver	103	104	P/P	90 - 110
Silver	104	105	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A116857
Included Lab Sample IDs: 2373809, 2373810

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cobalt	103	107	P/P	90 - 110
Manganese	102	109	P/P	90 - 110
Nickel	101	105	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.

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Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision		
						LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	101					1.33	
EPA 180.1 Rev. 2.0	Turbidity	101					3.41	
EPA 200.7 Rev. 4.4	Calcium	105	108	98.2				3.46
	Iron	101	104	103	99.9			1.06
	Magnesium	97.2	112	107	93.7			2.53
	Potassium	94.8	107	103	97.8			3.93
	Sodium	101	114	116	102			1.35
	Strontium	107	111	107	106			3.89
	Tin	97.2	103	97.2	99.2			5.96
	Titanium	101	109	102	100			6.40
	Vanadium	99.4	108	102	100			5.78
	Zinc	99.3	107	103	112			3.69
EPA 200.8 Rev. 5.4	Aluminum	99.7	96.2	96.2	98.1			0.0125
	Antimony	101	101	102	111			0.817
	Arsenic	101	99.3	99.4	110			0.146
	Barium	101	110	100	101			1.06
	Beryllium	104	101	101	99.9			0.0067
	Boron	101	96.6	99.6	104			2.76
	Cadmium	101	101	102	113			0.730
	Chromium	98.9	98.2	97.9	93.5			0.273
	Cobalt	106	113	106	107			0.789
	Copper	97.7	95.4	95.2	94.9			0.207
	Lead	102	100	101	106			0.745
	Manganese	101	115	104	104			0.672
	Molybdenum	99.2	101	101	109			0.411
	Nickel	101	111	101	102			1.04
	Selenium	98.5	94.3	94.4	111			0.145
	Silver	113	111	112	110			0.857
	Thallium	101	102	104	103			1.50
EPA 300.0 Rev. 2.1	Chloride	99.9	98.2	97.0			0.459	
	Chloride	97.8	101	99.6			0.131	
	Sulfate	99.9	94.0	98.5			0.525	
	Sulfate	98.0	96.0	95.5			0.0365	
EPA 350.1 Rev. 2.0	Ammonia-N	91.8	96.0	95.8				0.196
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	92.0	97.0				3.25
	Kjeldahl Nitrogen	101	105	114				7.60
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	100	100				0.499
EPA 365.1 Rev. 2.0	Total-P	105	102	104				1.99
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	88.0	84.0	72.7				14.4
	Acetochlor	105	89.0	92.2				3.50
	Alachlor	98.1	78.1	76.6				1.89
	Ametryn	126						10.0
	Atrazine	126						2.46
	Atrazine Desethyl	108	72.6	84.1				11.1
	Avobenzone	99.1	112	96.5				14.8
	Azinphos Methyl	174	129	126				2.41
	Azoxystrobin	124	144	150				3.15
	Bromacil	117	102	87.4				15.4
	Butylate	56.7	46.4	39.1				17.0
	Caffeine	70.1	66.6	68.1				2.27
	Carbophenothion	99.0	84.1	80.2				4.70
	Carfentrazone Ethyl	108	81.6	85.2				4.31

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Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Chlorfenapyr	91.5	80.3	74.3			7.82
	Chlorpyrifos Ethyl	99.5	81.4	79.4			2.40
	Chlorpyrifos Methyl	116	103	102			0.392
	Coumaphos	108	83.7	83.7			0.0003
	Cyanazine	187	169	148			12.9
	Cyprodinil	142	121	114			5.85
	Dechlorane Plus	99.8	84.2	65.8			24.4
	Demeton	87.2	94.0	94.8			0.879
	Diazinon	108	104	105			0.778
	Difenoconazole	198	151	132			13.3
	Dimethenamid	87.1	73.8	69.0			6.72
	Dimethomorph	181	207	175			16.7
	Disulfoton	100	110	114			3.70
	Dithiopyr	95.5	84.5	79.2			6.52
	EPTC	56.2	42.0	43.6			3.93
	Ethion	93.8	58.0	55.1			5.17
	Ethoprop	109	116	119			2.59
	Etridiazole	68.2	59.9	56.8			5.31
	Fenamiphos	103	82.3	77.1			6.55
	Fenbuconazole	147	122	104			15.5
	Fipronil	97.9	88.3	85.5			3.19
	Fipronil Desulfinyl	102	94.7	88.7			6.54
	Fipronil Sulfide	85.3	80.6	73.8			8.77
	Fipronil Sulfone	88.1	68.4	64.5			5.80
	Fluazifop-P-butyl	98.6	88.5	82.5			7.01
	Fludioxonil	99.7	88.3	76.7			14.0
	Flumioxazin	182	188	164			14.0
	Flutolanil	103	83.9	83.4			0.475
	Fluxapyroxad	128	102	88.8			12.0
	Fonofos	101	106	105			1.18
	Hexazinone	119	106	107			0.516
	Imazalil	129	137	126			8.27
	Iprodione	106	84.7	77.8			8.44
	Loratadine	107	163	176			7.90
	Malathion	108	95.5	91.0			4.85
	Metalaxyl	97.6	81.9	83.0			1.23
	Metolachlor	90.9	78.8	78.7			0.111
	Metribuzin	119					1.22
	Mevinphos	106	114	111			3.32
	Molinate	69.8	64.8	63.0			2.91
	Myclobutanil	97.9	84.8	86.1			1.60
	Naled	88.5	84.8	77.5			8.96
	Napropamide	121	100	86.2			15.0
	Norflurazon	125	101	88.2			11.3
	Octinoxate	78.1	80.6	67.9			17.1
	Oxadiazon	107	93.6	92.1			1.55
	Oxybenzone	77.9	80.9	68.7			16.2
	Oxyfluorfen	118	123	118			4.79
	Parathion Ethyl	113	110	109			0.686
	Parathion Methyl	131	189	185			2.46
	PBDE-47	77.1	72.7	54.3			29.0
	PBDE-99	82.0	77.1	65.8			15.9
	Pendimethalin	88.2	123	125			1.41
	Phenytoin	42.3	34.6	28.9			18.0

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Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Phorate	104	104	104			0.0915
	Prodiamine	49.0	69.9	61.3			13.0
	Prometon	121	67.1	62.3			7.35
	Prometryn	101	92.1	87.4			4.88
	Pronamide	107	104	99.8			4.29
	Propanil	128	110	90.3			19.9
	Propargite	123	86.6	77.3			11.3
	Propiconazole	94.5	91.1	94.2			3.38
	Pyraflufen Ethyl	124	91.9	82.5			10.8
	Pyridaben	145	137	126			8.29
	Pyriproxyfen	139	98.0	84.1			15.3
	Simazine	92.7	104	98.3			5.91
	Stirophos	141	95.6	79.8			17.9
	Sulfentrazone	61.3	102	87.9			13.1
	Tebuconazole	94.1	58.7	50.2			15.6
	Terbufos	114	121	122			1.19
	Terbuthylazine	89.6	87.4	84.5			3.34
	Thiobencarb	88.1	76.9	73.4			4.59
	Tri-o-cresyl Phosphate	80.9	81.5	68.7			17.1
	Triadimefon	87.0	72.3	67.8			6.46
EPA 8321B	2,4-D	95.4	98.3	114			14.4
	2,4,5-T	83.9	88.5	90.5			2.21
	Acesulfame K	63.7	46.9	52.3			10.8
	Acetaminophen	81.3	84.7	84.1			0.753
	Acetamiprid	87.9	92.9	96.5			3.76
	Afidopyropen	73.8	71.3	74.5			4.43
	AMPA	87.1	63.6	59.9			5.05
	Bentazon	84.1	74.6	83.0			7.18
	Benzovindiflupyr	82.3	81.8	79.5			2.78
	Carbamazepine	76.9	92.1	101			9.17
	Clothianidin	88.6	96.1	93.6			2.61
	Dinotefuran	99.1	113	110			1.94
	Diuron	71.8	74.6	73.8			1.04
	Endothall	106	112	109			2.80
	Fenuron	93.0	87.3	85.8			1.76
	Fluridone	75.4	87.8	82.7			5.53
	Glufosinate	99.4	88.6	90.2			1.76
	Glyphosate	94.5	86.3	71.3			17.4
	Hydrocodone	95.5	101	101			0.297
	Ibuprofen	71.0	74.2	56.3			27.4
	Imazapyr	83.1	100	94.2			5.36
	Imidacloprid	82.4	100	99.4			1.01
	Linuron	68.0	73.6	62.8			15.8
	Mandestrobin	89.8	88.8	83.8			5.81
	MCPP	85.2	91.0	91.4			0.495
	Naproxen	86.3	71.4	95.3			28.7
	Primidone	91.4	96.4	89.7			7.17
	Pyraclostrobin	77.6	82.5	80.8			2.13
	Silvex	86.8	90.4	90.9			0.576
	Sucralose	128	110	108			1.87
	Thiamethoxam	91.9	105	103			1.69
	Tolfenpyrad	59.5	47.0	47.2			0.453
	Triclopyr	88.6	87.3	98.2			11.7
SM 2320 B-2011	Total Alkalinity	97.2				0.983	

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
SM 2320 B-2011	Total Alkalinity	97.4				0.0861	
SM 2540 C-2015	TDS	98.0				6.45	
SM 2540 D-2015	TSS	94.8					
SM 4500-F- C-2011	Fluoride	100	101	100			1.01
	Fluoride	102	101	99.7			0.966
SM 5310 B-2011	Organic Carbon	96.8	99.1	99.1			0.0
	Organic Carbon	95.4	99.2	99.4			0.176

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2373795, 2373796, 2373799
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2373795, 2373796, 2373799
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2373809, 2373810, 2373811
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2373809, 2373810, 2373811
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2373795, 2373796, 2373799
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2373795, 2373796, 2373799
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2373797, 2373798, 2373800
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2373797, 2373798, 2373800
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2373797, 2373798, 2373800
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2373797, 2373798, 2373800
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2373813, 2373814
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2373813, 2373814
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2373807, 2373808
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2373795, 2373796, 2373799
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2373809, 2373810
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2373795, 2373796, 2373799
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2373795, 2373796, 2373799
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2373795, 2373796, 2373799
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2373797, 2373798, 2373800

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	12/08/2022			12/08/2022 13:36	Samantha L Bates	2373795
	12/08/2022			12/08/2022 13:38	Samantha L Bates	2373796
	12/08/2022			12/08/2022 13:39	Samantha L Bates	2373799
EPA 180.1 Rev. 2.0	12/08/2022			12/08/2022 13:01	Chandler E Cox	2373795
	12/08/2022			12/08/2022 13:02	Chandler E Cox	2373796
	12/08/2022			12/08/2022 13:04	Chandler E Cox	2373799
EPA 200.7 Rev. 4.4	12/08/2022	12/09/2022 12:00	Vijayalakshmi Reddy	01/04/2023 12:11	McKinley C Carter	2373811
	12/08/2022	12/09/2022 12:00	Vijayalakshmi Reddy	01/04/2023 15:05	McKinley C Carter	2373809
	12/08/2022	12/09/2022 12:00	Vijayalakshmi Reddy	01/04/2023 15:10	McKinley C Carter	2373810
EPA 200.8 Rev. 5.4	12/08/2022	12/09/2022 12:00	Vijayalakshmi Reddy	01/09/2023 16:26	Megan Whitefoot	2373811
	12/08/2022	12/09/2022 12:00	Vijayalakshmi Reddy	01/09/2023 18:22	Megan Whitefoot	2373809
	12/08/2022	12/09/2022 12:00	Vijayalakshmi Reddy	01/09/2023 18:31	Megan Whitefoot	2373810
	12/08/2022	12/09/2022 12:00	Vijayalakshmi Reddy	01/10/2023 19:09	Megan Whitefoot	2373811
	12/08/2022	12/09/2022 12:00	Vijayalakshmi Reddy	01/10/2023 21:05	Megan Whitefoot	2373809
	12/08/2022	12/09/2022 12:00	Vijayalakshmi Reddy	01/10/2023 21:14	Megan Whitefoot	2373810
	12/08/2022	12/09/2022 12:00	Vijayalakshmi Reddy	01/11/2023 20:00	Megan Whitefoot	2373809
	12/08/2022	12/09/2022 12:00	Vijayalakshmi Reddy	01/11/2023 20:09	Megan Whitefoot	2373810
EPA 300.0 Rev. 2.1	12/08/2022			12/15/2022 01:29	Anna M. Plaviak	2373795
	12/08/2022			12/15/2022 11:05	Anna M. Plaviak	2373796
	12/08/2022			12/15/2022 11:20	Anna M. Plaviak	2373799
EPA 350.1 Rev. 2.0	12/08/2022			12/13/2022 11:23	Ping Hua	2373797
	12/08/2022			12/13/2022 11:25	Ping Hua	2373798
	12/08/2022			12/13/2022 11:26	Ping Hua	2373800
EPA 351.2 Rev. 2.0	12/08/2022	12/13/2022 13:13	Samantha L Bates	12/14/2022 16:26	Samantha L Bates	2373797
	12/08/2022	12/13/2022 13:13	Samantha L Bates	12/14/2022 16:46	Samantha L Bates	2373798
	12/08/2022	12/16/2022 11:30	Judith K. Clark	12/19/2022 10:34	Samantha L Bates	2373800
EPA 353.2 Rev. 2.0	12/08/2022			12/09/2022 11:28	Beverly Y. Sanders	2373797
	12/08/2022			12/09/2022 11:30	Beverly Y. Sanders	2373798
	12/08/2022			12/09/2022 11:31	Beverly Y. Sanders	2373800
EPA 365.1 Rev. 2.0	12/08/2022	12/09/2022 15:40	Adam P Silver	12/12/2022 10:15	James L Waggerby	2373797
	12/08/2022	12/09/2022 15:40	Adam P Silver	12/12/2022 10:16	James L Waggerby	2373798
	12/08/2022	12/09/2022 15:40	Adam P Silver	12/12/2022 13:44	Simonne.V. Calhoun	2373800
EPA 8270E	12/08/2022	12/12/2022 08:30	Rasheda Ghaffari	12/15/2022 18:56	Arthur Maknenko	2373813
	12/08/2022	12/12/2022 08:30	Rasheda Ghaffari	12/15/2022 19:21	Arthur Maknenko	2373814
	12/08/2022	12/12/2022 08:30	Rasheda Ghaffari	12/17/2022 20:05	Michael Poppell	2373813
	12/08/2022	12/12/2022 08:30	Rasheda Ghaffari	12/17/2022 20:31	Michael Poppell	2373814
	12/08/2022	12/12/2022 08:30	Rasheda Ghaffari	12/24/2022 02:49	Michael Poppell	2373813
	12/08/2022	12/12/2022 08:30	Rasheda Ghaffari	12/24/2022 03:16	Michael Poppell	2373813
	12/08/2022	12/12/2022 08:30	Rasheda Ghaffari	12/24/2022 03:42	Michael Poppell	2373814
	12/08/2022	12/12/2022 08:30	Rasheda Ghaffari	12/24/2022 04:09	Michael Poppell	2373814

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	12/08/2022	12/08/2022 11:00	Umesh Chiluwal	12/08/2022 11:12	Umesh Chiluwal	2373807
	12/08/2022	12/08/2022 11:00	Umesh Chiluwal	12/08/2022 11:27	Umesh Chiluwal	2373808
	12/08/2022	12/08/2022 11:00	Umesh Chiluwal	12/08/2022 18:05	Umesh Chiluwal	2373807
	12/08/2022	12/08/2022 11:00	Umesh Chiluwal	12/08/2022 18:18	Umesh Chiluwal	2373808
	12/08/2022	12/09/2022 13:00	Hoor Shaik	12/13/2022 18:44	Juyoung Kim	2373807
	12/08/2022	12/09/2022 13:00	Hoor Shaik	12/13/2022 19:03	Juyoung Kim	2373808
	12/08/2022	12/09/2022 13:00	Hoor Shaik	12/14/2022 10:22	Juyoung Kim	2373807
SM 2320 B-2011	12/08/2022			12/14/2022 07:20	Dale L. Simmons	2373795
	12/08/2022			12/17/2022 07:49	Dale L. Simmons	2373796
	12/08/2022			12/17/2022 07:59	Dale L. Simmons	2373799
SM 2340 B-2011	12/08/2022			01/04/2023 15:05	McKinley C Carter	2373809
	12/08/2022			01/04/2023 15:10	McKinley C Carter	2373810
SM 2540 C-2015	12/08/2022			12/13/2022 14:45	Yijie Li	2373795, 2373796, 2373799
SM 2540 D-2015	12/08/2022			12/13/2022 14:45	Yijie Li	2373795, 2373796, 2373799
SM 4500-F- C-2011	12/08/2022			12/14/2022 07:20	Dale L. Simmons	2373795
	12/08/2022			12/17/2022 07:49	Dale L. Simmons	2373796
	12/08/2022			12/17/2022 07:59	Dale L. Simmons	2373799
SM 5310 B-2011	12/08/2022			12/14/2022 18:55	Khloe J Berg	2373797
	12/08/2022			12/14/2022 19:11	Khloe J Berg	2373798
	12/08/2022			12/16/2022 21:08	Elise M. Gillis	2373800