Chemical Analysis Report

CEN-DIST-2023-05-18-01

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

Event Description: **Run 2**
Request ID: **RQ-2023-05-15-21**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
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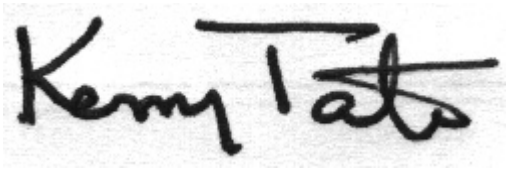
Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 14-JUN-2023 10:40



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: TURNBULL BAY 12 KM S OF TURNBULL BAY RD **Collection Date/Time: 05/17/2023 11:52**

Field ID: G5CE0130 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410731	DEP SOP: NU-094-1	Color (true)	39		PCU	P430069	
	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P430079	
	EPA 300.0 Rev. 2.1	Chloride	1.5E+04		mg Cl/L	P430368	
		Sulfate	2.0E+03		mg SO4/L	P430372	
	SM 2320 B-2011	Total Alkalinity	143		mg CaCO3/L	P430440	
	SM 2540 C-2015	TDS	2.46E+04		mg/L	P430684	
	SM 2540 D-2015	TSS	18		mg/L	P430522	RPD
	SM 4500-F- C-2011	Fluoride	0.95		mg F/L	P430444	MS
2410732	EPA 350.1 Rev. 2.0	Ammonia-N	0.032		mg N/L	P430337	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.80		mg N/L	P430235	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.015		mg N/L	P430296	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P430216	
	SM 5310 B-2011	Organic Carbon	9.9		mg C/L	P430727	
2410775	EPA 8321B	Aldicarb	0.020	U	ug/L	P430052	
		Aldicarb Sulfone	0.0020	U	ug/L	P430052	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P430052	MS
		Carbaryl	0.0020	U	ug/L	P430052	
		Carbofuran	0.0020	U	ug/L	P430052	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P430052	
		Methiocarb	0.0020	U	ug/L	P430052	
		Methomyl	0.0020	U	ug/L	P430052	
		Oxamyl	0.0020	U	ug/L	P430052	
		Propoxur	0.0020	U	ug/L	P430052	
2410776		2,4-D	0.0063	I	ug/L	P430178	
		Acesulfame K	0.10	U	ug/L	P430081	
		2,4,5-T	0.0040	U	ug/L	P430178	
		AMPA	10	U	ug/L	P430081	
		Acetaminophen	0.0080	U	ug/L	P430178	
		Acetamiprid	0.0020	U	ug/L	P430178	
		Endothall	0.25	U	ug/L	P430081	
		Glufosinate	10	U	ug/L	P430081	
		Glyphosate	10	U	ug/L	P430081	
		Afidopyropen	0.0020	U	ug/L	P430178	
		Bentazon	0.30		ug/L	P430178	
		Sucralose	0.79		ug/L	P430081	
		Benzovindiflupyr	0.0020	U	ug/L	P430178	
		Carbamazepine	0.0016	I	ug/L	P430178	
		Clothianidin	0.0035	I	ug/L	P430178	
		Dinotefuran	0.0020	U	ug/L	P430178	
		Diuron	0.0022	I	ug/L	P430178	
		Fenuron	0.032	U	ug/L	P430178	
		Fluridone	0.011		ug/L	P430178	
		Imazapyr	0.15		ug/L	P430178	

Field ID: G5CE0130 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410776	EPA 8321B	Hydrocodone	0.0020	U	ug/L	P430178	
		Ibuprofen	0.080	U	ug/L	P430178	
		Imidacloprid	0.0020	U	ug/L	P430178	MS
		Linuron	0.0040	U	ug/L	P430178	
		Mandestrobin	0.0020	U	ug/L	P430178	
		MCPP	0.0020	U	ug/L	P430178	
		Naproxen	0.0080	U	ug/L	P430178	
		Primidone	0.0052	I	ug/L	P430178	
		Pyraclostrobin	0.0020	U	ug/L	P430178	
		Silvex	0.0040	U	ug/L	P430178	
		Thiamethoxam	0.0020	U	ug/L	P430178	
		Tolfenpyrad	0.0020	U	ug/L	P430178	
		Triclopyr	0.0040	U	ug/L	P430178	
2410779	EPA 8270E	Aldrin	0.67	U	ng/L	P430198	
		Alpha-BHC	0.10	U	ng/L	P430198	
		Alpha-Chlordane	0.21	U	ng/L	P430198	
		PCB-1016	2.1	U	ng/L	P430198	
		Beta-BHC	0.10	U	ng/L	P430198	
		PCB-1221	2.1	U	ng/L	P430198	
		Beta-Cyfluthrin	1.3	U	ng/L	P430198	
		PCB-1232	2.1	U	ng/L	P430198	
		Bifenthrin	0.51	U	ng/L	P430198	
		PCB-1242	2.1	U	ng/L	P430198	
		Carbophenothion	0.92	U	ng/L	P430198	
		PCB-1248	2.1	U	ng/L	P430198	
		Chlorothalonil	3.7	U	ng/L	P430198	
		PCB-1254	2.1	U	ng/L	P430198	
		Cis-Nonachlor	0.21	U	ng/L	P430198	
		PCB-1260	2.1	U	ng/L	P430198	
		Cypermethrin	1.5	U	ng/L	P430198	
		Dacthal	0.15	U	ng/L	P430198	
		DDD-p,p'	0.26	U	ng/L	P430198	
		DDE-p,p'	0.21	U	ng/L	P430198	
		DDT-p,p'	0.26	U	ng/L	P430198	
		Delta-BHC	0.41	U	ng/L	P430198	
		Deltamethrin	1.3	U	ng/L	P430198	
		Dichlobenil	0.26	U	ng/L	P430198	
		Dicofol	1.3	U	ng/L	P430198	
		Dieldrin	0.41	U	ng/L	P430198	
		Endosulfan I	0.41	U	ng/L	P430198	
		Endosulfan II	0.41	U	ng/L	P430198	
		Endosulfan Sulfate	0.31	U	ng/L	P430198	
		Endrin	0.41	U	ng/L	P430198	
		Endrin Aldehyde	0.77	U	ng/L	P430198	
		Endrin Ketone	0.41	U	ng/L	P430198	

Field ID: G5CE0130 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410779	EPA 8270E	Esfenvalerate	0.77	U	ng/L	P430198	
		Ethalfluralin	0.15	U	ng/L	P430198	
		Fenpropathrin	0.26	U	ng/L	P430198	
		Gamma-BHC	0.13	U	ng/L	P430198	
		Gamma-Chlordane	0.21	U	ng/L	P430198	
		Heptachlor	0.21	U	ng/L	P430198	
		Heptachlor Epoxide	0.26	U	ng/L	P430198	
		Hexachlorobenzene**	1.0	U	ng/L	P430198	
		Kepone	5.1	UJ	ng/L	P430198	CCV
		Lambda-Cyhalothrin	0.77	U	ng/L	P430198	
		Methoprene	0.77	U	ng/L	P430198	
		Methoxychlor	0.31	U	ng/L	P430198	
		MGK-264	0.21	U	ng/L	P430198	
		Mirex	0.36	U	ng/L	P430198	
		Oxychlordane	0.31	U	ng/L	P430198	
		Permethrin	1.6	U	ng/L	P430198	
		Phenothrin	0.92	U	ng/L	P430198	
		Piperonyl Butoxide	0.15	U	ng/L	P430198	
		Prallethrin	2.1	U	ng/L	P430198	
		Tau-Fluvalinate	0.26	U	ng/L	P430198	
		Tetramethrin	0.77	U	ng/L	P430198	
		Trans-Nonachlor	0.21	U	ng/L	P430198	
		Triclosan Methyl	0.15	U	ng/L	P430198	
		Trifluralin	0.30	I	ng/L	P430198	
	EPA 8276	Chlordane	2.1	U	ng/L	P430198	
		Toxaphene	15	U	ng/L	P430198	
2410780	EPA 8270E	Oxybenzone**	10	U	ng/L	P430033	
		Acetochlor	0.20	U	ng/L	P430033	
		Octinoxate**	20	U	ng/L	P430033	
		Alachlor	0.40	U	ng/L	P430033	
		Avobenzone**	100	U	ng/L	P430033	MS
		Ametryn	2.1	I	ng/L	P430033	
		Atrazine	17		ng/L	P430033	
		PBDE-47**	4.0	U	ng/L	P430033	
		Atrazine Desethyl	6.8		ng/L	P430033	
		PBDE-99**	5.1	U	ng/L	P430033	
		Azinphos Methyl	3.0	U	ng/L	P430033	
		Tri-o-cresyl Phosphate**	6.1	U	ng/L	P430033	
		Azoxystrobin	0.40	U	ng/L	P430033	
		Bromacil	0.61	U	ng/L	P430033	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	UJ	ng/L	P430033	LCS
		Butylate	0.20	U	ng/L	P430033	
		Dechlorane Plus**	30	U	ng/L	P430033	
		Caffeine**	8.1	I	ng/L	P430033	

Field ID: G5CE0130 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410780	EPA 8270E	Dechlorane 602**	5.1	U	ng/L	P430033	RPD
		Carbophenothion	0.51	U	ng/L	P430033	
		Dechlorane 603**	4.0	U	ng/L	P430033	
		Carfentrazone Ethyl	0.15	U	ng/L	P430033	
		Hexabromobenzene**	6.1	U	ng/L	P430033	
		Chlorfenapyr	0.30	U	ng/L	P430033	
		PBB-153**	8.1	U	ng/L	P430033	MS, RPD
		Chlorpyrifos Ethyl	0.30	U	ng/L	P430033	
		Pentabromotoluene**	3.0	U	ng/L	P430033	
		Chlorpyrifos Methyl	0.10	U	ng/L	P430033	
		Tris(2-chloroethyl) phosphate (TCEP)**	71	U	ng/L	P430033	
		Coumaphos	1.1	U	ng/L	P430033	RPD
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	38	I	ng/L	P430033	
		Cyanazine	5.1	U	ng/L	P430033	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.7	I	ng/L	P430033	
		Cyprodinil	0.20	U	ng/L	P430033	
		Tetradecachloro-m-terphenyl**	7.6	U	ng/L	P430033	MS
		Demeton	3.5	U	ng/L	P430033	
		Diazinon	0.13	U	ng/L	P430033	
		Difenoconazole	0.61	U	ng/L	P430033	MS, RPD
		Dimethenamid	0.10	U	ng/L	P430033	
		Dimethomorph	0.30	U	ng/L	P430033	
		Disulfoton	0.61	U	ng/L	P430033	
		Dithiopyr	1.0	U	ng/L	P430033	
		EPTC	0.51	U	ng/L	P430033	
		Ethion	0.30	U	ng/L	P430033	
		Ethoprop	0.13	U	ng/L	P430033	
		Etridiazole	0.10	U	ng/L	P430033	
		Fenamiphos	0.46	U	ng/L	P430033	
		Fenbuconazole	0.51	U	ng/L	P430033	MS
		Fipronil	0.21	I	ng/L	P430033	
		Fipronil Desulfinyl**	0.84		ng/L	P430033	
		Fipronil Sulfide	0.29	I	ng/L	P430033	
		Fipronil Sulfone	0.98		ng/L	P430033	
		Fluazifop-P-butyl	0.10	U	ng/L	P430033	
		Fludioxonil	0.10	U	ng/L	P430033	
		Flumioxazin	3.0	U	ng/L	P430033	RPD
		Flutolanil	0.10	U	ng/L	P430033	
		Fluxapyroxad	0.30	I	ng/L	P430033	
		Fonofos	0.15	U	ng/L	P430033	
		Hexazinone	0.51	U	ng/L	P430033	
		Imazalil	0.66	U	ng/L	P430033	
		Iprodione	0.51	U	ng/L	P430033	RPD
		Loratadine**	0.30	U	ng/L	P430033	

Field ID: G5CE0130 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410780	EPA 8270E	Malathion	0.35	U	ng/L	P430033	
		Metalaxyl	0.51	U	ng/L	P430033	
		Metolachlor	1.0	I	ng/L	P430033	
		Metribuzin	0.40	U	ng/L	P430033	
		Mevinphos	1.0	U	ng/L	P430033	
		Molinate	0.25	U	ng/L	P430033	
		Myclobutanil	0.35	U	ng/L	P430033	
		Naled	2.5	U	ng/L	P430033	
		Napropamide	0.71	U	ng/L	P430033	
		Norflurazon	1.0	U	ng/L	P430033	
		Oxadiazon	1.1	I	ng/L	P430033	
		Oxyfluorfen	0.20	U	ng/L	P430033	
		Parathion Ethyl	0.15	U	ng/L	P430033	
		Parathion Methyl	0.20	U	ng/L	P430033	
		Pendimethalin	0.76	U	ng/L	P430033	
		Phenytoin**	5.4	U	ng/L	P430033	
		Phorate	0.25	U	ng/L	P430033	
		Prodiamine	0.20	U	ng/L	P430033	
		Prometon	3.0	U	ng/L	P430033	
		Prometryn	0.35	U	ng/L	P430033	
		Pronamide	0.10	U	ng/L	P430033	
		Propanil	0.10	U	ng/L	P430033	
		Propargite	0.81	U	ng/L	P430033	
		Propiconazole	0.61	U	ng/L	P430033	
		Pyraflufen Ethyl	0.30	U	ng/L	P430033	
		Pyridaben	1.4	U	ng/L	P430033	RPD
		Pyriproxyfen	0.25	U	ng/L	P430033	
		Simazine	6.7		ng/L	P430033	
		Stirophos	0.40	U	ng/L	P430033	
		Sulfentrazone	6.7	I	ng/L	P430033	
		Tebuconazole	1.6	I	ng/L	P430033	
		Terbufos	0.20	U	ng/L	P430033	
		Terbuthylazine	0.20	U	ng/L	P430033	
		Thiobencarb	0.51	U	ng/L	P430033	RPD
		Triadimefon	0.15	U	ng/L	P430033	
2410781	EPA 200.7 Rev. 4.4	Calcium	332		mg/L	P430250	
		Iron	690		ug/L	P430250	
		Magnesium	914		mg/L	P430250	
		Potassium	290		mg/L	P430250	
		Sodium	7.36E+03		mg/L	P430250	
		Strontium	5.59E+03		ug/L	P430250	
		Tin	300	U	ug/L	P430250	
		Titanium	19		ug/L	P430250	
		Vanadium	8.0	U	ug/L	P430250	
		Zinc	20	U	ug/L	P430250	

Field ID: G5CE0130 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410781	EPA 200.8 Rev. 5.4	Aluminum	525		ug/L	P430250	
		Antimony	0.20	U	ug/L	P430250	
		Arsenic	1.91		ug/L	P430250	
		Barium	29.0		ug/L	P430250	
		Beryllium	0.10	U	ug/L	P430250	
		Boron	3.34E+03		ug/L	P430250	
		Cadmium	0.080	U	ug/L	P430250	
		Chromium	4.0	U	ug/L	P430250	
		Cobalt	0.22	I	ug/L	P430250	
		Copper	1.6	U	ug/L	P430250	
		Lead	2.0	U	ug/L	P430250	
		Manganese	30.8		ug/L	P430250	
		Molybdenum	7.7		ug/L	P430250	
		Nickel	2.0	U	ug/L	P430250	
		Selenium	0.80	U	ug/L	P430250	
		Silver	0.040	U	ug/L	P430250	
		Thallium	1.0	U	ug/L	P430250	
	SM 2340 B-2011	Hardness	4.59E+03		mg/L	P430250	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8321B: MS accuracy and/or precision for several analytes could not be assessed due to high concentration of parameter in the spiked sample.
EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium, potassium, sodium and strontium are unavailable because of high analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable because of high analyte concentration in the QC sample.

Sample Location: SPRUCE CREEK AT RUSSEL PROPERTY **Collection Date/Time: 05/17/2023 10:33**

Field ID: G5CE0159 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410729	DEP SOP: NU-094-1	Color (true)	37		PCU	P430069	
	EPA 180.1 Rev. 2.0	Turbidity	2.1		NTU	P430079	
	EPA 300.0 Rev. 2.1	Chloride	300		mg Cl/L	P430367	
		Sulfate	38		mg SO4/L	P430370	
	SM 2320 B-2011	Total Alkalinity	180		mg CaCO3/L	P430537	
	SM 2540 C-2015	TDS	688		mg/L	P430683	
	SM 2540 D-2015	TSS	2	U	mg/L	P430520	
	SM 4500-F- C-2011	Fluoride	0.15		mg F/L	P430544	RPD
2410730	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P430410	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.60		mg N/L	P430980	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P430478	
	EPA 365.1 Rev. 2.0	Total-P	0.059		mg P/L	P430722	
	SM 5310 B-2011	Organic Carbon	9.6		mg C/L	P430150	
2410773	EPA 8321B	Aldicarb	0.020	U	ug/L	P430052	
		Aldicarb Sulfone	0.0020	U	ug/L	P430052	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P430052	MS
		Carbaryl	0.0020	U	ug/L	P430052	
		Carbofuran	0.0020	U	ug/L	P430052	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P430052	
		Methiocarb	0.0020	U	ug/L	P430052	
		Methomyl	0.0020	U	ug/L	P430052	
		Oxamyl	0.0020	U	ug/L	P430052	
		Propoxur	0.0020	U	ug/L	P430052	
2410774		2,4-D	0.046		ug/L	P430178	
		Acesulfame K	0.10	U	ug/L	P429908	
		2,4,5-T	0.0040	U	ug/L	P430178	
		AMPA	0.31	I	ug/L	P429908	
		Acetaminophen	0.0080	U	ug/L	P430178	
		Acetamiprid	0.0020	U	ug/L	P430178	
		Endothall	0.25	U	ug/L	P429908	
		Glufosinate	0.10	U	ug/L	P429908	
		Glyphosate	0.35	I	ug/L	P429908	
		Afidopyropen	0.0020	U	ug/L	P430178	
		Bentazon	1.3		ug/L	P430178	
		Sucralose	1.7		ug/L	P429908	
		Benzovindiflupyr	0.0020	U	ug/L	P430178	
		Carbamazepine	0.0025	I	ug/L	P430178	
		Clothianidin	0.046		ug/L	P430178	
		Dinotefuran	0.0034	I	ug/L	P430178	
		Diuron	0.0020	U	ug/L	P430178	
		Fenuron	0.032	U	ug/L	P430178	
		Fluridone	0.080		ug/L	P430178	
		Imazapyr	1.1	I	ug/L	P430178	
		Hydrocodone	0.0020	U	ug/L	P430178	

Field ID: G5CE0159 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410774	EPA 8321B	Ibuprofen	0.080	U	ug/L	P430178	
		Imidacloprid	0.019	J	ug/L	P430178	MS
		Linuron	0.0040	U	ug/L	P430178	
		Mandestrobin	0.0020	U	ug/L	P430178	
		MCPP	0.0025	I	ug/L	P430178	
		Naproxen	0.0080	U	ug/L	P430178	
		Primidone	0.0080	I	ug/L	P430178	
		Pyraclostrobin	0.0020	U	ug/L	P430178	
		Silvex	0.0040	U	ug/L	P430178	
		Thiamethoxam	0.0020	U	ug/L	P430178	
		Tolfenpyrad	0.0020	U	ug/L	P430178	
		Triclopyr	0.0040	U	ug/L	P430178	
2410777	EPA 8270E	Aldrin	0.68	U	ng/L	P430198	
		Alpha-BHC	0.11	U	ng/L	P430198	
		Alpha-Chlordane	0.21	U	ng/L	P430198	
		PCB-1016	2.1	U	ng/L	P430198	
		Beta-BHC	0.11	U	ng/L	P430198	
		PCB-1221	2.1	U	ng/L	P430198	
		Beta-Cyfluthrin	1.3	U	ng/L	P430198	
		PCB-1232	2.1	U	ng/L	P430198	
		Bifenthrin	0.53	U	ng/L	P430198	
		PCB-1242	2.1	U	ng/L	P430198	
		Carbophenothion	0.95	U	ng/L	P430198	
		PCB-1248	2.1	U	ng/L	P430198	
		Chlorothalonil	3.8	U	ng/L	P430198	
		PCB-1254	2.1	U	ng/L	P430198	
		Cis-Nonachlor	0.21	U	ng/L	P430198	
		PCB-1260	2.1	U	ng/L	P430198	
		Cypermethrin	1.6	U	ng/L	P430198	
		Dacthal	0.16	U	ng/L	P430198	
		DDD-p,p'	0.26	U	ng/L	P430198	
		DDE-p,p'	0.21	U	ng/L	P430198	
		DDT-p,p'	0.26	U	ng/L	P430198	
		Delta-BHC	0.42	U	ng/L	P430198	
		Deltamethrin	1.3	U	ng/L	P430198	
		Dichlobenil	0.26	U	ng/L	P430198	
		Dicofol	1.3	U	ng/L	P430198	
		Dieldrin	0.42	U	ng/L	P430198	
		Endosulfan I	0.42	U	ng/L	P430198	
		Endosulfan II	0.42	U	ng/L	P430198	
		Endosulfan Sulfate	0.32	U	ng/L	P430198	
		Endrin	0.42	U	ng/L	P430198	
		Endrin Aldehyde	0.79	U	ng/L	P430198	
		Endrin Ketone	0.42	U	ng/L	P430198	
		Esfenvalerate	0.79	U	ng/L	P430198	

Field ID: G5CE0159 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410777	EPA 8270E	Ethalfluralin	0.17	I	ng/L	P430198	
		Fenpropathrin	0.26	U	ng/L	P430198	
		Gamma-BHC	0.13	U	ng/L	P430198	
		Gamma-Chlordane	0.21	U	ng/L	P430198	
		Heptachlor	0.21	U	ng/L	P430198	
		Heptachlor Epoxide	0.26	U	ng/L	P430198	
		Hexachlorobenzene**	1.1	U	ng/L	P430198	
		Kepone	5.3	UJ	ng/L	P430198	CCV
		Lambda-Cyhalothrin	0.79	U	ng/L	P430198	
		Methoprene	0.79	U	ng/L	P430198	
		Methoxychlor	0.32	U	ng/L	P430198	
		MGK-264	0.21	U	ng/L	P430198	
		Mirex	0.37	U	ng/L	P430198	
		Oxychlordane	0.32	U	ng/L	P430198	
		Permethrin	1.7	U	ng/L	P430198	
		Phenothrin	0.95	U	ng/L	P430198	
		Piperonyl Butoxide	0.16	U	ng/L	P430198	
		Prallethrin	2.1	U	ng/L	P430198	
		Tau-Fluvalinate	0.26	U	ng/L	P430198	
		Tetramethrin	0.79	U	ng/L	P430198	
		Trans-Nonachlor	0.21	U	ng/L	P430198	
		Triclosan Methyl	0.16	U	ng/L	P430198	
		Trifluralin	0.29	I	ng/L	P430198	
	EPA 8276	Chlordane	2.1	U	ng/L	P430198	
		Toxaphene	16	U	ng/L	P430198	
2410778	EPA 8270E	Oxybenzone**	10	U	ng/L	P430033	
		Acetochlor	0.21	U	ng/L	P430033	
		Octinoxate**	21	U	ng/L	P430033	
		Alachlor	0.41	U	ng/L	P430033	
		Avobenzone**	100	U	ng/L	P430033	MS
		Ametryn	2.0	I	ng/L	P430033	
		Atrazine	130		ng/L	P430033	
		PBDE-47**	4.1	U	ng/L	P430033	
		Atrazine Desethyl	63		ng/L	P430033	
		PBDE-99**	5.2	U	ng/L	P430033	
		Azinphos Methyl	3.1	U	ng/L	P430033	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P430033	
		Azoxystrobin	0.41	U	ng/L	P430033	
		Bromacil	0.62	U	ng/L	P430033	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	UJ	ng/L	P430033	LCS
		Butylate	0.21	U	ng/L	P430033	
		Dechlorane Plus**	31	U	ng/L	P430033	
		Caffeine**	7.7	U	ng/L	P430033	
		Dechlorane 602**	5.2	U	ng/L	P430033	RPD

Field ID: G5CE0159 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410778	EPA 8270E	Carbophenothion	0.52	U	ng/L	P430033	
		Dechlorane 603**	4.1	U	ng/L	P430033	
		Carfentrazone Ethyl	0.15	U	ng/L	P430033	
		Hexabromobenzene**	6.2	U	ng/L	P430033	
		Chlorfenapyr	0.31	U	ng/L	P430033	
		PBB-153**	8.3	U	ng/L	P430033	MS, RPD
		Chlorpyrifos Ethyl	0.31	U	ng/L	P430033	
		Pentabromotoluene**	3.1	U	ng/L	P430033	
		Chlorpyrifos Methyl	0.10	U	ng/L	P430033	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P430033	
		Coumaphos	1.1	U	ng/L	P430033	RPD
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P430033	
		Cyanazine	5.2	U	ng/L	P430033	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P430033	
		Cyprodinil	0.21	U	ng/L	P430033	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P430033	MS
		Demeton	3.6	U	ng/L	P430033	
		Diazinon	0.13	U	ng/L	P430033	
		Difenoconazole	0.62	U	ng/L	P430033	MS, RPD
		Dimethenamid	0.10	U	ng/L	P430033	
		Dimethomorph	0.31	U	ng/L	P430033	
		Disulfoton	0.62	U	ng/L	P430033	
		Dithiopyr	2.5	I	ng/L	P430033	
		EPTC	0.52	U	ng/L	P430033	
		Ethion	0.31	U	ng/L	P430033	
		Ethoprop	0.13	U	ng/L	P430033	
		Etridiazole	0.10	U	ng/L	P430033	
		Fenamiphos	0.46	U	ng/L	P430033	
		Fenbuconazole	0.52	U	ng/L	P430033	MS
		Fipronil	1.3		ng/L	P430033	
		Fipronil Desulfinyl**	4.2		ng/L	P430033	
		Fipronil Sulfide	1.5		ng/L	P430033	
		Fipronil Sulfone	4.9		ng/L	P430033	
		Fluazifop-P-butyl	0.10	U	ng/L	P430033	
		Fludioxonil	0.10	U	ng/L	P430033	
		Flumioxazin	3.1	U	ng/L	P430033	RPD
		Flutolanil	0.10	U	ng/L	P430033	
		Fluxapyroxad	2.0		ng/L	P430033	
		Fonofos	0.15	U	ng/L	P430033	
		Hexazinone	0.52	U	ng/L	P430033	
		Imazalil	0.67	U	ng/L	P430033	
		Iprodione	0.52	U	ng/L	P430033	RPD
		Loratadine**	0.31	U	ng/L	P430033	
		Malathion	0.36	U	ng/L	P430033	

Field ID: G5CE0159 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410778	EPA 8270E	Metalaxyl	0.52	U	ng/L	P430033	
		Metolachlor	82		ng/L	P430033	
		Metribuzin	0.54	I	ng/L	P430033	
		Mevinphos	1.0	U	ng/L	P430033	
		Molinate	0.26	U	ng/L	P430033	
		Myclobutanil	0.45	I	ng/L	P430033	
		Naled	2.6	U	ng/L	P430033	
		Napropamide	0.72	U	ng/L	P430033	
		Norflurazon	1.0	U	ng/L	P430033	
		Oxadiazon	2.2		ng/L	P430033	
		Oxyfluorfen	0.21	U	ng/L	P430033	
		Parathion Ethyl	0.15	U	ng/L	P430033	
		Parathion Methyl	0.21	U	ng/L	P430033	
		Pendimethalin	0.77	U	ng/L	P430033	
		Phenytoin**	5.5	U	ng/L	P430033	
		Phorate	0.26	U	ng/L	P430033	
		Prodiamine	0.37	I	ng/L	P430033	
		Prometon	3.1	U	ng/L	P430033	
		Prometryn	0.36	U	ng/L	P430033	
		Pronamide	0.10	U	ng/L	P430033	
		Propanil	0.10	U	ng/L	P430033	
		Propargite	0.83	U	ng/L	P430033	
		Propiconazole	1.3	I	ng/L	P430033	
		Pyraflufen Ethyl	0.31	U	ng/L	P430033	
		Pyridaben	1.4	U	ng/L	P430033	RPD
		Pyriproxyfen	0.26	U	ng/L	P430033	
		Simazine	21		ng/L	P430033	
		Stirophos	0.41	U	ng/L	P430033	
		Sulfentrazone	110		ng/L	P430033	
		Tebuconazole	1.4	U	ng/L	P430033	
		Terbufos	0.21	U	ng/L	P430033	
		Terbuthylazine	0.21	U	ng/L	P430033	
		Thiobencarb	0.52	U	ng/L	P430033	RPD
		Triadimefon	0.15	U	ng/L	P430033	

Ref. Method and Comment:
EPA 8321B: MS accuracy and/or precision for several analytes could not be assessed due to high concentration of parameter in the spiked sample.
Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter in the sample spiked.

Sample Location: LITTLE HAW CREEK AT 25M DS OF SR40 **Collection Date/Time: 05/17/2023 13:24**

Field ID: G2CE0128 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2410733	DEP SOP: NU-094-1	Color (true)	290		PCU	P430069	
	EPA 180.1 Rev. 2.0	Turbidity	4.5		NTU	P430079	
	EPA 300.0 Rev. 2.1	Chloride	20	A	mg Cl/L	P430368	
		Sulfate	0.40	I A	mg SO4/L	P430372	
	SM 2320 B-2011	Total Alkalinity	7.2		mg CaCO3/L	P430537	
	SM 2540 C-2015	TDS	112		mg/L	P430683	
	SM 2540 D-2015	TSS	8	I	mg/L	P430520	
	SM 4500-F- C-2011	Fluoride	0.036	I	mg F/L	P430544	RPD
2410734	EPA 350.1 Rev. 2.0	Ammonia-N	0.64		mg N/L	P430410	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.2		mg N/L	P430239	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P430478	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P430722	
	SM 5310 B-2011	Organic Carbon	32		mg C/L	P430150	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P430069

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430079

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430250

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: P430250

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: P430367

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: P430368

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430370

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430372

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430337

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430410

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430235

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430239

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430980

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430296

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430478

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430216

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430722

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

Reference Method: EPA 8270E
Batch ID: P430033

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.50	U	ng/L
Carbophenothion	0.50	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Carfentrazone Ethyl	0.15	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorfenapyr	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Ethyl	0.30	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430033

Component	Result	Code	Units
Coumaphos	1.0	U	ng/L
Coumaphos	1.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyanazine	5.0	U	ng/L
Cyprodinil	0.20	U	ng/L
Cyprodinil	0.20	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 602	5.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane 603	4.0	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	3.5	U	ng/L
Demeton	3.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenamiphos	0.45	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fenbuconazole	0.50	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil	0.20	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Desulfinyl	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfide	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fipronil Sulfone	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Fludioxonil	0.10	U	ng/L
Flumioxazin	3.0	U	ng/L
Flumioxazin	3.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430033

Component	Result	Code	Units
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fluxapyroxad	0.25	U	ng/L
Fonofos	0.15	U	ng/L
Fonofos	0.15	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexabromobenzene	6.0	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.65	U	ng/L
Imazalil	0.65	U	ng/L
Iprodione	0.50	U	ng/L
Iprodione	0.50	U	ng/L
Loratadine	0.30	U	ng/L
Loratadine	0.30	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.50	U	ng/L
Metalaxyl	0.50	U	ng/L
Metolachlor	0.75	U	ng/L
Metolachlor	0.75	U	ng/L
Metribuzin	0.40	U	ng/L
Metribuzin	0.40	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.25	U	ng/L
Molinate	0.25	U	ng/L
Myclobutanil	0.35	U	ng/L
Myclobutanil	0.35	U	ng/L
Naled	2.5	U	ng/L
Naled	2.5	U	ng/L
Napropamide	0.70	U	ng/L
Napropamide	0.70	U	ng/L
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxadiazon	0.35	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Oxyfluorfen	0.20	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Ethyl	0.15	U	ng/L
Parathion Methyl	0.20	U	ng/L
Parathion Methyl	0.20	U	ng/L
PBB-153	8.0	U	ng/L
PBB-153	8.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430033

Component	Result	Code	Units
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	U	ng/L
Pendimethalin	0.75	U	ng/L
Pendimethalin	0.75	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Pentabromotoluene	3.0	U	ng/L
Phenytoin	5.3	U	ng/L
Phenytoin	5.3	U	ng/L
Phorate	0.25	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.20	U	ng/L
Prodiamine	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L
Sulfentrazone	1.4	U	ng/L
Sulfentrazone	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Tebuconazole	1.4	U	ng/L
Terbufos	0.20	U	ng/L
Terbufos	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Terbuthylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430033

Component	Result	Code	Units
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	2.5	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L
Tris(2-chloroethyl) phosphate (TCEP)	70	U	ng/L

Reference Method: EPA 8270E
Batch ID: P430198

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430198

Component	Result	Code	Units
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfluralin	0.15	U	ng/L
Ethalfluralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P430198

Component	Result	Code	Units
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P430198

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B
Batch ID: P429908

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: P430052

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P430081

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: P430178

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	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P430440

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

Reference Method: SM 2320 B-2011
Batch ID: P430537

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

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 C-2015
Batch ID: P430683

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-2015
Batch ID: P430684

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P430520

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P430522

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P430444

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P430544

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P430150

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

Reference Method: SM 5310 B-2011
Batch ID: P430727

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: P430069

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.7		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430079

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430250

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	97.9		P	85 - 115
Iron	97.8		P	85 - 115
Magnesium	94.8		P	85 - 115
Potassium	97.3		P	85 - 115
Sodium	93.3		P	85 - 115
Strontium	95.4		P	85 - 115
Tin	97.1		P	85 - 115
Titanium	98.2		P	85 - 115
Vanadium	96.6		P	85 - 115
Zinc	94.6		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430250

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.9		P	85 - 115
Antimony	96.3		P	85 - 115
Arsenic	97.6		P	85 - 115
Barium	98.4		P	85 - 115
Beryllium	93.6		P	85 - 115
Boron	102		P	85 - 115
Cadmium	97.1		P	85 - 115
Chromium	95.8		P	85 - 115
Cobalt	99.0		P	85 - 115
Copper	96.1		P	85 - 115
Lead	98.6		P	85 - 115
Manganese	94.8		P	85 - 115
Molybdenum	95.9		P	85 - 115
Nickel	96.4		P	85 - 115
Selenium	97.6		P	85 - 115
Silver	100		P	85 - 115
Thallium	97.6		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430367

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: P430368

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430370

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: P430372

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430337

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430410

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430235

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: P430239

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430980

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430296

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	96.0		P	90 - 110

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430478

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	108		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430216

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430722

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

Reference Method: EPA 8270E
Batch ID: P430033

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	34.7		F	42 - 162
Acetochlor	83.3		P	69 - 123
Alachlor	117		P	65 - 118
Ametryn	97.7		P	58 - 141
Atrazine	92.1		P	73 - 118
Atrazine Desethyl	93.9		P	32 - 125
Avobenzone	168		P	40 - 203
Azinphos Methyl	94.7		P	36 - 197
Azoxystrobin	104		P	58 - 226
Bromacil	92.9		P	48 - 120
Butylate	61.6		P	27 - 85.0
Caffeine	107		P	40 - 137
Carbophenothion	130		P	54 - 132
Carfentrazone Ethyl	101		P	60 - 142
Chlorfenapyr	85.0		P	53 - 117
Chlorpyrifos Ethyl	86.7		P	59 - 116
Chlorpyrifos Methyl	94.1		P	66 - 119
Coumaphos	114		P	11 - 234
Cyanazine	202		P	61 - 248
Cyprodinil	95.6		P	50 - 147
Dechlorane 602	99.8		P	50 - 150
Dechlorane 603	124		P	50 - 150
Dechlorane Plus	129		P	47 - 182
Demeton	65.6		P	30 - 138
Diazinon	92.8		P	67 - 126
Difenoconazole	116		P	38 - 205
Dimethenamid	91.3		P	57 - 111
Dimethomorph	132		P	16 - 212
Disulfoton	83.7		P	46 - 126
Dithiopyr	89.4		P	62 - 115
EPTC	47.0		P	28 - 80.0
Ethion	82.1		P	24 - 122
Ethoprop	80.9		P	62 - 113
Etridiazole	87.2		P	28 - 92.0

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P430033

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fenamiphos	84.1		P	57 - 128
Fenbuconazole	86.9		P	52 - 155
Fipronil	125		P	63 - 130
Fipronil Desulfinyl	127		P	61 - 130
Fipronil Sulfide	91.3		P	56 - 117
Fipronil Sulfone	88.2		P	52 - 118
Fluazifop-P-butyl	80.4		P	61 - 128
Fludioxonil	95.3		P	59 - 129
Flumioxazin	111		P	30 - 250
Flutolanil	96.3		P	53 - 127
Fluxapyroxad	124		P	42 - 132
Fonofos	88.3		P	61 - 110
Hexabromobenzene	116		P	50 - 150
Hexazinone	92.0		P	46 - 139
Imazalil	97.7		P	40 - 139
Iprodione	132		P	40 - 146
Loratadine	120		P	10 - 224
Malathion	129		P	61 - 135
Metalaxyl	112		P	58 - 121
Metolachlor	106		P	64 - 118
Metribuzin	100		P	45 - 245
Mevinphos	88.0		P	49 - 118
Molinate	58.2		P	42 - 92.0
Myclobutanil	89.5		P	55 - 127
Naled	43.1		P	10 - 114
Napropamide	81.3		P	39 - 121
Norflurazon	77.8		P	55 - 129
Octinoxate	120		P	26 - 166
Oxadiazon	81.1		P	54 - 115
Oxybenzone	119		P	49 - 135
Oxyfluorfen	108		P	64 - 139
Parathion Ethyl	98.3		P	70 - 111
Parathion Methyl	92.7		P	76 - 136
PBB-153	89.0		P	50 - 150
PBDE-47	104		P	41 - 148
PBDE-99	64.6		P	38 - 147
Pendimethalin	103		P	52 - 118
Pentabromotoluene	111		P	50 - 150
Phenytoin	58.2		P	10 - 162
Phorate	84.4		P	40 - 122
Prodiamine	72.1		P	26 - 141
Prometon	85.5		P	54 - 122
Prometryn	128		P	61 - 128
Pronamide	93.6		P	72 - 121
Propanil	139		P	45 - 144
Propargite	119		P	10 - 199
Propiconazole	86.4		P	56 - 127
Pyraflufen Ethyl	68.1		P	56 - 140
Pyridaben	119		P	26 - 211
Pyriproxyfen	130		P	33 - 194
Simazine	79.7		P	67 - 121
Stirophos	105		P	20 - 142

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P430033

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfentrazone	108		P	21 - 144
Tebuconazole	101		P	10 - 122
Terbufos	87.2		P	60 - 129
Terbuthylazine	105		P	69 - 113
Tetradecachloro-m-terphenyl	180		P	70 - 200
Thiobencarb	84.2		P	51 - 120
Tri-o-cresyl Phosphate	123		P	49 - 150
Triadimefon	79.3		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	125		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	110		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	123		P	70 - 180

Reference Method: EPA 8270E
Batch ID: P430198

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	54.9		P	10 - 92.0
Alpha-BHC	91.2		P	75 - 107
Alpha-Chlordane	84.7		P	50 - 108
Beta-BHC	105		P	36 - 138
Beta-Cyfluthrin	97.4		P	20 - 161
Bifenthrin	59.5		P	10 - 119
Carbophenothion	51.1		P	19 - 94.0
Chlorothalonil	102		P	26 - 186
Cis-Nonachlor	82.7		P	42 - 119
Cypermethrin	102		P	22 - 150
Dacthal	95.0		P	72 - 119
DDD-p,p'	85.8		P	45 - 107
DDE-p,p'	78.9		P	48 - 106
DDT-p,p'	71.9		P	48 - 110
Delta-BHC	110		P	54 - 140
Deltamethrin	120		P	22 - 189
Dichlobenil	77.6		P	36 - 117
Dicofol	71.7		P	46 - 155
Dieldrin	82.4		P	54 - 110
Endosulfan I	87.1		P	59 - 105
Endosulfan II	95.7		P	51 - 118
Endosulfan Sulfate	98.3		P	57 - 121
Endrin	86.2		P	10 - 120
Endrin Aldehyde	103		P	34 - 118
Endrin Ketone	78.9		P	69 - 177
Esfenvalerate	95.6		P	23 - 168
Ethalfluralin	73.4		P	49 - 99.0
Fenpropathrin	95.6		P	34 - 117
Gamma-BHC	108		P	72 - 117
Gamma-Chlordane	81.8		P	43 - 106
Heptachlor	67.6		P	41 - 98.0
Heptachlor Epoxide	87.3		P	57 - 106
Hexachlorobenzene	65.6		P	36 - 99.0
Kepone	190		P	16 - 215
Lambda-Cyhalothrin	84.0		P	21 - 177
Methoprene	63.6		P	10 - 119

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P430198

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Methoxychlor	86.6		P	60 - 112
MGK-264	87.1		P	26 - 122
Mirex	72.4		P	10 - 169
Oxychlordane	80.3		P	43 - 105
PCB-1016	96.4		P	48 - 112
PCB-1260	95.8		P	44 - 118
Permethrin	80.0		P	24 - 148
Phenothrin	56.8		P	10 - 106
Piperonyl Butoxide	94.6		P	10 - 139
Prallethrin	76.9		P	17 - 109
Tau-Fluvalinate	86.8		P	13 - 131
Tetramethrin	85.6		P	10 - 132
Trans-Nonachlor	82.5		P	44 - 106
Triclosan Methyl	86.4		P	59 - 109
Trifluralin	78.6		P	44 - 101

Reference Method: EPA 8276
Batch ID: P430198

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	88.8		P	61 - 116
Toxaphene	97.4		P	48 - 124

Reference Method: EPA 8321B
Batch ID: P429908

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	92.2		P	40 - 150
AMPA	106		P	40 - 150
Endothall	85.6		P	40 - 150
Glufosinate	84.6		P	40 - 150
Glyphosate	102		P	40 - 150
Sucralose	117		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430052

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	76.4		P	40 - 150
Aldicarb	50.7		P	30 - 150
Aldicarb Sulfone	91.1		P	40 - 150
Aldicarb Sulfoxide	97.0		P	40 - 150
Carbaryl	79.1		P	40 - 150
Carbofuran	64.7		P	40 - 150
Methiocarb	77.2		P	40 - 150
Methomyl	84.4		P	40 - 150
Oxamyl	88.5		P	40 - 150
Propoxur	73.1		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P430081

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.8		P	40 - 150
AMPA	121		P	40 - 150
Endothall	88.2		P	40 - 150
Glufosinate	93.7		P	40 - 150
Glyphosate	106		P	40 - 150
Sucralose	122		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430178

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	95.5		P	40 - 150
2,4,5-T	80.0		P	40 - 150
Acetaminophen	86.0		P	30 - 150
Acetamiprid	73.5		P	40 - 150
Afidopyropen	77.3		P	30 - 150
Bentazon	98.3		P	30 - 150
Benzovindiflupyr	77.9		P	40 - 150
Carbamazepine	75.7		P	40 - 150
Clothianidin	90.2		P	40 - 150
Dinotefuran	88.8		P	40 - 150
Diuron	76.7		P	40 - 150
Fenuron	87.0		P	40 - 150
Fluridone	88.4		P	40 - 150
Hydrocodone	83.5		P	40 - 150
Ibuprofen	81.1		P	40 - 150
Imazapyr	89.0		P	40 - 150
Imidacloprid	84.5		P	40 - 150
Linuron	79.8		P	40 - 150
Mandestrobin	76.3		P	40 - 150
MCPP	93.6		P	40 - 150
Naproxen	60.5		P	40 - 150
Primidone	81.1		P	40 - 150
Pyraclostrobin	78.0		P	40 - 150
Silvex	88.6		P	40 - 150
Thiamethoxam	89.7		P	40 - 150
Tolfenpyrad	63.7		P	30 - 150
Triclopyr	84.5		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P430440

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.8		P	92 - 105

Reference Method: SM 2320 B-2011
Batch ID: P430537

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.8		P	92 - 105

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P430683

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

Reference Method: SM 2540 C-2015
Batch ID: P430684

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

Reference Method: SM 2540 D-2015
Batch ID: P430520

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	103		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P430522

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.7		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P430444

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	104		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P430544

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P430150

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.5		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P430727

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.9		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410517	Iron	95.7	96.4	P/P	80 - 120
2410517	Tin	94.6	96.2	P/P	80 - 120
2410517	Titanium	95.8	103	P/P	80 - 120
2410517	Vanadium	96.8	95.2	P/P	80 - 120
2410517	Zinc	91.2	90.9	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410517	Aluminum	105	109	P/P	70 - 130
2410517	Antimony	102	102	P/P	70 - 130
2410517	Arsenic	105	106	P/P	70 - 130
2410517	Barium	105	107	P/P	70 - 130
2410517	Beryllium	107	104	P/P	70 - 130
2410517	Cadmium	94.8	93.4	P/P	70 - 130
2410517	Chromium	95.7	95.0	P/P	70 - 130
2410517	Cobalt	89.4	90.2	P/P	70 - 130
2410517	Copper	90.2	90.1	P/P	70 - 130
2410517	Lead	105	105	P/P	70 - 130
2410517	Manganese	83.5	83.5	P/P	70 - 130
2410517	Molybdenum	108	109	P/P	70 - 130
2410517	Nickel	90.3	90.3	P/P	70 - 130
2410517	Selenium	101	102	P/P	70 - 130
2410517	Silver	91.5	91.9	P/P	70 - 130
2410517	Thallium	99.1	102	P/P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430367

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410488	Chloride	101		P	90 - 110
2410592	Chloride	99.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430368

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410733	Chloride	102		P	90 - 110
2410862	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430370

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410488	Sulfate	98.7		P	90 - 110
2410592	Sulfate	99.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430372

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

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430372

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410733	Sulfate	102		P	90 - 110
2410862	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430337

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410310	Ammonia-N	99.6	98.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430410

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410616	Ammonia-N	97.4	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430235

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410513	Kjeldahl Nitrogen	101	107	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430980

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2411218	Kjeldahl Nitrogen	77.3	81.6	F/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430296

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410529	NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430478

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410616	NO2NO3-N	107	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430216

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2411706	Total-P	94.9	97.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430722

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410681	Total-P	104	105	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P430033

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410434	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.3	127	P/P	26 - 165
2410434	Acetochlor	72.7	79.9	P/P	67 - 124
2410434	Alachlor	89.0	94.0	P/P	60 - 120
2410434	Ametryn	121	93.8	P/P	54 - 216
2410434	Atrazine Desethyl	86.2	107	P/P	15 - 122
2410434	Avobenzone	135	184	P/F	37 - 178
2410434	Azinphos Methyl	65.9	85.7	P/P	40 - 292
2410434	Azoxystrobin	81.3	96.4	P/P	35 - 220
2410434	Bromacil	65.4	76.4	P/P	45 - 127
2410434	Butylate	62.0	59.5	P/P	20 - 83.0
2410434	Caffeine	106	131	P/P	10 - 194
2410434	Carbophenothion	100	118	P/P	57 - 127
2410434	Carfentrazone Ethyl	69.1	77.1	P/P	51 - 141
2410434	Chlorfenapyr	68.7	75.3	P/P	46 - 111
2410434	Chlorpyrifos Ethyl	108	85.3	P/P	52 - 120
2410434	Chlorpyrifos Methyl	79.0	81.6	P/P	63 - 119
2410434	Coumaphos	61.4	92.8	P/P	10 - 228
2410434	Cyanazine	164	237	P/P	59 - 241
2410434	Cyprodinil	84.3	87.8	P/P	47 - 146
2410434	Dechlorane 602	75.7	109	P/P	50 - 150
2410434	Dechlorane 603	102	135	P/P	50 - 150
2410434	Dechlorane Plus	106	93.5	P/P	50 - 150
2410434	Demeton	63.1	70.6	P/P	40 - 136
2410434	Diazinon	89.5	86.1	P/P	69 - 132
2410434	Difenoconazole	45.9	114	F/P	57 - 258
2410434	Dimethenamid	72.9	84.6	P/P	54 - 110
2410434	Dimethomorph	143	101	P/P	28 - 210
2410434	Disulfoton	75.7	84.7	P/P	43 - 133
2410434	Dithiopyr	76.0	80.0	P/P	39 - 116
2410434	EPTC	51.0	49.6	P/P	20 - 78.0
2410434	Ethion	95.9	111	P/P	17 - 119
2410434	Ethoprop	100	94.8	P/P	66 - 120
2410434	Etridiazole	77.1	85.9	P/P	28 - 96.0
2410434	Fenamiphos	68.7	61.9	P/P	41 - 126
2410434	Fenbuconazole	37.4	73.6	F/P	42 - 169
2410434	Fipronil	98.6	111	P/P	61 - 132
2410434	Fipronil Desulfinyl	94.9	105	P/P	56 - 132
2410434	Fipronil Sulfide	75.5	86.7	P/P	48 - 119
2410434	Fipronil Sulfone	68.2	78.9	P/P	42 - 131
2410434	Fluazifop-P-butyl	75.1	77.3	P/P	53 - 131
2410434	Fludioxonil	73.9	84.7	P/P	56 - 127
2410434	Flumioxazin	57.0	112	P/P	19 - 300
2410434	Flutolanil	91.8	101	P/P	41 - 127
2410434	Fluxapyroxad	92.7	118	P/P	42 - 172
2410434	Fonofos	91.8	81.9	P/P	59 - 113
2410434	Hexabromobenzene	124	133	P/P	50 - 150
2410434	Hexazinone	97.6	84.9	P/P	66 - 122
2410434	Imazalil	178	104	P/P	21 - 283
2410434	Iprodione	81.2	53.7	P/P	43 - 150
2410434	Loratadine	146	90.5	P/P	23 - 201
2410434	Malathion	75.7	96.0	P/P	58 - 136
2410434	Metalaxyl	101	114	P/P	55 - 120

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P430033

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410434	Metolachlor	91.2	97.0	P/P	57 - 121
2410434	Metribuzin	94.3	94.5	P/P	58 - 294
2410434	Mevinphos	81.2	73.6	P/P	50 - 126
2410434	Molinate	57.7	61.5	P/P	42 - 93.0
2410434	Myclobutanil	72.4	80.7	P/P	55 - 125
2410434	Naled	37.9	40.9	P/P	18 - 200
2410434	Napropamide	62.2	73.3	P/P	39 - 110
2410434	Norflurazon	57.0	68.2	P/P	48 - 128
2410434	Octinoxate	106	116	P/P	21 - 159
2410434	Oxadiazon	65.1	74.1	P/P	43 - 112
2410434	Oxybenzone	114	124	P/P	41 - 142
2410434	Oxyfluorfen	100	97.1	P/P	64 - 153
2410434	Parathion Ethyl	93.8	96.5	P/P	69 - 114
2410434	Parathion Methyl	94.7	86.5	P/P	79 - 139
2410434	PBB-153	107	150	P/F	50 - 150
2410434	PBDE-47	101	118	P/P	27 - 144
2410434	PBDE-99	78.0	112	P/P	18 - 150
2410434	Pendimethalin	109	100	P/P	50 - 139
2410434	Pentabromotoluene	109	117	P/P	50 - 150
2410434	Phenytoin	65.8	58.1	P/P	10 - 146
2410434	Phorate	83.1	96.7	P/P	54 - 161
2410434	Prodiamine	57.9	59.8	P/P	30 - 161
2410434	Prometon	110	86.4	P/P	45 - 134
2410434	Prometryn	99.4	117	P/P	45 - 137
2410434	Pronamide	82.4	84.1	P/P	65 - 133
2410434	Propanil	125	126	P/P	49 - 142
2410434	Propargite	85.7	97.5	P/P	10 - 203
2410434	Propiconazole	63.7	67.5	P/P	38 - 146
2410434	Pyraflufen Ethyl	58.6	70.3	P/P	34 - 153
2410434	Pyridaben	71.8	111	P/P	12 - 192
2410434	Pyriproxyfen	90.8	122	P/P	33 - 180
2410434	Simazine	72.2	72.4	P/P	51 - 157
2410434	Stirophos	79.3	98.0	P/P	10 - 128
2410434	Sulfentrazone	92.8	111	P/P	53 - 186
2410434	Tebuconazole	76.8	82.6	P/P	10 - 133
2410434	Terbufos	90.9	80.0	P/P	65 - 139
2410434	Terbuthylazine	96.9	94.6	P/P	66 - 117
2410434	Tetradecachloro-m-terphenyl	193	215	P/F	70 - 200
2410434	Thiobencarb	55.0	75.8	P/P	51 - 119
2410434	Tri-o-cresyl Phosphate	100	120	P/P	31 - 144
2410434	Triadimefon	77.4	83.8	P/P	48 - 119
2410434	Tris(1-chloro-2-propyl) phosphate (TCPP)	107	89.7	P/P	50 - 150
2410434	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	103	114	P/P	50 - 150
2410434	Tris(2-chloroethyl) phosphate (TCEP)	118	119	P/P	70 - 180

Reference Method: EPA 8270E
Batch ID: P430198

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2411278	Aldrin	47.4	44.2	P/P	20 - 82.0
2411278	Alpha-BHC	84.9	84.1	P/P	71 - 109
2411278	Alpha-Chlordane	69.9	60.1	P/P	42 - 106

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P430198

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2411278	Beta-BHC	95.5	87.5	P/P	69 - 180
2411278	Beta-Cyfluthrin	90.4	74.5	P/P	18 - 175
2411278	Bifenthrin	52.3	51.7	P/P	21 - 128
2411278	Carbophenothion	56.6	52.8	P/P	10 - 126
2411278	Chlorothalonil	27.9	44.5	P/P	10 - 300
2411278	Cis-Nonachlor	62.5	54.4	P/P	34 - 106
2411278	Cypermethrin	90.4	75.2	P/P	22 - 158
2411278	Dacthal	85.3	81.5	P/P	54 - 116
2411278	DDD-p,p'	65.5	60.9	P/P	34 - 107
2411278	DDE-p,p'	64.0	57.8	P/P	33 - 110
2411278	DDT-p,p'	55.3	55.5	P/P	50 - 122
2411278	Delta-BHC	102	92.7	P/P	77 - 193
2411278	Deltamethrin	118	89.5	P/P	10 - 195
2411278	Dichlobenil	55.4	44.4	P/P	25 - 113
2411278	Dicofol	58.6	59.9	P/P	38 - 247
2411278	Dieldrin	68.8	61.1	P/P	45 - 118
2411278	Endosulfan I	72.5	64.8	P/P	51 - 106
2411278	Endosulfan II	79.5	74.6	P/P	37 - 122
2411278	Endosulfan Sulfate	79.2	70.2	P/P	43 - 132
2411278	Endrin	73.2	64.8	P/P	29 - 101
2411278	Endrin Aldehyde	105	100	P/P	19 - 110
2411278	Endrin Ketone	70.1	71.2	P/P	60 - 140
2411278	Esfenvalerate	90.7	73.3	P/P	26 - 199
2411278	Ethalfluralin	65.4	65.8	P/P	45 - 99.0
2411278	Fenpropathrin	78.7	69.2	P/P	35 - 120
2411278	Gamma-BHC	119	120	P/P	63 - 128
2411278	Gamma-Chlordane	70.0	62.1	P/P	40 - 104
2411278	Heptachlor	59.1	50.0	P/P	36 - 97.0
2411278	Heptachlor Epoxide	73.4	67.9	P/P	49 - 184
2411278	Hexachlorobenzene	50.3	42.6	P/P	39 - 96.0
2411278	Kepone	165	153	P/P	10 - 217
2411278	Lambda-Cyhalothrin	76.8	64.5	P/P	21 - 193
2411278	Methoprene	53.9	49.9	P/P	20 - 106
2411278	Methoxychlor	74.7	74.7	P/P	53 - 118
2411278	MGK-264	78.9	74.9	P/P	40 - 118
2411278	Mirex	54.4	47.7	P/P	26 - 92.0
2411278	Oxychlordane	64.1	57.9	P/P	44 - 99.0
2411278	Permethrin	66.9	69.0	P/P	33 - 182
2411278	Phenothrin	55.8	57.0	P/P	10 - 129
2411278	Piperonyl Butoxide	79.5	88.0	P/P	10 - 211
2411278	Prallethrin	69.4	59.6	P/P	24 - 113
2411278	Tau-Fluvalinate	85.7	68.6	P/P	14 - 149
2411278	Tetramethrin	85.3	88.4	P/P	17 - 151
2411278	Trans-Nonachlor	66.2	56.2	P/P	42 - 102
2411278	Triclosan Methyl	70.8	64.2	P/P	48 - 108
2411278	Trifluralin	62.9	63.7	P/P	47 - 96.0
2411372	PCB-1016	70.2	78.2	P/P	46 - 111
2411372	PCB-1260	65.6	69.2	P/P	45 - 114

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P430198

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2411372	Chlordane	90.0	87.5	P/P	53 - 126
2411372	Toxaphene	120	127	P/P	56 - 211

Reference Method: EPA 8321B
Batch ID: P429908

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2409832	Acesulfame K	80.8	81.0	P/P	40 - 150
2409832	AMPA	97.6	102	P/P	40 - 150
2409832	Endothall	95.1	92.9	P/P	40 - 150
2409832	Glufosinate	74.2	82.1	P/P	40 - 150
2409832	Glyphosate	90.3	100	P/P	40 - 150
2409832	Sucralose	119	96.2	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430052

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410775	3-Hydroxycarbofuran	79.3	73.1	P/P	40 - 150
2410775	Aldicarb	39.8	48.5	P/P	30 - 150
2410775	Aldicarb Sulfone	82.5	82.8	P/P	40 - 150
2410775	Aldicarb Sulfoxide	36.6	35.2	F/F	40 - 150
2410775	Carbaryl	76.5	81.7	P/P	40 - 150
2410775	Carbofuran	62.0	62.4	P/P	40 - 150
2410775	Methiocarb	79.6	82.6	P/P	40 - 150
2410775	Methomyl	68.5	71.0	P/P	40 - 150
2410775	Oxamyl	65.5	71.0	P/P	40 - 150
2410775	Propoxur	65.2	65.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430081

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410800	Acesulfame K	68.4	67.5	P/P	40 - 150
2410800	AMPA	88.1	87.9	P/P	40 - 150
2410800	Endothall	102	93.9	P/P	40 - 150
2410800	Glufosinate	78.4	84.9	P/P	40 - 150
2410800	Glyphosate	110	110	P/P	40 - 150
2410800	Sucralose	121	110	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P430178

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410774	2,4-D	85.5	83.4	P/P	40 - 150
2410774	2,4,5-T	98.1	96.2	P/P	40 - 150
2410774	Acetaminophen	93.3	92.7	P/P	30 - 150
2410774	Acetamiprid	68.3	71.1	P/P	40 - 150
2410774	Afidopyropen	69.2	72.0	P/P	30 - 150
2410774	Benzovindiflupyr	83.4	86.7	P/P	40 - 150
2410774	Carbamazepine	71.8	70.0	P/P	40 - 150
2410774	Clothianidin	96.8	109	P/P	40 - 150

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P430178

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410774	Dinotefuran	87.4	85.9	P/P	40 - 150
2410774	Diuron	72.9	66.0	P/P	40 - 150
2410774	Fenuron	65.0	66.6	P/P	40 - 150
2410774	Hydrocodone	70.5	69.2	P/P	40 - 150
2410774	Ibuprofen	51.8	50.0	P/P	40 - 150
2410774	Imidacloprid	148	155	P/F	40 - 150
2410774	Linuron	68.9	76.2	P/P	40 - 150
2410774	Mandestrobin	81.2	80.3	P/P	40 - 150
2410774	MCPP	101	101	P/P	40 - 150
2410774	Naproxen	65.3	60.7	P/P	40 - 150
2410774	Primidone	83.1	84.6	P/P	40 - 150
2410774	Pyraclostrobin	85.4	83.8	P/P	40 - 150
2410774	Silvex	80.8	93.5	P/P	40 - 150
2410774	Thiamethoxam	110	113	P/P	40 - 150
2410774	Tolfenpyrad	63.0	59.2	P/P	30 - 150
2410774	Triclopyr	88.1	93.4	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P430444

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2408857	Fluoride	108	108	F/F	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P430544

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2411011	Fluoride	101	98.4	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P430150

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2410490	Organic Carbon	95.5	95.2	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P430727

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2411706	Organic Carbon	87.2	89.1	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P430069

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410571	Color (true)	2.32	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P430079

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410578	Turbidity	10.3	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P430250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410517	Calcium	1.04	Spike	P	0 - 20
2410517	Iron	0.705	Spike	P	0 - 20
2410517	Magnesium	0.556	Spike	P	0 - 20
2410517	Potassium	0.582	Spike	P	0 - 20
2410517	Sodium	0.229	Spike	P	0 - 20
2410517	Strontium	1.23	Spike	P	0 - 20
2410517	Tin	1.71	Spike	P	0 - 20
2410517	Titanium	6.48	Spike	P	0 - 20
2410517	Vanadium	1.65	Spike	P	0 - 20
2410517	Zinc	0.326	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P430250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410517	Aluminum	3.62	Spike	P	0 - 20
2410517	Antimony	0.128	Spike	P	0 - 20
2410517	Arsenic	0.365	Spike	P	0 - 20
2410517	Barium	0.812	Spike	P	0 - 20
2410517	Beryllium	2.28	Spike	P	0 - 20
2410517	Boron	4.52	Spike	P	0 - 20
2410517	Cadmium	1.54	Spike	P	0 - 20
2410517	Chromium	0.724	Spike	P	0 - 20
2410517	Cobalt	0.869	Spike	P	0 - 20
2410517	Copper	0.0794	Spike	P	0 - 20
2410517	Lead	0.478	Spike	P	0 - 20
2410517	Manganese	0.0420	Spike	P	0 - 20
2410517	Molybdenum	0.380	Spike	P	0 - 20
2410517	Nickel	0.0363	Spike	P	0 - 20
2410517	Selenium	0.841	Spike	P	0 - 20
2410517	Silver	0.400	Spike	P	0 - 20
2410517	Thallium	2.89	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430367

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410488	Chloride	1.37	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430368

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410733	Chloride	2.83	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P430370

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410488	Sulfate	1.71	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430337

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410310	Ammonia-N	0.822	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P430410

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410616	Ammonia-N	0.355	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430235

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410513	Kjeldahl Nitrogen	4.56	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430239

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410818	Kjeldahl Nitrogen	11.3	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P430980

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2411218	Kjeldahl Nitrogen	2.94	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430296

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410529	NO2NO3-N	0.496	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P430478

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410616	NO2NO3-N	0.939	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430216

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2411706	Total-P	1.95	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P430722

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410681	Total-P	0.883	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P430033

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410434	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	28.5	Spike	P	0 - 37
2410434	Acetochlor	9.52	Spike	P	0 - 28
2410434	Alachlor	5.43	Spike	P	0 - 30
2410434	Ametryn	25.7	Spike	P	0 - 32
2410434	Atrazine	6.70	Spike	P	0 - 41
2410434	Atrazine Desethyl	21.8	Spike	P	0 - 36
2410434	Avobenzone	31.1	Spike	P	0 - 36
2410434	Azinphos Methyl	26.1	Spike	P	0 - 75
2410434	Azoxystrobin	17.0	Spike	P	0 - 39
2410434	Bromacil	15.6	Spike	P	0 - 33
2410434	Butylate	4.20	Spike	P	0 - 44
2410434	Caffeine	20.8	Spike	P	0 - 74
2410434	Carbophenothion	15.7	Spike	P	0 - 25
2410434	Carfentrazone Ethyl	10.9	Spike	P	0 - 27
2410434	Chlorfenapyr	9.20	Spike	P	0 - 24
2410434	Chlorpyrifos Ethyl	23.7	Spike	P	0 - 26
2410434	Chlorpyrifos Methyl	3.17	Spike	P	0 - 26
2410434	Coumaphos	40.7	Spike	F	0 - 28
2410434	Cyanazine	36.1	Spike	P	0 - 48
2410434	Cyprodinil	4.09	Spike	P	0 - 29
2410434	Dechlorane 602	35.8	Spike	F	0 - 30
2410434	Dechlorane 603	28.4	Spike	P	0 - 30
2410434	Dechlorane Plus	12.9	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P430033

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410434	Demeton	11.3	Spike	P	0 - 33
2410434	Diazinon	3.86	Spike	P	0 - 29
2410434	Difenoconazole	84.9	Spike	F	0 - 34
2410434	Dimethenamid	15.0	Spike	P	0 - 39
2410434	Dimethomorph	34.5	Spike	P	0 - 51
2410434	Disulfoton	11.2	Spike	P	0 - 30
2410434	Dithiopyr	5.10	Spike	P	0 - 26
2410434	EPTC	2.66	Spike	P	0 - 43
2410434	Ethion	14.8	Spike	P	0 - 79
2410434	Ethoprop	5.55	Spike	P	0 - 29
2410434	Etridiazole	10.8	Spike	P	0 - 33
2410434	Fenamiphos	10.5	Spike	P	0 - 40
2410434	Fenbuconazole	65.3	Spike	P	0 - 74
2410434	Fipronil	11.8	Spike	P	0 - 29
2410434	Fipronil Desulfinyl	9.71	Spike	P	0 - 32
2410434	Fipronil Sulfide	13.8	Spike	P	0 - 30
2410434	Fipronil Sulfone	14.6	Spike	P	0 - 33
2410434	Fluazifop-P-butyl	2.92	Spike	P	0 - 38
2410434	Fludioxonil	13.7	Spike	P	0 - 29
2410434	Flumioxazin	65.0	Spike	F	0 - 51
2410434	Flutolanil	9.07	Spike	P	0 - 25
2410434	Fluxapyroxad	23.8	Spike	P	0 - 45
2410434	Fonofos	11.4	Spike	P	0 - 27
2410434	Hexabromobenzene	6.74	Spike	P	0 - 30
2410434	Hexazinone	13.9	Spike	P	0 - 30
2410434	Imazalil	52.4	Spike	P	0 - 100
2410434	Iprodione	40.9	Spike	F	0 - 33
2410434	Loratadine	46.9	Spike	P	0 - 56
2410434	Malathion	23.6	Spike	P	0 - 37
2410434	Metalaxyl	11.4	Spike	P	0 - 40
2410434	Metolachlor	5.30	Spike	P	0 - 29
2410434	Metribuzin	0.195	Spike	P	0 - 45
2410434	Mevinphos	9.86	Spike	P	0 - 29
2410434	Molinate	6.38	Spike	P	0 - 33
2410434	Myclobutanil	10.8	Spike	P	0 - 26
2410434	Naled	7.60	Spike	P	0 - 37
2410434	Napropamide	16.3	Spike	P	0 - 44
2410434	Norflurazon	17.9	Spike	P	0 - 30
2410434	Octinoxate	9.85	Spike	P	0 - 45
2410434	Oxadiazon	12.9	Spike	P	0 - 28
2410434	Oxybenzone	8.10	Spike	P	0 - 46
2410434	Oxyfluorfen	3.10	Spike	P	0 - 28
2410434	Parathion Ethyl	2.81	Spike	P	0 - 31
2410434	Parathion Methyl	9.08	Spike	P	0 - 29
2410434	PBB-153	33.8	Spike	F	0 - 30
2410434	PBDE-47	15.4	Spike	P	0 - 36
2410434	PBDE-99	35.7	Spike	P	0 - 40
2410434	Pendimethalin	8.60	Spike	P	0 - 33
2410434	Pentabromotoluene	6.72	Spike	P	0 - 30
2410434	Phenytoin	12.4	Spike	P	0 - 100
2410434	Phorate	15.1	Spike	P	0 - 36

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P430033

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410434	Prodiamine	3.24	Spike	P	0 - 71
2410434	Prometon	23.9	Spike	P	0 - 36
2410434	Prometryn	16.6	Spike	P	0 - 28
2410434	Pronamide	2.10	Spike	P	0 - 24
2410434	Propanil	1.03	Spike	P	0 - 28
2410434	Propargite	12.9	Spike	P	0 - 43
2410434	Propiconazole	5.70	Spike	P	0 - 33
2410434	Pyraflufen Ethyl	18.1	Spike	P	0 - 29
2410434	Pyridaben	43.2	Spike	F	0 - 30
2410434	Pyriproxyfen	29.1	Spike	P	0 - 79
2410434	Simazine	0.139	Spike	P	0 - 29
2410434	Stirophos	21.1	Spike	P	0 - 61
2410434	Sulfentrazone	17.8	Spike	P	0 - 33
2410434	Tebuconazole	7.27	Spike	P	0 - 69
2410434	Terbufos	12.8	Spike	P	0 - 29
2410434	Terbuthylazine	2.43	Spike	P	0 - 32
2410434	Tetradecachloro-m-terphenyl	10.4	Spike	P	0 - 30
2410434	Thiobencarb	31.7	Spike	F	0 - 26
2410434	Tri-o-cresyl Phosphate	17.8	Spike	P	0 - 33
2410434	Triadimefon	7.92	Spike	P	0 - 28
2410434	Tris(1-chloro-2-propyl) phosphate (TCPP)	18.0	Spike	P	0 - 30
2410434	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	9.69	Spike	P	0 - 30
2410434	Tris(2-chloroethyl) phosphate (TCEP)	0.807	Spike	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P430198

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2411278	Aldrin	7.03	Spike	P	0 - 41
2411278	Alpha-BHC	0.873	Spike	P	0 - 25
2411278	Alpha-Chlordane	15.1	Spike	P	0 - 33
2411278	Beta-BHC	8.81	Spike	P	0 - 36
2411278	Beta-Cyfluthrin	19.3	Spike	P	0 - 42
2411278	Bifenthrin	1.02	Spike	P	0 - 53
2411278	Carbophenothion	6.92	Spike	P	0 - 49
2411278	Chlorothalonil	45.9	Spike	P	0 - 71
2411278	Cis-Nonachlor	13.9	Spike	P	0 - 29
2411278	Cypermethrin	18.4	Spike	P	0 - 40
2411278	Dacthal	4.56	Spike	P	0 - 26
2411278	DDD-p,p'	7.37	Spike	P	0 - 39
2411278	DDE-p,p'	10.2	Spike	P	0 - 33
2411278	DDT-p,p'	0.337	Spike	P	0 - 40
2411278	Delta-BHC	9.71	Spike	P	0 - 37
2411278	Deltamethrin	27.6	Spike	P	0 - 100
2411278	Dichlobenil	22.1	Spike	P	0 - 40
2411278	Dicofol	2.20	Spike	P	0 - 31
2411278	Dieldrin	12.0	Spike	P	0 - 27
2411278	Endosulfan I	11.2	Spike	P	0 - 23
2411278	Endosulfan II	6.39	Spike	P	0 - 28
2411278	Endosulfan Sulfate	12.1	Spike	P	0 - 38

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P430198

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2411278	Endrin	12.2	Spike	P	0 - 63
2411278	Endrin Aldehyde	4.57	Spike	P	0 - 60
2411278	Endrin Ketone	1.54	Spike	P	0 - 37
2411278	Esfenvalerate	21.2	Spike	P	0 - 52
2411278	Ethalfluralin	0.633	Spike	P	0 - 23
2411278	Fenpropathrin	12.8	Spike	P	0 - 32
2411278	Gamma-BHC	0.623	Spike	P	0 - 17
2411278	Gamma-Chlordane	12.0	Spike	P	0 - 40
2411278	Heptachlor	16.7	Spike	P	0 - 29
2411278	Heptachlor Epoxide	7.86	Spike	P	0 - 25
2411278	Hexachlorobenzene	16.5	Spike	P	0 - 36
2411278	Kepone	8.04	Spike	P	0 - 93
2411278	Lambda-Cyhalothrin	17.4	Spike	P	0 - 55
2411278	Methoprene	7.69	Spike	P	0 - 53
2411278	Methoxychlor	0.0481	Spike	P	0 - 29
2411278	MGK-264	5.23	Spike	P	0 - 35
2411278	Mirex	13.0	Spike	P	0 - 46
2411278	Oxychlordane	10.2	Spike	P	0 - 29
2411278	Permethrin	3.14	Spike	P	0 - 44
2411278	Phenothrin	2.10	Spike	P	0 - 56
2411278	Piperonyl Butoxide	10.1	Spike	P	0 - 100
2411278	Prallethrin	15.2	Spike	P	0 - 42
2411278	Tau-Fluvalinate	22.1	Spike	P	0 - 54
2411278	Tetramethrin	3.55	Spike	P	0 - 51
2411278	Trans-Nonachlor	16.3	Spike	P	0 - 37
2411278	Triclosan Methyl	9.86	Spike	P	0 - 31
2411278	Trifluralin	1.27	Spike	P	0 - 30
2411372	PCB-1016	10.7	Spike	P	0 - 32
2411372	PCB-1260	5.33	Spike	P	0 - 31

Reference Method: EPA 8276
Batch ID: P430198

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2411372	Chlordane	2.86	Spike	P	0 - 25
2411372	Toxaphene	5.24	Spike	P	0 - 26

Reference Method: EPA 8321B
Batch ID: P429908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2409832	Acesulfame K	0.158	Spike	P	0 - 30
2409832	AMPA	4.23	Spike	P	0 - 30
2409832	Endothall	2.43	Spike	P	0 - 30
2409832	Glufosinate	10.1	Spike	P	0 - 30
2409832	Glyphosate	9.05	Spike	P	0 - 30
2409832	Sucralose	14.0	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P430052

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410775	3-Hydroxycarbofuran	8.16	Spike	P	0 - 30
2410775	Aldicarb	19.8	Spike	P	0 - 30
2410775	Aldicarb Sulfone	0.336	Spike	P	0 - 30
2410775	Aldicarb Sulfoxide	3.94	Spike	P	0 - 30
2410775	Carbaryl	6.55	Spike	P	0 - 30
2410775	Carbofuran	0.728	Spike	P	0 - 30
2410775	Methiocarb	3.80	Spike	P	0 - 30
2410775	Methomyl	3.67	Spike	P	0 - 30
2410775	Oxamyl	8.01	Spike	P	0 - 30
2410775	Propoxur	0.205	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P430081

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410800	Acesulfame K	1.35	Spike	P	0 - 30
2410800	AMPA	0.227	Spike	P	0 - 30
2410800	Endothall	8.17	Spike	P	0 - 30
2410800	Glufosinate	8.02	Spike	P	0 - 30
2410800	Glyphosate	0.433	Spike	P	0 - 30
2410800	Sucralose	9.33	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P430178

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410774	2,4-D	1.47	Spike	P	0 - 30
2410774	2,4,5-T	1.99	Spike	P	0 - 30
2410774	Acetaminophen	0.607	Spike	P	0 - 30
2410774	Acetamiprid	4.09	Spike	P	0 - 30
2410774	Afidopyropen	3.91	Spike	P	0 - 30
2410774	Benzovindiflupyr	3.86	Spike	P	0 - 30
2410774	Carbamazepine	2.21	Spike	P	0 - 30
2410774	Clothianidin	7.91	Spike	P	0 - 30
2410774	Dinotefuran	1.71	Spike	P	0 - 30
2410774	Diuron	9.91	Spike	P	0 - 30
2410774	Fenuron	2.49	Spike	P	0 - 30
2410774	Fluridone	0.155	Spike	P	0 - 30
2410774	Hydrocodone	1.85	Spike	P	0 - 30
2410774	Ibuprofen	3.43	Spike	P	0 - 30
2410774	Imazapyr	1.27	Spike	P	0 - 30
2410774	Imidacloprid	3.81	Spike	P	0 - 30
2410774	Linuron	10.2	Spike	P	0 - 30
2410774	Mandestrobin	1.10	Spike	P	0 - 30
2410774	MCPP	0.226	Spike	P	0 - 30
2410774	Naproxen	7.29	Spike	P	0 - 30
2410774	Primidone	1.53	Spike	P	0 - 30
2410774	Pyraclostrobin	1.93	Spike	P	0 - 30
2410774	Silvex	14.6	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P430178

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410774	Thiamethoxam	2.74	Spike	P	0 - 30
2410774	Tolfenpyrad	6.36	Spike	P	0 - 30
2410774	Triclopyr	5.80	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P430440

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410185	Total Alkalinity	0.321	Sample	P	0 - 3.9

Reference Method: SM 2320 B-2011
Batch ID: P430537

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2411011	Total Alkalinity	0.702	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P430683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410643	TDS	3.55	Sample	P	0 - 10

Reference Method: SM 2540 C-2015
Batch ID: P430684

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410864	TDS	2.91	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P430520

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410643	TSS	7.23	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P430522

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410378	TSS	11.3	Sample	F	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P430444

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

Quality Assurance Report
Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P430444

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2408857	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P430544

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2411011	Fluoride	1.99	Spike	F	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P430150

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2410490	Organic Carbon	0.210	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P430727

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2411706	Organic Carbon	1.63	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2410773
Field Sample ID: G5CE0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	68.1	P	30 - 160

Lab Sample ID: 2410774
Field Sample ID: G5CE0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	110	P	30 - 160
EPA 8321B	Carbamazepine-d10	88.5	P	30 - 160
EPA 8321B	Diuron-d6	68.4	P	30 - 160
EPA 8321B	Endothall-d6	91.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	48.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.9	P	30 - 160
EPA 8321B	Primidone-d5	96.2	P	30 - 160
EPA 8321B	Sucralose-d6	80.4	P	30 - 160

Lab Sample ID: 2410775
Field Sample ID: G5CE0130

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	64.8	P	30 - 160

Lab Sample ID: 2410776
Field Sample ID: G5CE0130

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	109	P	30 - 160
EPA 8321B	Carbamazepine-d10	94.2	P	30 - 160
EPA 8321B	Diuron-d6	76.7	P	30 - 160
EPA 8321B	Endothall-d6	82.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	78.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	78.1	P	30 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Sucralose-d6	64.4	P	30 - 160

Lab Sample ID: 2410777
Field Sample ID: G5CE0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	90.1	P	29 - 130
EPA 8270E	Decachlorobiphenyl	80.8	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	83.6	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	59.8	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	79.1	P	30 - 101
EPA 8276	PCNB	100	P	48 - 121

Lab Sample ID: 2410778
Field Sample ID: G5CE0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	86.5	P	20 - 200

Quality Assurance Report
Surrogates

Lab Sample ID: 2410778
Field Sample ID: G5CE0159

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	95.5	P	62 - 142
EPA 8270E	Terbufos-d10	65.7	P	58 - 132
EPA 8270E	Terphenyl-d14	84.5	P	52 - 137

Lab Sample ID: 2410779
Field Sample ID: G5CE0130

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	78.2	P	29 - 130
EPA 8270E	Decachlorobiphenyl	72.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	58.1	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	50.3	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	66.9	P	30 - 101
EPA 8276	PCNB	87.2	P	48 - 121

Lab Sample ID: 2410780
Field Sample ID: G5CE0130

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	104	P	20 - 200
EPA 8270E	Simazine-d10	78.3	P	62 - 142
EPA 8270E	Terbufos-d10	64.2	P	58 - 132
EPA 8270E	Terphenyl-d14	73.5	P	52 - 137

Quality Assurance Report
Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A119258
Included Lab Sample IDs: 2410729, 2410731, 2410733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.4	99.9	P/P	90 - 110
Color (true)	98.7	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A119260
Included Lab Sample IDs: 2410729, 2410731, 2410733

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

Reference Method: EPA 8321B
Run ID: A119295
Included Lab Sample IDs: 2410774, 2410776

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	100	98.5	P/P	60 - 160
Acesulfame K	98.9	100	P/P	60 - 160
Sucralose	119	114	P/P	60 - 160
Sucralose	127	119	P/P	60 - 160

Reference Method: SM 5310 B-2011
Run ID: A119300
Included Lab Sample IDs: 2410730, 2410734

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

Reference Method: EPA 8321B
Run ID: A119309
Included Lab Sample IDs: 2410774, 2410776

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	118	122	P/P	60 - 160
AMPA	123	124	P/P	60 - 160
Endothall	86.1	83.1	P/P	60 - 160
Endothall	87.4	86.1	P/P	60 - 160
Glufosinate	90.1	89.6	P/P	60 - 160
Glufosinate	91.5	82.9	P/P	60 - 160
Glyphosate	114	108	P/P	60 - 160
Glyphosate	99.7	110	P/P	60 - 160

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A119351
Included Lab Sample IDs: 2410729, 2410731, 2410733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.2	99.8	P/P	90 - 110
Chloride	99.8	100	P/P	90 - 110
Sulfate	96.2	97.5	P/P	90 - 110
Sulfate	97.5	98.7	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A119358
Included Lab Sample IDs: 2410781

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	95.0	95.6	P/P	90 - 110
Iron	95.4	96.6	P/P	90 - 110
Magnesium	93.5	94.7	P/P	90 - 110
Potassium	97.0	96.2	P/P	90 - 110
Sodium	93.1	92.0	P/P	90 - 110
Strontium	96.2	98.2	P/P	90 - 110
Tin	94.8	94.8	P/P	90 - 110
Titanium	96.6	96.5	P/P	90 - 110
Vanadium	95.3	95.1	P/P	90 - 110
Zinc	91.1	91.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A119364
Included Lab Sample IDs: 2410732

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.0	95.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119373
Included Lab Sample IDs: 2410732

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A119376
Included Lab Sample IDs: 2410732

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.4	96.8	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A119381
Included Lab Sample IDs: 2410732

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	98.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A119387
Included Lab Sample IDs: 2410734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.1	93.4	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A119393
Included Lab Sample IDs: 2410781

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A119393
Included Lab Sample IDs: 2410781

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	97.8	99.9	P/P	90 - 110
Arsenic	101	101	P/P	90 - 110
Barium	99.7	102	P/P	90 - 110
Beryllium	98.1	99.5	P/P	90 - 110
Cadmium	97.7	98.2	P/P	90 - 110
Chromium	98.4	98.7	P/P	90 - 110
Cobalt	100	100	P/P	90 - 110
Copper	97.7	97.3	P/P	90 - 110
Lead	99.5	100	P/P	90 - 110
Manganese	94.7	94.9	P/P	90 - 110
Molybdenum	98.0	98.1	P/P	90 - 110
Nickel	99.6	99.9	P/P	90 - 110
Selenium	99.8	101	P/P	90 - 110
Silver	100	99.9	P/P	90 - 110
Thallium	105	103	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A119395
Included Lab Sample IDs: 2410773, 2410775

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	105	108	P/P	60 - 150
3-Hydroxycarbofuran	108	105	P/P	60 - 150
Aldicarb	116	81.7	P/P	60 - 150
Aldicarb	87.0	116	P/P	60 - 150
Aldicarb Sulfone	112	111	P/P	50 - 150
Aldicarb Sulfone	115	112	P/P	50 - 150
Aldicarb Sulfoxide	101	107	P/P	50 - 150
Aldicarb Sulfoxide	107	105	P/P	50 - 150
Carbaryl	94.0	100	P/P	60 - 150
Carbaryl	97.8	94.0	P/P	60 - 150
Carbofuran	91.6	98.3	P/P	50 - 150
Carbofuran	94.0	91.6	P/P	50 - 150
Methiocarb	101	102	P/P	50 - 150
Methiocarb	102	103	P/P	50 - 150
Methomyl	103	101	P/P	50 - 150
Methomyl	104	103	P/P	50 - 150
Oxamyl	104	105	P/P	50 - 150
Oxamyl	105	102	P/P	50 - 150
Propoxur	102	101	P/P	50 - 150
Propoxur	107	102	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A119398
Included Lab Sample IDs: 2410778, 2410780

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	101		P	80 - 120
Avobenzone	104		P	80 - 120
Dechlorane 602	100		P	80 - 120
Dechlorane 603	99.4		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119398
Included Lab Sample IDs: 2410778, 2410780

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dechlorane Plus	93.8		P	80 - 120
Hexabromobenzene	100		P	80 - 120
Octinoxate	97.5		P	80 - 120
Oxybenzone	96.9		P	80 - 120
PBB-153	100		P	80 - 120
PBDE-47	98.6		P	80 - 120
PBDE-99	101		P	80 - 120
Pentabromotoluene	101		P	80 - 120
Tetradecachloro-m-terphenyl	107		P	80 - 120
Tri-o-cresyl Phosphate	97.1		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	83.8		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	94.3		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	93.5		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A119408
Included Lab Sample IDs: 2410730, 2410734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.7	98.2	P/P	90 - 110
Ammonia-N	98.8	98.7	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A119420
Included Lab Sample IDs: 2410778, 2410780

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	88.9		P	80 - 120
Alachlor	96.1		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	89.9		P	80 - 120
Atrazine Desethyl	108		P	80 - 120
Azinphos Methyl	89.8		P	80 - 120
Azoxystrobin	97.7		P	80 - 120
Bromacil	97.5		P	80 - 120
Butylate	98.3		P	80 - 120
Caffeine	103		P	80 - 120
Carbophenothion	106		P	80 - 120
Carfentrazone Ethyl	98.5		P	80 - 120
Chlorfenapyr	92.6		P	80 - 120
Chlorpyrifos Ethyl	87.8		P	80 - 120
Chlorpyrifos Methyl	95.7		P	80 - 120
Coumaphos	101		P	80 - 120
Cyanazine	102		P	80 - 120
Cyprodinil	94.8		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	99.3		P	80 - 120
Difenoconazole	102		P	80 - 120
Dimethenamid	98.5		P	80 - 120
Dimethomorph	95.7		P	80 - 120
Disulfoton	96.5		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119420
Included Lab Sample IDs: 2410778, 2410780

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dithiopyr	101		P	80 - 120
EPTC	96.5		P	80 - 120
Ethion	84.7		P	80 - 120
Ethoprop	101		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	91.3		P	80 - 120
Fenbuconazole	88.6		P	80 - 120
Fipronil	92.8		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	101		P	80 - 120
Fluazifop-P-butyl	115		P	80 - 120
Fludioxonil	99.5		P	80 - 120
Flumioxazin	97.8		P	80 - 120
Flutolanil	87.4		P	80 - 120
Fluxapyroxad	107		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	98.1		P	80 - 120
Imazalil	105		P	80 - 120
Iprodione	88.3		P	80 - 120
Loratadine	93.0		P	80 - 120
Malathion	91.5		P	80 - 120
Metalaxyl	89.8		P	80 - 120
Metolachlor	98.7		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	93.2		P	80 - 120
Molinate	85.2		P	80 - 120
Myclobutanil	91.9		P	80 - 120
Naled	94.2		P	80 - 120
Napropamide	98.3		P	80 - 120
Norflurazon	99.5		P	80 - 120
Oxadiazon	107		P	80 - 120
Oxyfluorfen	95.0		P	80 - 120
Parathion Ethyl	101		P	80 - 120
Parathion Methyl	87.1		P	80 - 120
Pendimethalin	113		P	80 - 120
Phenytoin	95.7		P	80 - 120
Phorate	90.9		P	80 - 120
Prodiamine	102		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	108		P	80 - 120
Pronamide	98.6		P	80 - 120
Propanil	94.0		P	80 - 120
Propargite	108		P	80 - 120
Propiconazole	91.6		P	80 - 120
Pyraflufen Ethyl	112		P	80 - 120
Pyridaben	111		P	80 - 120
Pyriproxyfen	110		P	80 - 120
Simazine	91.8		P	80 - 120
Stirophos	85.4		P	80 - 120
Sulfentrazone	107		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119420
Included Lab Sample IDs: 2410778, 2410780

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tebuconazole	103		P	80 - 120
Terbufos	97.4		P	80 - 120
Terbuthylazine	90.3		P	80 - 120
Thiobencarb	102		P	80 - 120
Triadimefon	104		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A119421
Included Lab Sample IDs: 2410731

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.3	98.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A119421
Included Lab Sample IDs: 2410731

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	107	108	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A119428
Included Lab Sample IDs: 2410781

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.3	98.5	P/P	90 - 110
Boron	105	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A119437
Included Lab Sample IDs: 2410730, 2410734

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	108	110	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A119438
Included Lab Sample IDs: 2410774, 2410776

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	101	99.2	P/P	50 - 150
2,4-D	94.1	101	P/P	50 - 150
2,4,5-T	107	99.1	P/P	50 - 150
2,4,5-T	99.1	97.3	P/P	50 - 150
Acetaminophen	105	97.8	P/P	60 - 160
Acetaminophen	97.8	106	P/P	60 - 160
Acetamiprid	112	114	P/P	50 - 150
Acetamiprid	114	118	P/P	50 - 150
Afidopyropen	111	90.5	P/P	50 - 150
Afidopyropen	118	111	P/P	50 - 150
Bentazon	136	128	P/P	50 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A119438
Included Lab Sample IDs: 2410774, 2410776

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Benzovindiflupyr	107	109	P/P	50 - 150
Benzovindiflupyr	109	106	P/P	50 - 150
Carbamazepine	104	114	P/P	60 - 150
Carbamazepine	114	106	P/P	60 - 150
Clothianidin	109	117	P/P	60 - 150
Clothianidin	111	109	P/P	60 - 150
Dinotefuran	108	110	P/P	50 - 150
Dinotefuran	110	115	P/P	50 - 150
Diuron	106	114	P/P	60 - 160
Diuron	109	106	P/P	60 - 160
Fenuron	108	110	P/P	60 - 150
Fenuron	110	113	P/P	60 - 150
Fluridone	107	120	P/P	60 - 160
Fluridone	117	107	P/P	60 - 160
Hydrocodone	109	113	P/P	60 - 150
Hydrocodone	111	109	P/P	60 - 150
Ibuprofen	109	109	P/P	50 - 160
Ibuprofen	109	115	P/P	50 - 160
Imazapyr	110	102	P/P	50 - 150
Imazapyr	113	114	P/P	50 - 150
Imidacloprid	104	105	P/P	60 - 150
Imidacloprid	105	107	P/P	60 - 150
Linuron	101	106	P/P	60 - 150
Linuron	106	99.8	P/P	60 - 150
Mandestrobin	100	101	P/P	50 - 150
Mandestrobin	99.3	100	P/P	50 - 150
MCPP	104	107	P/P	50 - 150
MCPP	105	104	P/P	50 - 150
Naproxen	115	96.2	P/P	50 - 160
Naproxen	137	115	P/P	50 - 160
Primidone	105	110	P/P	60 - 150
Primidone	97.4	105	P/P	60 - 150
Pyraclostrobin	109	116	P/P	60 - 150
Pyraclostrobin	116	110	P/P	60 - 150
Silvex	103	109	P/P	50 - 150
Silvex	109	117	P/P	50 - 150
Thiamethoxam	111	115	P/P	50 - 150
Thiamethoxam	115	117	P/P	50 - 150
Tolfenpyrad	103	117	P/P	60 - 150
Tolfenpyrad	117	118	P/P	60 - 150
Triclopyr	79.7	109	P/P	50 - 150
Triclopyr	83.2	79.7	P/P	50 - 150

Reference Method: EPA 8270E
Run ID: A119448
Included Lab Sample IDs: 2410777, 2410779

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	101		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A119448
Included Lab Sample IDs: 2410777, 2410779

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-BHC	97.0		P	80 - 120
Beta-Cyfluthrin	104		P	80 - 120
Bifenthrin	106		P	80 - 120
Carbophenothion	106		P	80 - 120
Chlorothalonil	97.5		P	80 - 120
Cis-Nonachlor	104		P	80 - 120
Cypermethrin	106		P	80 - 120
Dacthal	104		P	80 - 120
DDD-p,p'	107		P	80 - 120
DDE-p,p'	106		P	80 - 120
DDT-p,p'	99.5		P	80 - 120
Delta-BHC	99.7		P	80 - 120
Deltamethrin	104		P	80 - 120
Dichlobenil	106		P	80 - 120
Dicofol	102		P	80 - 120
Dieldrin	104		P	80 - 120
Endosulfan I	104		P	80 - 120
Endosulfan II	100		P	80 - 120
Endosulfan Sulfate	93.4		P	80 - 120
Endrin	107		P	80 - 120
Endrin Aldehyde	100		P	80 - 120
Endrin Ketone	84.1		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfluralin	95.2		P	80 - 120
Fenpropathrin	110		P	80 - 120
Gamma-BHC	98.4		P	80 - 120
Gamma-Chlordane	107		P	80 - 120
Heptachlor	99.4		P	80 - 120
Heptachlor Epoxide	106		P	80 - 120
Hexachlorobenzene	105		P	80 - 120
Kepone	75.1*		F	80 - 120
Lambda-Cyhalothrin	103		P	80 - 120
Methoprene	104		P	80 - 120
Methoxychlor	100		P	80 - 120
MGK-264	105		P	80 - 120
Mirex	106		P	80 - 120
Oxychlordane	105		P	80 - 120
Permethrin	102		P	80 - 120
Phenothrin	101		P	80 - 120
Piperonyl Butoxide	92.2		P	80 - 120
Prallethrin	104		P	80 - 120
Tau-Fluvalinate	108		P	80 - 120
Tetramethrin	105		P	80 - 120
Trans-Nonachlor	104		P	80 - 120
Triclosan Methyl	105		P	80 - 120
Trifluralin	104		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8276
Run ID: A119449
Included Lab Sample IDs: 2410777, 2410779

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.7		P	80 - 120
Toxaphene	101		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A119461
Included Lab Sample IDs: 2410729, 2410733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.2	93.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A119461
Included Lab Sample IDs: 2410729, 2410733

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	101	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A119503
Included Lab Sample IDs: 2410778

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	84.8		P	80 - 120

Reference Method: EPA 8270E
Run ID: A119513
Included Lab Sample IDs: 2410777, 2410779

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	93.2		P	80 - 120
PCB-1260	96.4		P	80 - 120

Reference Method: SM 5310 B-2011
Run ID: A119540
Included Lab Sample IDs: 2410732

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.2	93.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A119582
Included Lab Sample IDs: 2410730, 2410734

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A119704
Included Lab Sample IDs: 2410730

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A119704
Included Lab Sample IDs: 2410730

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.5	102	P/P	90 - 110

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
DEP SOP: NU-094-1	Color (true)	97.7				2.32	
EPA 180.1 Rev. 2.0	Turbidity	98.7				10.3	
EPA 200.7 Rev. 4.4	Calcium	97.9					1.04
	Iron	97.8	95.7	96.4			0.705
	Magnesium	94.8					0.556
	Potassium	97.3					0.582
	Sodium	93.3					0.229
	Strontium	95.4					1.23
	Tin	97.1	96.2	94.6			1.71
	Titanium	98.2	95.8	103			6.48
	Vanadium	96.6	96.8	95.2			1.65
	Zinc	94.6	90.9	91.2			0.326
EPA 200.8 Rev. 5.4	Aluminum	97.9	105	109			3.62
	Antimony	96.3	102	102			0.128
	Arsenic	97.6	105	106			0.365
	Barium	98.4	105	107			0.812
	Beryllium	93.6	107	104			2.28
	Boron	102					4.52
	Cadmium	97.1	94.8	93.4			1.54
	Chromium	95.8	95.7	95.0			0.724
	Cobalt	99.0	89.4	90.2			0.869
	Copper	96.1	90.2	90.1			0.0794
	Lead	98.6	105	105			0.478
	Manganese	94.8	83.5	83.5			0.0420
	Molybdenum	95.9	108	109			0.380
	Nickel	96.4	90.3	90.3			0.0363
	Selenium	97.6	101	102			0.841
	Silver	100	91.5	91.9			0.400
	Thallium	97.6	99.1	102			2.89
EPA 300.0 Rev. 2.1	Chloride	101	101	99.0		1.37	
	Chloride	103	102	100		2.83	
	Sulfate	99.9	98.7	99.1		1.71	
	Sulfate	101	102	102			
EPA 350.1 Rev. 2.0	Ammonia-N	98.2	99.6	98.6			0.822
	Ammonia-N	98.0	97.4	97.8			0.355
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	101	107			4.56
	Kjeldahl Nitrogen	100					11.3
	Kjeldahl Nitrogen	110	77.3	81.6			2.94
EPA 353.2 Rev. 2.0	NO2NO3-N	96.0	101	100			0.496
	NO2NO3-N	108	107	106			0.939
EPA 365.1 Rev. 2.0	Total-P	98.6	94.9	97.4			1.95
	Total-P	99.6	104	105			0.883
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	34.7	95.3	127			28.5
	Acetochlor	83.3	72.7	79.9			9.52
	Alachlor	117	89.0	94.0			5.43
	Aldrin	54.9	44.2	47.4			7.03
	Alpha-BHC	91.2	84.1	84.9			0.873
	Alpha-Chlordane	84.7	60.1	69.9			15.1
	Ametryn	97.7	121	93.8			25.7
	Atrazine	92.1					6.70
	Atrazine Desethyl	93.9	86.2	107			21.8
	Avobenzone	168	135	184			31.1

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Azinphos Methyl	94.7	65.9	85.7			26.1
	Azoxystrobin	104	81.3	96.4			17.0
	Beta-BHC	105	87.5	95.5			8.81
	Beta-Cyfluthrin	97.4	74.5	90.4			19.3
	Bifenthrin	59.5	51.7	52.3			1.02
	Bromacil	92.9	65.4	76.4			15.6
	Butylate	61.6	62.0	59.5			4.20
	Caffeine	107	106	131			20.8
	Carbophenothion	130	100	118			15.7
	Carbophenothion	51.1	52.8	56.6			6.92
	Carfentrazone Ethyl	101	69.1	77.1			10.9
	Chlorfenapyr	85.0	68.7	75.3			9.20
	Chlorothalonil	102	44.5	27.9			45.9
	Chlorpyrifos Ethyl	86.7	108	85.3			23.7
	Chlorpyrifos Methyl	94.1	79.0	81.6			3.17
	Cis-Nonachlor	82.7	54.4	62.5			13.9
	Coumaphos	114	61.4	92.8			40.7
	Cyanazine	202	164	237			36.1
	Cypermethrin	102	75.2	90.4			18.4
	Cyprodinil	95.6	84.3	87.8			4.09
	Dacthal	95.0	81.5	85.3			4.56
	DDD-p,p'	85.8	60.9	65.5			7.37
	DDE-p,p'	78.9	57.8	64.0			10.2
	DDT-p,p'	71.9	55.5	55.3			0.337
	Dechlorane 602	99.8	75.7	109			35.8
	Dechlorane 603	124	102	135			28.4
	Dechlorane Plus	129	106	93.5			12.9
	Delta-BHC	110	92.7	102			9.71
	Deltamethrin	120	89.5	118			27.6
	Demeton	65.6	63.1	70.6			11.3
	Diazinon	92.8	89.5	86.1			3.86
	Dichlobenil	77.6	44.4	55.4			22.1
	Dicofol	71.7	59.9	58.6			2.20
	Dieldrin	82.4	61.1	68.8			12.0
	Difenoconazole	116	45.9	114			84.9
	Dimethenamid	91.3	72.9	84.6			15.0
	Dimethomorph	132	143	101			34.5
	Disulfoton	83.7	75.7	84.7			11.2
	Dithiopyr	89.4	76.0	80.0			5.10
	Endosulfan I	87.1	64.8	72.5			11.2
	Endosulfan II	95.7	74.6	79.5			6.39
	Endosulfan Sulfate	98.3	70.2	79.2			12.1
	Endrin	86.2	64.8	73.2			12.2
	Endrin Aldehyde	103	100	105			4.57
	Endrin Ketone	78.9	71.2	70.1			1.54
	EPTC	47.0	51.0	49.6			2.66
	Esfenvalerate	95.6	90.7	73.3			21.2
	Ethalfluralin	73.4	65.4	65.8			0.633
	Ethion	82.1	95.9	111			14.8
	Ethoprop	80.9	100	94.8			5.55
	Etridiazole	87.2	77.1	85.9			10.8
	Fenamiphos	84.1	68.7	61.9			10.5
	Fenbuconazole	86.9	37.4	73.6			65.3
	Fenpropathrin	95.6	78.7	69.2			12.8

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Fipronil	125	98.6	111			11.8
	Fipronil Desulfinyl	127	94.9	105			9.71
	Fipronil Sulfide	91.3	75.5	86.7			13.8
	Fipronil Sulfone	88.2	68.2	78.9			14.6
	Fluazifop-P-butyl	80.4	75.1	77.3			2.92
	Fludioxonil	95.3	73.9	84.7			13.7
	Flumioxazin	111	57.0	112			65.0
	Flutolanil	96.3	91.8	101			9.07
	Fluxapyroxad	124	92.7	118			23.8
	Fonofos	88.3	91.8	81.9			11.4
	Gamma-BHC	108	119	120			0.623
	Gamma-Chlordane	81.8	70.0	62.1			12.0
	Heptachlor	67.6	59.1	50.0			16.7
	Heptachlor Epoxide	87.3	73.4	67.9			7.86
	Hexabromobenzene	116	124	133			6.74
	Hexachlorobenzene	65.6	50.3	42.6			16.5
	Hexazinone	92.0	97.6	84.9			13.9
	Imazalil	97.7	178	104			52.4
	Iprodione	132	81.2	53.7			40.9
	Kepone	190	165	153			8.04
	Lambda-Cyhalothrin	84.0	76.8	64.5			17.4
	Loratadine	120	146	90.5			46.9
	Malathion	129	75.7	96.0			23.6
	Metalaxyl	112	101	114			11.4
	Methoprene	63.6	53.9	49.9			7.69
	Methoxychlor	86.6	74.7	74.7			0.0481
	Metolachlor	106	91.2	97.0			5.30
	Metribuzin	100	94.3	94.5			0.195
	Mevinphos	88.0	81.2	73.6			9.86
	MGK-264	87.1	78.9	74.9			5.23
	Mirex	72.4	54.4	47.7			13.0
	Molinate	58.2	57.7	61.5			6.38
	Myclobutanil	89.5	80.7	72.4			10.8
	Naled	43.1	40.9	37.9			7.60
	Napropamide	81.3	73.3	62.2			16.3
	Norflurazon	77.8	68.2	57.0			17.9
	Octinoxate	120	106	116			9.85
	Oxadiazon	81.1	74.1	65.1			12.9
	Oxybenzone	119	114	124			8.10
	Oxychlordane	80.3	64.1	57.9			10.2
	Oxyfluorfen	108	97.1	100			3.10
	Parathion Ethyl	98.3	96.5	93.8			2.81
	Parathion Methyl	92.7	86.5	94.7			9.08
	PBB-153	89.0	107	150			33.8
	PBDE-47	104	101	118			15.4
	PBDE-99	64.6	78.0	112			35.7
	PCB-1016	96.4	70.2	78.2			10.7
	PCB-1260	95.8	65.6	69.2			5.33
	Pendimethalin	103	100	109			8.60
	Pentabromotoluene	111	109	117			6.72
	Permethrin	80.0	66.9	69.0			3.14
	Phenothrin	56.8	55.8	57.0			2.10
	Phenytoin	58.2	58.1	65.8			12.4
	Phorate	84.4	96.7	83.1			15.1

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Piperonyl Butoxide	94.6	79.5	88.0			10.1
	Prallethrin	76.9	69.4	59.6			15.2
	Prodiamine	72.1	59.8	57.9			3.24
	Prometon	85.5	86.4	110			23.9
	Prometryn	128	117	99.4			16.6
	Pronamide	93.6	84.1	82.4			2.10
	Propanil	139	126	125			1.03
	Propargite	119	97.5	85.7			12.9
	Propiconazole	86.4	67.5	63.7			5.70
	Pyraflufen Ethyl	68.1	70.3	58.6			18.1
	Pyridaben	119	111	71.8			43.2
	Pyriproxyfen	130	122	90.8			29.1
	Simazine	79.7	72.4	72.2			0.139
	Stirophos	105	98.0	79.3			21.1
	Sulfentrazone	108	111	92.8			17.8
	Tau-Fluvalinate	86.8	85.7	68.6			22.1
	Tebuconazole	101	82.6	76.8			7.27
	Terbufos	87.2	80.0	90.9			12.8
	Terbuthylazine	105	94.6	96.9			2.43
	Tetradecachloro-m-terphenyl	180	193	215			10.4
	Tetramethrin	85.6	85.3	88.4			3.55
	Thiobencarb	84.2	75.8	55.0			31.7
	Trans-Nonachlor	82.5	66.2	56.2			16.3
	Tri-o-cresyl Phosphate	123	100	120			17.8
	Triadimefon	79.3	83.8	77.4			7.92
	Triclosan Methyl	86.4	70.8	64.2			9.86
	Trifluralin	78.6	62.9	63.7			1.27
	Tris(1-chloro-2-propyl) phosphate (TCPP)	125	107	89.7			18.0
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	110	103	114			9.69
	Tris(2-chloroethyl) phosphate (TCEP)	123	118	119			0.807
EPA 8276	Chlordane	88.8	90.0	87.5			2.86
	Toxaphene	97.4	120	127			5.24
EPA 8321B	2,4-D	95.5	85.5	83.4			1.47
	2,4,5-T	80.0	98.1	96.2			1.99
	3-Hydroxycarbofuran	76.4	79.3	73.1			8.16
	Acesulfame K	92.2	80.8	81.0			0.158
	Acesulfame K	98.8	68.4	67.5			1.35
	Acetaminophen	86.0	93.3	92.7			0.607
	Acetamiprid	73.5	68.3	71.1			4.09
	Afidopyropen	77.3	69.2	72.0			3.91
	Aldicarb	50.7	39.8	48.5			19.8
	Aldicarb Sulfone	91.1	82.5	82.8			0.336
	Aldicarb Sulfoxide	97.0	35.2	36.6			3.94
	AMPA	106	97.6	102			4.23
	AMPA	121	88.1	87.9			0.227
	Bentazon	98.3					
	Benzovindiflupyr	77.9	83.4	86.7			3.86
	Carbamazepine	75.7	71.8	70.0			2.21
	Carbaryl	79.1	76.5	81.7			6.55
	Carbofuran	64.7	62.0	62.4			0.728
	Clothianidin	90.2	96.8	109			7.91

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Dinotefuran	88.8	87.4	85.9			1.71
	Diuron	76.7	72.9	66.0			9.91
	Endothall	85.6	95.1	92.9			2.43
	Endothall	88.2	102	93.9			8.17
	Fenuron	87.0	65.0	66.6			2.49
	Fluridone	88.4					0.155
	Glufosinate	84.6	74.2	82.1			10.1
	Glufosinate	93.7	78.4	84.9			8.02
	Glyphosate	102	90.3	100			9.05
	Glyphosate	106	110	110			0.433
	Hydrocodone	83.5	70.5	69.2			1.85
	Ibuprofen	81.1	51.8	50.0			3.43
	Imazapyr	89.0					1.27
	Imidacloprid	84.5	148	155			3.81
	Linuron	79.8	68.9	76.2			10.2
	Mandestrobin	76.3	81.2	80.3			1.10
	MCPP	93.6	101	101			0.226
	Methiocarb	77.2	79.6	82.6			3.80
	Methomyl	84.4	68.5	71.0			3.67
	Naproxen	60.5	65.3	60.7			7.29
	Oxamyl	88.5	71.0	65.5			8.01
	Primidone	81.1	83.1	84.6			1.53
	Propoxur	73.1	65.2	65.0			0.205
	Pyraclostrobin	78.0	85.4	83.8			1.93
	Silvex	88.6	80.8	93.5			14.6
	Sucralose	117	119	96.2			14.0
	Sucralose	122	121	110			9.33
	Thiamethoxam	89.7	110	113			2.74
	Tolfenpyrad	63.7	63.0	59.2			6.36
	Triclopyr	84.5	88.1	93.4			5.80
SM 2320 B-2011	Total Alkalinity	99.8				0.321	
	Total Alkalinity	97.8				0.702	
SM 2540 C-2015	TDS	103				3.55	
	TDS	100				2.91	
SM 2540 D-2015	TSS	103				7.23	
	TSS	92.7				11.3	
SM 4500-F- C-2011	Fluoride	104	108	108			0.0
	Fluoride	102	101	98.4			1.99
SM 5310 B-2011	Organic Carbon	98.5	95.5	95.2			0.210
	Organic Carbon	95.9	87.2	89.1			1.63

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2410729, 2410731, 2410733
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2410729, 2410731, 2410733
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2410781
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2410781
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2410729, 2410731, 2410733
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2410729, 2410731, 2410733
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2410730, 2410732, 2410734

Reference Method Descriptions

Method	Description	Associated Samples
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2410730, 2410732, 2410734
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2410730, 2410732, 2410734
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2410730, 2410732, 2410734
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2410778, 2410780
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2410777, 2410779
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2410778, 2410780
EPA 8270E	PCBs in water matrices by GC/MS/MS	2410777, 2410779
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2410777, 2410779
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2410773, 2410775
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2410774, 2410776
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2410729, 2410731, 2410733
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2410781
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2410729, 2410731, 2410733
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2410729, 2410731, 2410733
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2410729, 2410731, 2410733
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2410730, 2410732, 2410734

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	05/18/2023			05/18/2023 15:07	Alexis Price	2410729, 2410731
	05/18/2023			05/18/2023 15:38	Alexis Price	2410733
EPA 180.1 Rev. 2.0	05/18/2023			05/18/2023 13:18	Khloe J Berg	2410729
	05/18/2023			05/18/2023 13:19	Khloe J Berg	2410731
	05/18/2023			05/18/2023 13:20	Khloe J Berg	2410733
EPA 200.7 Rev. 4.4	05/18/2023	05/23/2023 11:20	George D Taylor	05/23/2023 22:26	McKinley C Carter	2410781
	05/18/2023	05/23/2023 11:20	George D Taylor	05/23/2023 22:34	McKinley C Carter	2410781
EPA 200.8 Rev. 5.4	05/18/2023	05/23/2023 11:20	George D Taylor	05/25/2023 01:14	Conrad Hartmann	2410781
	05/18/2023	05/23/2023 11:20	George D Taylor	05/25/2023 03:01	Conrad Hartmann	2410781
	05/18/2023	05/23/2023 11:20	George D Taylor	05/25/2023 17:38	Emily M Philpot	2410781
	05/18/2023	05/23/2023 11:20	George D Taylor	05/25/2023 18:40	Emily M Philpot	2410781
EPA 300.0 Rev. 2.1	05/18/2023			05/25/2023 01:12	James L Waggerby	2410729
	05/18/2023			05/25/2023 02:57	James L Waggerby	2410733
	05/18/2023			05/25/2023 03:57	James L Waggerby	2410731
EPA 350.1 Rev. 2.0	05/18/2023			05/24/2023 13:10	Khloe J Berg	2410732
	05/18/2023			05/25/2023 11:56	Khloe J Berg	2410730
	05/18/2023			05/25/2023 13:32	Khloe J Berg	2410734
EPA 351.2 Rev. 2.0	05/18/2023	05/23/2023 11:55	Dana G. Hughes	05/24/2023 12:08	Samantha L Bates	2410732
	05/18/2023	05/23/2023 11:55	Dana G. Hughes	05/24/2023 14:33	Samantha L Bates	2410734
	05/18/2023	06/08/2023 11:16	Dana G. Hughes	06/09/2023 12:29	Samantha L Bates	2410730
EPA 353.2 Rev. 2.0	05/18/2023			05/24/2023 10:04	Beverly Y. Sanders	2410732
	05/18/2023			05/26/2023 11:51	Beverly Y. Sanders	2410730
	05/18/2023			05/26/2023 11:52	Beverly Y. Sanders	2410734
EPA 365.1 Rev. 2.0	05/18/2023	05/23/2023 14:40	Simonne.V. Calhoun	05/24/2023 11:02	Simonne.V. Calhoun	2410732
	05/18/2023	06/02/2023 15:05	Adam P Silver	06/05/2023 13:41	Chandler E Cox	2410730
	05/18/2023	06/02/2023 15:05	Adam P Silver	06/05/2023 13:42	Chandler E Cox	2410734
EPA 8270E	05/18/2023	05/22/2023 08:00	Fe-Val Siddell	05/23/2023 16:58	Vandana T. Nagar	2410778
	05/18/2023	05/22/2023 08:00	Fe-Val Siddell	05/23/2023 17:25	Vandana T. Nagar	2410780
	05/18/2023	05/22/2023 08:00	Fe-Val Siddell	05/24/2023 19:10	Arthur Maknenko	2410778
	05/18/2023	05/22/2023 08:00	Fe-Val Siddell	05/24/2023 19:36	Arthur Maknenko	2410780
	05/18/2023	05/22/2023 08:00	Fe-Val Siddell	05/26/2023 16:20	Vandana T. Nagar	2410778
	05/18/2023	05/24/2023 08:00	Fe-Val Siddell	05/27/2023 23:11	Michael Poppell	2410777
	05/18/2023	05/24/2023 08:00	Fe-Val Siddell	05/27/2023 23:41	Michael Poppell	2410779
	05/18/2023	05/24/2023 08:00	Fe-Val Siddell	05/30/2023 03:01	Julie Wi	2410777
	05/18/2023	05/24/2023 08:00	Fe-Val Siddell	05/30/2023 03:31	Julie Wi	2410779
EPA 8276	05/18/2023	05/24/2023 08:00	Fe-Val Siddell	05/27/2023 12:58	Arthur Maknenko	2410777
	05/18/2023	05/24/2023 08:00	Fe-Val Siddell	05/27/2023 13:54	Arthur Maknenko	2410779
EPA 8321B	05/18/2023	05/19/2023 09:00	Manjita Shrestha	05/20/2023 00:31	Manjita Shrestha	2410774
	05/18/2023	05/19/2023 09:00	Manjita Shrestha	05/21/2023 02:11	Manjita Shrestha	2410774
	05/18/2023	05/19/2023 14:00	Touraj Touran	05/20/2023 02:02	Manjita Shrestha	2410776

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	05/18/2023	05/19/2023 14:00	Touraj Touran	05/20/2023 10:20	Manjita Shrestha	2410776
	05/18/2023	05/19/2023 14:00	Touraj Touran	05/21/2023 03:49	Manjita Shrestha	2410776
	05/18/2023	05/22/2023 09:00	Hoor Shaik	05/24/2023 21:01	Juyoung Kim	2410775
	05/18/2023	05/22/2023 09:00	Hoor Shaik	05/24/2023 22:16	Juyoung Kim	2410773
	05/18/2023	05/23/2023 09:00	Hoor Shaik	05/25/2023 22:42	Juyoung Kim	2410774
	05/18/2023	05/23/2023 09:00	Hoor Shaik	05/26/2023 02:09	Juyoung Kim	2410776
	05/18/2023	05/23/2023 09:00	Hoor Shaik	05/26/2023 12:16	Juyoung Kim	2410774
	05/18/2023	05/23/2023 09:00	Hoor Shaik	05/26/2023 12:35	Juyoung Kim	2410776
SM 2320 B-2011	05/18/2023			05/25/2023 12:38	Dale L. Simmons	2410731
	05/18/2023			05/26/2023 02:34	Dale L. Simmons	2410733
	05/18/2023			05/26/2023 05:24	Dale L. Simmons	2410729
SM 2340 B-2011	05/18/2023			05/23/2023 22:34	McKinley C Carter	2410781
SM 2540 C-2015	05/18/2023			05/19/2023 16:01	Yijie Li	2410729, 2410731, 2410733
SM 2540 D-2015	05/18/2023			05/19/2023 16:01	Yijie Li	2410729, 2410731, 2410733
SM 4500-F- C-2011	05/18/2023			05/25/2023 08:38	Dale L. Simmons	2410731
	05/18/2023			05/26/2023 02:34	Dale L. Simmons	2410733
	05/18/2023			05/26/2023 05:24	Dale L. Simmons	2410729
SM 5310 B-2011	05/18/2023			05/20/2023 01:14	Elise M. Gillis	2410730
	05/18/2023			05/20/2023 01:30	Elise M. Gillis	2410734
	05/18/2023			06/01/2023 23:05	Elise M. Gillis	2410732