

Chemical Analysis Report

SE-DIST-2023-05-02-02

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

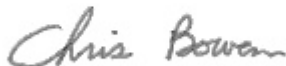
Event Description: **SMP - Okeechobee with blank**
Request ID: **RQ-2023-04-24-29**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Andrew Luering

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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 24-MAY-2023 11:16



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: GOMEZ CREEK NORTH AT 441

Collection Date/Time: 05/01/2023 09:30

Field ID: G3SE0046

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2404511	DEP SOP: NU-094-1	Color (true)	83		PCU	P429269	
	EPA 180.1 Rev. 2.0	Turbidity	3.2		NTU	P429276	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P429563	
		Sulfate	6.9		mg SO4/L	P429566	
	SM 2320 B-2011	Total Alkalinity	10		mg CaCO3/L	P429747	
	SM 2540 C-2015	TDS	89		mg/L	P429605	
	SM 2540 D-2015	TSS	2	U	mg/L	P429606	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P429695	
2404513	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P429355	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.96		mg N/L	P429624	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P429471	
	EPA 365.1 Rev. 2.0	Total-P	0.23		mg P/L	P429310	
	SM 5310 B-2011	Organic Carbon	20		mg C/L	P429459	

Ref. Method and Comment:

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

Sample Location: FORT DRUM CREEK AT 304TH STREET

Collection Date/Time: 05/01/2023 09:45

Field ID: G3SE0012

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2404629	EPA 200.7 Rev. 4.4	Calcium	27.8		mg/L	P429322	
		Iron	1.19E+03		ug/L	P429322	
		Magnesium	1.96		mg/L	P429322	
		Potassium	1.0	I	mg/L	P429322	
		Sodium	7.5		mg/L	P429322	
		Strontium	243		ug/L	P429322	
		Tin	3.0	U	ug/L	P429322	
		Titanium	0.75	U	ug/L	P429322	
		Vanadium	2.0	U	ug/L	P429322	
		Zinc	26		ug/L	P429322	
	EPA 200.8 Rev. 5.4	Aluminum	112		ug/L	P429322	
		Antimony	0.050	U	ug/L	P429322	
		Arsenic	0.37		ug/L	P429322	
		Barium	12.2		ug/L	P429322	
		Beryllium	0.010	I	ug/L	P429322	
		Boron	20.3		ug/L	P429322	
		Cadmium	0.020	U	ug/L	P429322	
		Chromium	0.44	I	ug/L	P429322	
		Cobalt	0.110		ug/L	P429322	
		Copper	0.40	U	ug/L	P429322	
		Lead	0.20	U	ug/L	P429322	
		Manganese	98.8		ug/L	P429322	
		Molybdenum	0.15	U	ug/L	P429322	
		Nickel	0.50	U	ug/L	P429322	
		Selenium	0.20	U	ug/L	P429322	
		Silver	0.010	U	ug/L	P429322	
		Thallium	0.10	U	ug/L	P429322	
	SM 2340 B-2011	Hardness	77.4		mg/L	P429322	

Sample Location: LEMKIN CREEK AT 78

Collection Date/Time: 05/01/2023 10:45

Field ID: G1SE0026

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2404518	DEP SOP: NU-094-1	Color (true)	38		PCU	P429269	
	EPA 180.1 Rev. 2.0	Turbidity	2.3	A	NTU	P429277	
	EPA 300.0 Rev. 2.1	Chloride	140		mg Cl/L	P429563	
		Sulfate	120		mg SO4/L	P429566	
	SM 2320 B-2011	Total Alkalinity	100		mg CaCO3/L	P429747	
	SM 2540 C-2015	TDS	510		mg/L	P429605	
	SM 2540 D-2015	TSS	2	I	mg/L	P429606	
	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P429695	
2404519	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P429355	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P429624	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P429471	
	EPA 365.1 Rev. 2.0	Total-P	0.032		mg P/L	P429310	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P429459	
2404520	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P429261	

Ref. Method and Comment:

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

Sample Location: TAYLOR CREEK AT 98

Collection Date/Time: 05/01/2023 11:10

Field ID: G1SE0025

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2404515	DEP SOP: NU-094-1	Color (true)	76		PCU	P429269	
	EPA 180.1 Rev. 2.0	Turbidity	9.3		NTU	P429276	
	EPA 300.0 Rev. 2.1	Chloride	78		mg Cl/L	P429563	
		Sulfate	34		mg SO4/L	P429566	
	SM 2320 B-2011	Total Alkalinity	146		mg CaCO3/L	P429747	
	SM 2540 C-2015	TDS	363		mg/L	P429605	
	SM 2540 D-2015	TSS	14		mg/L	P429606	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P429695	
2404516	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P429355	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.2		mg N/L	P429624	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P429471	
	EPA 365.1 Rev. 2.0	Total-P	0.24		mg P/L	P429310	
	SM 5310 B-2011	Organic Carbon	24		mg C/L	P429459	
2404517	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.11		mg P/L	P429261	
2404594	EPA 8270E	Aldrin	0.66	U	ng/L	P429278	
		Alpha-BHC	0.10	U	ng/L	P429278	
		Alpha-Chlordane	0.20	U	ng/L	P429278	
		PCB-1016	2.0	U	ng/L	P429278	
		Beta-BHC	0.10	U	ng/L	P429278	
		PCB-1221	2.0	U	ng/L	P429278	
		Beta-Cyfluthrin	1.3	U	ng/L	P429278	
		PCB-1232	2.0	U	ng/L	P429278	
		Bifenthrin	0.51	U	ng/L	P429278	
		PCB-1242	2.0	U	ng/L	P429278	
		PCB-1248	2.0	U	ng/L	P429278	
		Chlorothalonil	3.7	U	ng/L	P429278	
		PCB-1254	2.0	U	ng/L	P429278	
		Cis-Nonachlor	0.20	UJ	ng/L	P429278	CCV
		PCB-1260	2.0	U	ng/L	P429278	
		Cypermethrin	1.5	U	ng/L	P429278	
		Dacthal	0.15	UJ	ng/L	P429278	LCS, MS, RPD
		DDD-p,p'	0.25	U	ng/L	P429278	
		DDE-p,p'	0.20	U	ng/L	P429278	
		DDT-p,p'	0.48	I	ng/L	P429278	
		Delta-BHC	0.41	U	ng/L	P429278	
		Deltamethrin	1.3	U	ng/L	P429278	
		Dichlobenil	0.25	U	ng/L	P429278	
		Dicofol	1.3	U	ng/L	P429278	
		Dieldrin	0.41	U	ng/L	P429278	
		Endosulfan I	0.41	U	ng/L	P429278	
		Endosulfan II	0.41	U	ng/L	P429278	
		Endosulfan Sulfate	0.30	U	ng/L	P429278	
		Endrin	0.41	U	ng/L	P429278	

Field ID: G1SE0025

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2404594	EPA 8270E	Endrin Aldehyde	0.76	U	ng/L	P429278		
		Endrin Ketone	0.41	U	ng/L	P429278		
		Esfenvalerate	0.76	U	ng/L	P429278		
		Ethalfuralin	0.15	U	ng/L	P429278		
		Fenpropathrin	0.25	U	ng/L	P429278	RPD	
		Gamma-BHC	0.13	U	ng/L	P429278		
		Gamma-Chlordane	0.20	U	ng/L	P429278		
		Heptachlor	0.20	U	ng/L	P429278		
		Heptachlor Epoxide	0.25	U	ng/L	P429278	RPD	
		Hexachlorobenzene**	1.0	U	ng/L	P429278		
		Kepone	5.1	UJ	ng/L	P429278	CCV	
		Lambda-Cyhalothrin	0.76	U	ng/L	P429278		
		Methoprene	0.76	U	ng/L	P429278		
		Methoxychlor	0.30	U	ng/L	P429278		
		MGK-264	0.20	U	ng/L	P429278		
		Mirex	0.35	U	ng/L	P429278		
		Oxychlordane	0.30	U	ng/L	P429278		
		Permethrin	1.6	U	ng/L	P429278		
		Phenothrin	0.91	U	ng/L	P429278		
		Piperonyl Butoxide	0.32	I	ng/L	P429278		
		Prallethrin	2.0	U	ng/L	P429278		
		Tau-Fluvalinate	0.25	U	ng/L	P429278		
		Tetramethrin	0.76	U	ng/L	P429278		
		Trans-Nonachlor	0.20	U	ng/L	P429278		
		Triclosan Methyl	0.15	U	ng/L	P429278		
		Trifluralin	0.20	U	ng/L	P429278		
	EPA 8276	Chlordane	2.0	U	ng/L	P429278		
		Toxaphene	15	U	ng/L	P429278		
	2404595	EPA 8270E	Oxybenzone**	11	U	ng/L	P429237	
			Acetochlor	0.21	U	ng/L	P429237	
			Octinoxate**	21	U	ng/L	P429237	
			Alachlor	0.43	U	ng/L	P429237	
Avobenzone**			110	U	ng/L	P429237	RPD	
Ametryn			1.2	UJ	ng/L	P429237	LCS	
Atrazine			81		ng/L	P429237		
PBDE-47**			4.3	U	ng/L	P429237		
Atrazine Desethyl			12		ng/L	P429237		
PBDE-99**			5.3	U	ng/L	P429237	RPD	
Azinphos Methyl			3.2	U	ng/L	P429237		
Tri-o-cresyl Phosphate**			6.4	U	ng/L	P429237		
Azoxystrobin			0.43	U	ng/L	P429237		
Bromacil			0.64	U	ng/L	P429237		
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**			13	U	ng/L	P429237	RPD	
Butylate			0.21	U	ng/L	P429237		

Field ID: G1SE0025

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2404595	EPA 8270E	Dechlorane Plus**	32	U	ng/L	P429237	
		Caffeine**	24	I	ng/L	P429237	
		Dechlorane 602**	5.3	U	ng/L	P429237	RPD
		Carbophenothion	0.53	U	ng/L	P429237	
		Dechlorane 603**	4.3	U	ng/L	P429237	RPD
		Carfentrazone Ethyl	0.16	U	ng/L	P429237	
		Hexabromobenzene**	6.4	U	ng/L	P429237	
		Chlorfenapyr	0.32	U	ng/L	P429237	
		PBB-153**	8.5	U	ng/L	P429237	RPD
		Chlorpyrifos Ethyl	0.32	U	ng/L	P429237	
		Pentabromotoluene**	3.2	U	ng/L	P429237	
		Chlorpyrifos Methyl	0.11	U	ng/L	P429237	MS
		Tris(2-chloroethyl) phosphate (TCEP)**	75	U	ng/L	P429237	
		Coumaphos	1.1	U	ng/L	P429237	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	51	Q	ng/L	P429600	
		Cyanazine	5.3	U	ng/L	P429237	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	3.6	I	ng/L	P429237	
		Cyprodinil	0.21	U	ng/L	P429237	
		Tetradecachloro-m-terphenyl**	8.0	U	ng/L	P429237	
		Demeton	3.7	U	ng/L	P429237	
		Diazinon	0.13	U	ng/L	P429237	
		Difenoconazole	0.64	U	ng/L	P429237	
		Dimethenamid	0.11	U	ng/L	P429237	
		Dimethomorph	0.32	U	ng/L	P429237	
		Disulfoton	0.64	U	ng/L	P429237	
		Dithiopyr	1.1	U	ng/L	P429237	
		EPTC	0.53	U	ng/L	P429237	
		Ethion	0.32	U	ng/L	P429237	
		Ethoprop	0.13	U	ng/L	P429237	
		Etridiazole	0.11	U	ng/L	P429237	
		Fenamiphos	0.48	U	ng/L	P429237	
		Fenbuconazole	0.53	U	ng/L	P429237	
		Fipronil	1.7		ng/L	P429237	
		Fipronil Desulfinyl**	0.73		ng/L	P429237	
		Fipronil Sulfide	0.57		ng/L	P429237	
		Fipronil Sulfone	1.5		ng/L	P429237	
		Fluazifop-P-butyl	0.11	U	ng/L	P429237	
		Fludioxonil	0.11	U	ng/L	P429237	
		Flumioxazin	3.2	U	ng/L	P429237	
		Flutolanil	0.11	U	ng/L	P429237	RPD
		Fluxapyroxad	0.29	I	ng/L	P429237	
		Fonofos	0.16	U	ng/L	P429237	MS, RPD
		Hexazinone	64		ng/L	P429237	
		Imazalil	0.69	U	ng/L	P429237	

Field ID: G1SE0025

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2404595	EPA 8270E	Iprodione	0.53	U	ng/L	P429237	
		Loratadine**	0.32	U	ng/L	P429237	
		Malathion	0.37	U	ng/L	P429237	MS
		Metalaxyl	0.53	U	ng/L	P429237	
		Metolachlor	0.80	U	ng/L	P429237	
		Metribuzin	2.8		ng/L	P429237	
		Mevinphos	1.1	U	ng/L	P429237	
		Molinate	0.27	U	ng/L	P429237	
		Myclobutanil	0.37	U	ng/L	P429237	
		Naled	2.7	U	ng/L	P429237	
		Napropamide	0.75	U	ng/L	P429237	
		Norflurazon	1.1	U	ng/L	P429237	
		Oxadiazon	0.37	U	ng/L	P429237	
		Oxyfluorfen	0.21	U	ng/L	P429237	
		Parathion Ethyl	0.16	U	ng/L	P429237	
		Parathion Methyl	0.21	U	ng/L	P429237	
		Pendimethalin	0.80	UJ	ng/L	P429237	CCV
		Phenytol**	5.7	U	ng/L	P429237	
		Phorate	0.27	U	ng/L	P429237	
		Prodiamine	0.21	UJ	ng/L	P429237	CCV
		Prometon	3.2	U	ng/L	P429237	
		Prometryn	0.37	U	ng/L	P429237	
		Pronamide	0.11	U	ng/L	P429237	
		Propanil	0.11	U	ng/L	P429237	
		Propargite	0.85	U	ng/L	P429237	
		Propiconazole	2.9	I	ng/L	P429237	
		Pyraflufen Ethyl	0.32	U	ng/L	P429237	
		Pyridaben	1.5	U	ng/L	P429237	
		Pyriproxyfen	0.27	U	ng/L	P429237	
		Simazine	0.27	U	ng/L	P429237	
		Stirophos	0.43	U	ng/L	P429237	
		Sulfentrazone	1.5	UJ	ng/L	P429237	CCV
		Tebuconazole	13		ng/L	P429237	
		Terbufos	0.21	U	ng/L	P429237	
		Terbutylazine	0.21	U	ng/L	P429237	
		Thiobencarb	0.53	U	ng/L	P429237	
		Triadimefon	0.16	U	ng/L	P429237	

Ref. Method and Comment:

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

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: Sample expired for preparation for TCPP due to need for re-extraction.

EPA 8270E: MS accuracy for oxadiazon not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB

Collection Date/Time: 05/01/2023 11:25

Field ID: FB_05012023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2404521	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P429270	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P429277	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P429563	
		Sulfate	0.20	U	mg SO4/L	P429566	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P429747	
	SM 2540 C-2015	TDS	15	U	mg/L	P429605	
	SM 2540 D-2015	TSS	2	U	mg/L	P429606	
2404522	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P429695	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P429355	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P429624	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P429471	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P429310	
2404523	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P429459	
2404523	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P429261	
2404596	EPA 8270E	Aldrin	0.67	U	ng/L	P429278	
		Alpha-BHC	0.10	U	ng/L	P429278	
		Alpha-Chlordane	0.20	U	ng/L	P429278	
		PCB-1016	2.0	U	ng/L	P429278	
		Beta-BHC	0.10	U	ng/L	P429278	
		PCB-1221	2.0	U	ng/L	P429278	
		Beta-Cyfluthrin	1.3	U	ng/L	P429278	
		PCB-1232	2.0	U	ng/L	P429278	
		Bifenthrin	0.51	U	ng/L	P429278	
		PCB-1242	2.0	U	ng/L	P429278	
		PCB-1248	2.0	U	ng/L	P429278	
		Chlorothalonil	3.7	U	ng/L	P429278	
		PCB-1254	2.0	U	ng/L	P429278	
		Cis-Nonachlor	0.20	UJ	ng/L	P429278	CCV
		PCB-1260	2.0	U	ng/L	P429278	
		Cypermethrin	1.5	U	ng/L	P429278	
		Dacthal	0.15	UJ	ng/L	P429278	LCS, MS, RPD
		DDD-p,p'	0.26	U	ng/L	P429278	
		DDE-p,p'	0.20	U	ng/L	P429278	
		DDT-p,p'	0.26	U	ng/L	P429278	
		Delta-BHC	0.41	U	ng/L	P429278	
		Deltamethrin	1.3	U	ng/L	P429278	
		Dichlobenil	0.26	U	ng/L	P429278	
		Dicofol	1.3	U	ng/L	P429278	
		Dieldrin	0.41	U	ng/L	P429278	
		Endosulfan I	0.41	U	ng/L	P429278	
		Endosulfan II	0.41	U	ng/L	P429278	
		Endosulfan Sulfate	0.31	U	ng/L	P429278	
		Endrin	0.41	U	ng/L	P429278	

Field ID: FB_05012023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2404596	EPA 8270E	Endrin Aldehyde	0.77	U	ng/L	P429278		
		Endrin Ketone	0.41	U	ng/L	P429278		
		Esfenvalerate	0.77	U	ng/L	P429278		
		Ethalfuralin	0.15	U	ng/L	P429278		
		Fenpropathrin	0.26	U	ng/L	P429278	RPD	
		Gamma-BHC	0.13	U	ng/L	P429278		
		Gamma-Chlordane	0.20	U	ng/L	P429278		
		Heptachlor	0.20	U	ng/L	P429278		
		Heptachlor Epoxide	0.26	U	ng/L	P429278	RPD	
		Hexachlorobenzene**	1.0	U	ng/L	P429278		
		Kepone	5.1	UJ	ng/L	P429278	CCV	
		Lambda-Cyhalothrin	0.77	U	ng/L	P429278		
		Methoprene	0.77	U	ng/L	P429278		
		Methoxychlor	0.31	U	ng/L	P429278		
		MGK-264	0.20	U	ng/L	P429278		
		Mirex	0.36	U	ng/L	P429278		
		Oxychlordane	0.31	U	ng/L	P429278		
		Permethrin	1.6	U	ng/L	P429278		
		Phenothrin	0.92	U	ng/L	P429278		
		Piperonyl Butoxide	0.15	U	ng/L	P429278		
		Prallethrin	2.0	U	ng/L	P429278		
		Tau-Fluvalinate	0.26	U	ng/L	P429278		
		Tetramethrin	0.77	U	ng/L	P429278		
		Trans-Nonachlor	0.20	U	ng/L	P429278		
		Triclosan Methyl	0.15	U	ng/L	P429278		
		Trifluralin	0.20	U	ng/L	P429278		
	EPA 8276	Chlordane	2.0	U	ng/L	P429278		
		Toxaphene	15	U	ng/L	P429278		
	2404597	EPA 8270E	Oxybenzone**	10	U	ng/L	P429237	
			Acetochlor	0.20	U	ng/L	P429237	
			Octinoxate**	20	U	ng/L	P429237	
			Alachlor	0.41	U	ng/L	P429237	
Avobenzone**			100	U	ng/L	P429237	RPD	
Ametryn			1.1	UJ	ng/L	P429237	LCS	
Atrazine			0.20	U	ng/L	P429237		
PBDE-47**			4.1	U	ng/L	P429237		
Atrazine Desethyl			1.3	U	ng/L	P429237		
PBDE-99**			5.1	U	ng/L	P429237	RPD	
Azinphos Methyl			3.1	U	ng/L	P429237		
Tri-o-cresyl Phosphate**			6.1	U	ng/L	P429237		
Azoxystrobin			0.41	U	ng/L	P429237		
Bromacil			0.61	U	ng/L	P429237		
2-Ethylhexyl			12	U	ng/L	P429237	RPD	
2,3,4,5-tetrabromobenzoate (EHTBB)**								
Butylate	0.20	U	ng/L	P429237				

Field ID: FB_05012023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2404597	EPA 8270E	Dechlorane Plus**	31	U	ng/L	P429237	
		Caffeine**	7.7	U	ng/L	P429237	
		Dechlorane 602**	5.1	U	ng/L	P429237	RPD
		Carbophenothion	0.51	U	ng/L	P429237	
		Dechlorane 603**	4.1	U	ng/L	P429237	RPD
		Carfentrazone Ethyl	0.15	U	ng/L	P429237	
		Hexabromobenzene**	6.1	U	ng/L	P429237	
		Chlorfenapyr	0.31	U	ng/L	P429237	
		PBB-153**	8.2	U	ng/L	P429237	RPD
		Chlorpyrifos Ethyl	0.31	U	ng/L	P429237	
		Pentabromotoluene**	3.1	U	ng/L	P429237	
		Chlorpyrifos Methyl	0.10	U	ng/L	P429237	MS
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P429237	
		Coumaphos	1.1	U	ng/L	P429237	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	UQ	ng/L	P429600	
		Cyanazine	5.1	U	ng/L	P429237	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P429237	
		Cyprodinil	0.20	U	ng/L	P429237	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P429237	
		Demeton	3.6	U	ng/L	P429237	
		Diazinon	0.13	U	ng/L	P429237	
		Difenoconazole	0.61	U	ng/L	P429237	
		Dimethenamid	0.10	U	ng/L	P429237	
		Dimethomorph	0.31	U	ng/L	P429237	
		Disulfoton	0.61	U	ng/L	P429237	
		Dithiopyr	1.0	U	ng/L	P429237	
		EPTC	0.51	U	ng/L	P429237	
		Ethion	0.31	U	ng/L	P429237	
		Ethoprop	0.13	U	ng/L	P429237	
		Etridiazole	0.10	U	ng/L	P429237	
		Fenamiphos	0.46	U	ng/L	P429237	
		Fenbuconazole	0.51	U	ng/L	P429237	
		Fipronil	0.20	U	ng/L	P429237	
		Fipronil Desulfinyl**	0.10	U	ng/L	P429237	
		Fipronil Sulfide	0.10	U	ng/L	P429237	
		Fipronil Sulfone	0.10	U	ng/L	P429237	
		Fluazifop-P-butyl	0.10	U	ng/L	P429237	
		Fludioxonil	0.10	U	ng/L	P429237	
		Flumioxazin	3.1	U	ng/L	P429237	
		Flutolanil	0.10	U	ng/L	P429237	RPD
		Fluxapyroxad	0.26	U	ng/L	P429237	
		Fonofos	0.15	U	ng/L	P429237	MS, RPD
		Hexazinone	0.51	U	ng/L	P429237	
		Imazalil	0.66	U	ng/L	P429237	

Field ID: FB_05012023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2404597	EPA 8270E	Iprodione	0.51	U	ng/L	P429237	
		Loratadine**	0.31	U	ng/L	P429237	
		Malathion	0.36	U	ng/L	P429237	MS
		Metalaxyl	0.51	U	ng/L	P429237	
		Metolachlor	0.77	U	ng/L	P429237	
		Metribuzin	0.41	U	ng/L	P429237	
		Mevinphos	1.0	U	ng/L	P429237	
		Molinate	0.26	U	ng/L	P429237	
		Myclobutanil	0.36	U	ng/L	P429237	
		Naled	2.6	U	ng/L	P429237	
		Napropamide	0.72	U	ng/L	P429237	
		Norflurazon	1.0	U	ng/L	P429237	
		Oxadiazon	0.36	U	ng/L	P429237	
		Oxyfluorfen	0.20	U	ng/L	P429237	
		Parathion Ethyl	0.15	U	ng/L	P429237	
		Parathion Methyl	0.20	U	ng/L	P429237	
		Pendimethalin	0.77	UJ	ng/L	P429237	CCV
		Phenytol**	5.4	U	ng/L	P429237	
		Phorate	0.26	U	ng/L	P429237	
		Prodiamine	0.20	UJ	ng/L	P429237	CCV
		Prometon	3.1	U	ng/L	P429237	
		Prometryn	0.36	U	ng/L	P429237	
		Pronamide	0.10	U	ng/L	P429237	
		Propanil	0.10	U	ng/L	P429237	
		Propargite	0.82	U	ng/L	P429237	
		Propiconazole	0.61	U	ng/L	P429237	
		Pyraflufen Ethyl	0.31	U	ng/L	P429237	
		Pyridaben	1.4	U	ng/L	P429237	
		Pyriproxyfen	0.26	U	ng/L	P429237	
		Simazine	0.26	U	ng/L	P429237	
		Stirophos	0.41	U	ng/L	P429237	
		Sulfentrazone	1.4	UJ	ng/L	P429237	CCV
		Tebuconazole	1.4	U	ng/L	P429237	
		Terbufos	0.20	U	ng/L	P429237	
		Terbutylazine	0.20	U	ng/L	P429237	
		Thiobencarb	0.51	U	ng/L	P429237	
		Triadimefon	0.15	U	ng/L	P429237	

Ref. Method and Comment:

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

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: Sample expired for preparation for TCPP due to need for re-extraction.

EPA 8270E: MS accuracy for oxadiazon not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: LETTUCE CREEK AT 710

Collection Date/Time: 05/01/2023 12:00

Field ID: G1SE0015

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2404512	DEP SOP: NU-094-1	Color (true)	150		PCU	P429269	
	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P429276	
	EPA 300.0 Rev. 2.1	Chloride	74		mg Cl/L	P429563	
		Sulfate	16		mg SO4/L	P429566	
	SM 2320 B-2011	Total Alkalinity	125		mg CaCO3/L	P429747	
	SM 2540 C-2015	TDS	328		mg/L	P429605	
	SM 2540 D-2015	TSS	3	I	mg/L	P429606	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P429695	
2404514	EPA 350.1 Rev. 2.0	Ammonia-N	0.049		mg N/L	P429355	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P429624	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.050		mg N/L	P429471	
	EPA 365.1 Rev. 2.0	Total-P	0.26		mg P/L	P429310	
	SM 5310 B-2011	Organic Carbon	28		mg C/L	P429459	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P429269

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P429270

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429276

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429277

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P429322

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: P429322

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429322

Component	Result	Code	Units
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: P429563

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429566

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429355

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429624

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429471

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429310

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P429261

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

Reference Method: EPA 8270E
Batch ID: P429237

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P429237

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P429237

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P429237

Component	Result	Code	Units
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
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
Phenytol	5.3	U	ng/L
Phenytol	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P429237

Component	Result	Code	Units
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
Terbutylazine	0.20	U	ng/L
Terbutylazine	0.20	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Tetradecachloro-m-terphenyl	7.5	U	ng/L
Thiobencarb	0.50	U	ng/L
Thiobencarb	0.50	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.15	U	ng/L
Triadimefon	0.15	U	ng/L
Tris(1,3-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: P429278

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P429278

Component	Result	Code	Units
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
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
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P429278

Component	Result	Code	Units
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
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 8270E

Batch ID: P429600

Component	Result	Code	Units
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P429600

Component	Result	Code	Units
Tris(1-chloro-2-propyl) phosphate (TCPP)	15	U	ng/L

Reference Method: EPA 8276
Batch ID: P429278

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: SM 2320 B-2011
Batch ID: P429747

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

Reference Method: SM 2540 C-2015
Batch ID: P429605

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P429606

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P429695

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P429459

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: P429269

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	96.1		P	90 - 110

Reference Method: DEP SOP: NU-094-1
Batch ID: P429270

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.4		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429276

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429277

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	99.4		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P429322

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	101		P	85 - 115
Iron	103		P	85 - 115
Magnesium	102		P	85 - 115
Potassium	103		P	85 - 115
Sodium	96.8		P	85 - 115
Strontium	100		P	85 - 115
Tin	100		P	85 - 115
Titanium	98.9		P	85 - 115
Vanadium	98.6		P	85 - 115
Zinc	100		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429322

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	80 - 120
Antimony	101		P	80 - 120
Arsenic	98.9		P	80 - 120
Barium	102		P	80 - 120
Beryllium	92.1		P	80 - 120
Boron	105		P	80 - 120
Cadmium	98.9		P	80 - 120
Chromium	99.1		P	80 - 120
Cobalt	96.8		P	80 - 120
Copper	99.0		P	80 - 120
Lead	93.2		P	80 - 120
Manganese	100		P	80 - 120
Molybdenum	98.1		P	80 - 120

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429322

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Nickel	98.0		P	80 - 120
Selenium	97.9		P	80 - 120
Silver	99.5		P	80 - 120
Thallium	101		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429563

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429566

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429355

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429624

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429471

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429310

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P429261

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

Reference Method: EPA 8270E
Batch ID: P429237

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	70.6		P	42 - 162

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P429237

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	73.4		P	69 - 123
Alachlor	88.3		P	65 - 118
Ametryn	150		F	58 - 141
Atrazine	101		P	73 - 118
Atrazine Desethyl	123		P	32 - 125
Avobenzone	99.8		P	40 - 203
Azinphos Methyl	84.2		P	36 - 197
Azoxystrobin	79.2		P	58 - 226
Bromacil	110		P	48 - 120
Butylate	70.9		P	27 - 85.0
Caffeine	106		P	40 - 137
Carbophenothion	107		P	54 - 132
Carfentrazone Ethyl	114		P	60 - 142
Chlorfenapyr	77.4		P	53 - 117
Chlorpyrifos Ethyl	92.9		P	59 - 116
Chlorpyrifos Methyl	90.8		P	66 - 119
Coumaphos	48.1		P	11 - 234
Cyanazine	127		P	61 - 248
Cyprodinil	92.5		P	50 - 147
Dechlorane 602	72.6		P	50 - 150
Dechlorane 603	87.3		P	50 - 150
Dechlorane Plus	102		P	47 - 182
Demeton	82.5		P	30 - 138
Diazinon	115		P	67 - 126
Difenoconazole	38.1		P	38 - 205
Dimethenamid	98.4		P	57 - 111
Dimethomorph	151		P	16 - 212
Disulfoton	117		P	46 - 126
Dithiopyr	107		P	62 - 115
EPTC	68.6		P	28 - 80.0
Ethion	81.7		P	24 - 122
Ethoprop	100		P	62 - 113
Etridiazole	84.6		P	28 - 92.0
Fenamiphos	79.3		P	57 - 128
Fenbuconazole	96.3		P	52 - 155
Fipronil	101		P	63 - 130
Fipronil Desulfinyl	98.9		P	61 - 130
Fipronil Sulfide	104		P	56 - 117
Fipronil Sulfone	92.2		P	52 - 118
Fluazifop-P-butyl	69.4		P	61 - 128
Fludioxonil	72.6		P	59 - 129
Flumioxazin	65.5		P	30 - 250
Flutolanil	84.5		P	53 - 127
Fluxapyroxad	85.0		P	42 - 132
Fonofos	103		P	61 - 110
Hexabromobenzene	101		P	50 - 150
Hexazinone	94.8		P	46 - 139
Imazalil	43.9		P	40 - 139
Iprodione	63.2		P	40 - 146
Loratadine	59.9		P	10 - 224
Malathion	76.9		P	61 - 135
Metalaxyl	91.9		P	58 - 121

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P429237

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metolachlor	100		P	64 - 118
Metribuzin	103		P	45 - 245
Mevinphos	95.3		P	49 - 118
Molinate	67.8		P	42 - 92.0
Myclobutanil	93.1		P	55 - 127
Naled	42.2		P	10 - 114
Napropamide	76.2		P	39 - 121
Norflurazon	82.0		P	55 - 129
Octinoxate	104		P	26 - 166
Oxadiazon	86.5		P	54 - 115
Oxybenzone	106		P	49 - 135
Oxyfluorfen	94.4		P	64 - 139
Parathion Ethyl	102		P	70 - 111
Parathion Methyl	97.4		P	76 - 136
PBB-153	83.3		P	50 - 150
PBDE-47	91.8		P	41 - 148
PBDE-99	68.5		P	38 - 147
Pendimethalin	110		P	52 - 118
Pentabromotoluene	96.2		P	50 - 150
Phenytoin	63.0		P	10 - 162
Phorate	115		P	40 - 122
Prodiamine	76.9		P	26 - 141
Prometon	117		P	54 - 122
Prometryn	88.9		P	61 - 128
Pronamide	96.4		P	72 - 121
Propanil	108		P	45 - 144
Propargite	90.7		P	10 - 199
Propiconazole	61.3		P	56 - 127
Pyraflufen Ethyl	72.4		P	56 - 140
Pyridaben	36.7		P	26 - 211
Pyriproxyfen	86.9		P	33 - 194
Simazine	89.6		P	67 - 121
Stirophos	85.4		P	20 - 142
Sulfentrazone	66.5		P	21 - 144
Tebuconazole	76.9		P	10 - 122
Terbufos	103		P	60 - 129
Terbuthylazine	89.2		P	69 - 113
Tetradecachloro-m-terphenyl	140		P	70 - 200
Thiobencarb	114		P	51 - 120
Tri-o-cresyl Phosphate	98.7		P	49 - 150
Triadimefon	104		P	56 - 114
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.7		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	105		P	70 - 180

Reference Method: EPA 8270E

Batch ID: P429278

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	37.1		P	10 - 92.0
Alpha-BHC	98.5		P	75 - 107
Alpha-Chlordane	59.6		P	50 - 108
Beta-BHC	83.5		P	36 - 138

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P429278

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	55.6		P	20 - 161
Bifenthrin	48.6		P	10 - 119
Chlorothalonil	61.5		P	26 - 186
Cis-Nonachlor	69.3		P	42 - 119
Cypermethrin	129		P	22 - 150
Dacthal	66.8		F	72 - 119
DDD-p,p'	78.9		P	45 - 107
DDE-p,p'	68.2		P	48 - 106
DDT-p,p'	68.2		P	48 - 110
Delta-BHC	100		P	54 - 140
Deltamethrin	64.1		P	22 - 189
Dichlobenil	116		P	36 - 117
Dicofol	56.1		P	46 - 155
Dieldrin	84.9		P	54 - 110
Endosulfan I	80.4		P	59 - 105
Endosulfan II	75.0		P	51 - 118
Endosulfan Sulfate	61.5		P	57 - 121
Endrin	82.5		P	10 - 120
Endrin Aldehyde	48.2		P	34 - 118
Endrin Ketone	87.8		P	69 - 177
Esfenvalerate	61.6		P	23 - 168
Ethalfuralin	70.0		P	49 - 99.0
Fenpropathrin	48.8		P	34 - 117
Gamma-BHC	114		P	72 - 117
Gamma-Chlordane	52.0		P	43 - 106
Heptachlor	78.8		P	41 - 98.0
Heptachlor Epoxide	69.4		P	57 - 106
Hexachlorobenzene	77.1		P	36 - 99.0
Kepone	126		P	16 - 215
Lambda-Cyhalothrin	65.1		P	21 - 177
Methoprene	45.3		P	10 - 119
Methoxychlor	79.5		P	60 - 112
MGK-264	92.2		P	26 - 122
Mirex	60.6		P	10 - 169
Oxychlordane	71.2		P	43 - 105
PCB-1016	79.5		P	48 - 112
PCB-1260	114		P	44 - 118
Permethrin	67.9		P	24 - 148
Phenothrin	50.3		P	10 - 106
Piperonyl Butoxide	87.3		P	10 - 139
Prallethrin	57.1		P	17 - 109
Tau-Fluvalinate	53.8		P	13 - 131
Tetramethrin	74.2		P	10 - 132
Trans-Nonachlor	46.1		P	44 - 106
Triclosan Methyl	73.5		P	59 - 109
Trifluralin	69.4		P	44 - 101

Reference Method: EPA 8270E

Batch ID: P429600

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Tris(1-chloro-2-propyl) phosphate (TCPP)	102		P	50 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276

Batch ID: P429278

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	78.7		P	61 - 116
Toxaphene	90.8		P	48 - 124

Reference Method: SM 2320 B-2011

Batch ID: P429747

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.0		P	94 - 106

Reference Method: SM 2540 C-2015

Batch ID: P429605

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	95.4		P	90 - 110

Reference Method: SM 2540 D-2015

Batch ID: P429606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	91.7		P	85 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P429695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.0		P	96 - 104

Reference Method: SM 5310 B-2011

Batch ID: P429459

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P429322

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404444	Calcium	102		P	80 - 120
2404444	Iron	106	105	P/P	80 - 120
2404444	Magnesium	103	102	P/P	80 - 120
2404444	Potassium	104	105	P/P	80 - 120
2404444	Sodium	98.3		P	80 - 120
2404444	Strontium	103	102	P/P	80 - 120
2404444	Tin	103	102	P/P	80 - 120
2404444	Titanium	104	103	P/P	80 - 120
2404444	Vanadium	105	104	P/P	80 - 120
2404444	Zinc	106	104	P/P	80 - 120
2404905	Calcium	103		P	80 - 120
2404905	Iron	106		P	80 - 120
2404905	Magnesium	102		P	80 - 120
2404905	Potassium	106		P	80 - 120
2404905	Sodium	99.5		P	80 - 120
2404905	Strontium	102		P	80 - 120
2404905	Tin	99.8		P	80 - 120
2404905	Titanium	103		P	80 - 120
2404905	Vanadium	102		P	80 - 120
2404905	Zinc	100		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P429322

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404444	Aluminum	99.1	100	P/P	80 - 120
2404444	Antimony	100	102	P/P	80 - 120
2404444	Arsenic	100	102	P/P	80 - 120
2404444	Barium	101	102	P/P	80 - 120
2404444	Beryllium	95.3	101	P/P	80 - 120
2404444	Boron	102	105	P/P	80 - 120
2404444	Cadmium	100	100	P/P	80 - 120
2404444	Chromium	96.9	98.6	P/P	80 - 120
2404444	Cobalt	96.5	98.8	P/P	80 - 120
2404444	Copper	99.7	101	P/P	80 - 120
2404444	Lead	94.4	95.5	P/P	80 - 120
2404444	Manganese	99.2	100	P/P	80 - 120
2404444	Molybdenum	99.5	100	P/P	80 - 120
2404444	Nickel	97.5	98.8	P/P	80 - 120
2404444	Selenium	99.2	100	P/P	80 - 120
2404444	Silver	98.2	98.0	P/P	80 - 120
2404444	Thallium	104	105	P/P	80 - 120
2404905	Aluminum	102		P	80 - 120
2404905	Antimony	102		P	80 - 120
2404905	Arsenic	99.6		P	80 - 120
2404905	Barium	102		P	80 - 120
2404905	Beryllium	96.9		P	80 - 120
2404905	Boron	109		P	80 - 120
2404905	Cadmium	102		P	80 - 120
2404905	Chromium	102		P	80 - 120
2404905	Cobalt	97.3		P	80 - 120
2404905	Copper	98.8		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429322

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404905	Lead	95.0		P	80 - 120
2404905	Manganese	102		P	80 - 120
2404905	Molybdenum	101		P	80 - 120
2404905	Nickel	99.4		P	80 - 120
2404905	Selenium	97.8		P	80 - 120
2404905	Silver	100		P	80 - 120
2404905	Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429563

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404436	Chloride	98.6		P	90 - 110
2404637	Chloride	98.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429566

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404436	Sulfate	99.1		P	90 - 110
2404637	Sulfate	98.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429355

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404437	Ammonia-N	100	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429624

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404437	Kjeldahl Nitrogen	95.1	98.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429471

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404391	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429310

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404437	Total-P	105	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P429261

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404438	O-Phosphate-P	98.9	99.6	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P429237

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404643	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	72.0	109	P/P	26 - 165
2404643	Acetochlor	83.9	110	P/P	67 - 124
2404643	Alachlor	109	106	P/P	60 - 120
2404643	Ametryn	134	128	P/P	54 - 216
2404643	Atrazine	87.1	103	P/P	66 - 128
2404643	Atrazine Desethyl	107	109	P/P	15 - 122
2404643	Avobenzone	98.0	165	P/P	37 - 178
2404643	Azinphos Methyl	43.1	83.3	P/P	40 - 292
2404643	Azoxystrobin	80.7	112	P/P	35 - 220
2404643	Bromacil	84.2	110	P/P	45 - 127
2404643	Butylate	64.6	56.4	P/P	20 - 83.0
2404643	Caffeine	76.3	81.5	P/P	10 - 194
2404643	Carbophenothion	92.3	115	P/P	57 - 127
2404643	Carfentrazone Ethyl	90.8	117	P/P	51 - 141
2404643	Chlorfenapyr	55.5	70.0	P/P	46 - 111
2404643	Chlorpyrifos Ethyl	67.2	69.3	P/P	52 - 120
2404643	Chlorpyrifos Methyl	57.9	62.9	F/F	63 - 119
2404643	Coumaphos	107	119	P/P	10 - 228
2404643	Cyanazine	109	130	P/P	59 - 241
2404643	Cyprodinil	65.8	86.1	P/P	47 - 146
2404643	Dechlorane 602	61.2	86.0	P/P	50 - 150
2404643	Dechlorane 603	81.1	117	P/P	50 - 150
2404643	Dechlorane Plus	104	89.5	P/P	50 - 150
2404643	Demeton	81.2	86.6	P/P	40 - 136
2404643	Diazinon	95.5	117	P/P	69 - 132
2404643	Difenoconazole	106	89.3	P/P	57 - 258
2404643	Dimethenamid	80.2	101	P/P	54 - 110
2404643	Dimethomorph	158	148	P/P	28 - 210
2404643	Disulfoton	105	122	P/P	43 - 133
2404643	Dithiopyr	82.0	94.8	P/P	39 - 116
2404643	EPTC	59.5	53.1	P/P	20 - 78.0
2404643	Ethion	87.8	106	P/P	17 - 119
2404643	Ethoprop	88.0	97.9	P/P	66 - 120
2404643	Etridiazole	80.7	72.9	P/P	28 - 96.0
2404643	Fenamiphos	103	102	P/P	41 - 126
2404643	Fenbuconazole	67.1	99.9	P/P	42 - 169
2404643	Fipronil	85.4	81.7	P/P	61 - 132
2404643	Fipronil Desulfinyl	74.5	98.3	P/P	56 - 132
2404643	Fipronil Sulfide	77.5	93.3	P/P	48 - 119
2404643	Fipronil Sulfone	80.3	91.9	P/P	42 - 131
2404643	Fluazifop-P-butyl	77.3	68.1	P/P	53 - 131
2404643	Fludioxonil	65.7	80.2	P/P	56 - 127
2404643	Flumioxazin	80.4	90.6	P/P	19 - 300
2404643	Flutolanil	75.1	109	P/P	41 - 127
2404643	Fluxapyroxad	79.6	88.2	P/P	42 - 172
2404643	Fonofos	69.0	46.3	P/F	59 - 113
2404643	Hexabromobenzene	104	123	P/P	50 - 150
2404643	Hexazinone	87.4	97.1	P/P	66 - 122
2404643	Imazalil	66.2	69.4	P/P	21 - 283
2404643	Iprodione	108	101	P/P	43 - 150
2404643	Loratadine	114	127	P/P	23 - 201
2404643	Malathion	167	208	F/F	58 - 136

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P429237

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404643	Metalaxyl	100	99.2	P/P	55 - 120
2404643	Metolachlor	81.1	89.8	P/P	57 - 121
2404643	Metribuzin	102	101	P/P	58 - 294
2404643	Mevinphos	81.3	109	P/P	50 - 126
2404643	Molinate	59.3	60.6	P/P	42 - 93.0
2404643	Myclobutanil	91.5	97.0	P/P	55 - 125
2404643	Naled	31.6	36.4	P/P	18 - 200
2404643	Napropamide	57.8	74.5	P/P	39 - 110
2404643	Norflurazon	93.1	95.7	P/P	48 - 128
2404643	Octinoxate	101	114	P/P	21 - 159
2404643	Oxybenzone	104	123	P/P	41 - 142
2404643	Oxyfluorfen	85.3	103	P/P	64 - 153
2404643	Parathion Ethyl	98.9	97.1	P/P	69 - 114
2404643	Parathion Methyl	104	105	P/P	79 - 139
2404643	PBB-153	77.3	130	P/P	50 - 150
2404643	PBDE-47	84.8	101	P/P	27 - 144
2404643	PBDE-99	57.2	91.1	P/P	18 - 150
2404643	Pendimethalin	96.5	114	P/P	50 - 139
2404643	Pentabromotoluene	97.7	111	P/P	50 - 150
2404643	Phenytoin	40.0	56.4	P/P	10 - 146
2404643	Phorate	109	118	P/P	54 - 161
2404643	Prodiamine	60.0	67.3	P/P	30 - 161
2404643	Prometon	97.5	110	P/P	45 - 134
2404643	Prometryn	81.4	96.4	P/P	45 - 137
2404643	Pronamide	76.2	96.7	P/P	65 - 133
2404643	Propanil	92.0	109	P/P	49 - 142
2404643	Propargite	42.4	63.2	P/P	10 - 203
2404643	Propiconazole	67.7	75.0	P/P	38 - 146
2404643	Pyraflufen Ethyl	62.0	47.4	P/P	34 - 153
2404643	Pyridaben	62.7	70.2	P/P	12 - 192
2404643	Pyriproxyfen	49.0	87.3	P/P	33 - 180
2404643	Simazine	80.4	97.2	P/P	51 - 157
2404643	Stiropfos	72.7	82.8	P/P	10 - 128
2404643	Sulfentrazone	57.9	64.6	P/P	53 - 186
2404643	Tebuconazole	57.1	64.6	P/P	10 - 133
2404643	Terbufos	85.7	109	P/P	65 - 139
2404643	Terbuthylazine	71.8	95.2	P/P	66 - 117
2404643	Tetradecachloro-m-terphenyl	151	183	P/P	70 - 200
2404643	Thiobencarb	92.3	104	P/P	51 - 119
2404643	Tri-o-cresyl Phosphate	96.1	115	P/P	31 - 144
2404643	Triadimefon	96.6	109	P/P	48 - 119
2404643	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	89.2	101	P/P	50 - 150
2404643	Tris(2-chloroethyl) phosphate (TCEP)	101	107	P/P	70 - 180

Reference Method: EPA 8270E

Batch ID: P429278

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404645	Aldrin	47.8	50.2	P/P	20 - 82.0
2404645	Alpha-BHC	94.3	95.7	P/P	71 - 109
2404645	Alpha-Chlordane	73.2	71.5	P/P	42 - 106
2404645	Beta-BHC	141	102	P/P	69 - 180

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P429278

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404645	Beta-Cyfluthrin	113	85.6	P/P	18 - 175
2404645	Bifenthrin	72.8	53.5	P/P	21 - 128
2404645	Chlorothalonil	32.6	65.1	P/P	10 - 300
2404645	Cis-Nonachlor	51.3	52.7	P/P	34 - 106
2404645	Cypermethrin	93.4	120	P/P	22 - 158
2404645	Dacthal	146	107	F/P	54 - 116
2404645	DDD-p,p'	79.0	75.3	P/P	34 - 107
2404645	DDE-p,p'	53.8	39.6	P/P	33 - 110
2404645	DDT-p,p'	68.5	60.2	P/P	50 - 122
2404645	Delta-BHC	95.1	106	P/P	77 - 193
2404645	Deltamethrin	58.7	43.7	P/P	10 - 195
2404645	Dichlobenil	96.7	80.3	P/P	25 - 113
2404645	Dicofol	71.8	67.3	P/P	38 - 247
2404645	Dieldrin	65.5	62.9	P/P	45 - 118
2404645	Endosulfan I	66.9	65.2	P/P	51 - 106
2404645	Endosulfan II	69.1	69.5	P/P	37 - 122
2404645	Endosulfan Sulfate	125	87.8	P/P	43 - 132
2404645	Endrin	93.1	71.3	P/P	29 - 101
2404645	Endrin Aldehyde	68.9	78.2	P/P	19 - 110
2404645	Endrin Ketone	80.1	70.5	P/P	60 - 140
2404645	Esfenvalerate	50.8	49.1	P/P	26 - 199
2404645	Ethalfuralin	66.9	71.9	P/P	45 - 99.0
2404645	Fenpropathrin	95.4	66.5	P/P	35 - 120
2404645	Gamma-BHC	111	95.7	P/P	63 - 128
2404645	Gamma-Chlordane	69.8	70.8	P/P	40 - 104
2404645	Heptachlor	69.6	61.1	P/P	36 - 97.0
2404645	Heptachlor Epoxide	108	74.2	P/P	49 - 184
2404645	Hexachlorobenzene	85.6	70.6	P/P	39 - 96.0
2404645	Kepone	111	54.4	P/P	10 - 217
2404645	Lambda-Cyhalothrin	94.3	75.8	P/P	21 - 193
2404645	Methoprene	62.0	56.4	P/P	20 - 106
2404645	Methoxychlor	53.7	60.8	P/P	53 - 118
2404645	MGK-264	53.3	49.7	P/P	40 - 118
2404645	Mirex	48.4	39.2	P/P	26 - 92.0
2404645	Oxychlordane	61.7	75.4	P/P	44 - 99.0
2404645	Permethrin	53.1	75.4	P/P	33 - 182
2404645	Phenothrin	74.8	77.7	P/P	10 - 129
2404645	Piperonyl Butoxide	61.6	86.1	P/P	10 - 211
2404645	Prallethrin	73.3	73.2	P/P	24 - 113
2404645	Tau-Fluvalinate	50.0	39.3	P/P	14 - 149
2404645	Tetramethrin	117	87.8	P/P	17 - 151
2404645	Trans-Nonachlor	72.4	64.7	P/P	42 - 102
2404645	Triclosan Methyl	65.4	84.4	P/P	48 - 108
2404645	Trifluralin	61.5	66.2	P/P	47 - 96.0
2405764	PCB-1016	64.4	79.8	P/P	46 - 111
2405764	PCB-1260	73.4	87.4	P/P	45 - 114

Reference Method: EPA 8270E

Batch ID: P429600

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2407708	Tris(1-chloro-2-propyl) phosphate (TCPP)	94.4	87.0	P/P	50 - 150

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P429278

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405764	Chlordane	76.6	83.0	P/P	53 - 126
2405764	Toxaphene	93.8	96.0	P/P	56 - 211

Reference Method: SM 4500-F- C-2011
Batch ID: P429695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404876	Fluoride	101	101	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P429459

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2404437	Organic Carbon	95.8	103	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P429269

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404436	Color (true)	5.26	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P429270

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404524	Color (true)	1.99	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429276

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404542	Turbidity	13.3	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429277

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404518	Turbidity	17.9	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P429322

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404444	Calcium	0.936	Spike	P	0 - 20
2404444	Iron	1.20	Spike	P	0 - 20
2404444	Magnesium	0.891	Spike	P	0 - 20
2404444	Potassium	0.149	Spike	P	0 - 20
2404444	Sodium	0.658	Spike	P	0 - 20
2404444	Strontium	0.916	Spike	P	0 - 20
2404444	Tin	0.886	Spike	P	0 - 20
2404444	Titanium	1.46	Spike	P	0 - 20
2404444	Vanadium	1.46	Spike	P	0 - 20
2404444	Zinc	1.12	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429322

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404444	Aluminum	0.896	Spike	P	0 - 20
2404444	Antimony	1.56	Spike	P	0 - 20
2404444	Arsenic	1.61	Spike	P	0 - 20
2404444	Barium	0.897	Spike	P	0 - 20
2404444	Beryllium	6.10	Spike	P	0 - 20
2404444	Boron	2.26	Spike	P	0 - 20
2404444	Cadmium	0.199	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429322

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404444	Chromium	1.67	Spike	P	0 - 20
2404444	Cobalt	2.43	Spike	P	0 - 20
2404444	Copper	0.956	Spike	P	0 - 20
2404444	Lead	1.16	Spike	P	0 - 20
2404444	Manganese	0.798	Spike	P	0 - 20
2404444	Molybdenum	0.473	Spike	P	0 - 20
2404444	Nickel	1.34	Spike	P	0 - 20
2404444	Selenium	1.11	Spike	P	0 - 20
2404444	Silver	0.195	Spike	P	0 - 20
2404444	Thallium	1.06	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429563

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404436	Chloride	0.0860	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429566

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404436	Sulfate	0.310	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429355

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404437	Ammonia-N	1.32	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429624

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404437	Kjeldahl Nitrogen	2.04	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429471

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404391	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429310

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P429310

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404437	Total-P	0.0672	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P429261

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404438	O-Phosphate-P	0.705	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P429237

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404643	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	41.0	Spike	F	0 - 37
2404643	Acetochlor	26.6	Spike	P	0 - 28
2404643	Alachlor	3.27	Spike	P	0 - 30
2404643	Ametryn	4.69	Spike	P	0 - 32
2404643	Atrazine	10.5	Spike	P	0 - 41
2404643	Atrazine Desethyl	2.01	Spike	P	0 - 36
2404643	Avobenzone	50.7	Spike	F	0 - 36
2404643	Azinphos Methyl	51.0	Spike	P	0 - 75
2404643	Azoxystrobin	32.4	Spike	P	0 - 39
2404643	Bromacil	26.4	Spike	P	0 - 33
2404643	Butylate	13.6	Spike	P	0 - 44
2404643	Caffeine	1.15	Spike	P	0 - 74
2404643	Carbophenothion	21.7	Spike	P	0 - 25
2404643	Carfentrazone Ethyl	24.9	Spike	P	0 - 27
2404643	Chlorfenapyr	23.0	Spike	P	0 - 24
2404643	Chlorpyrifos Ethyl	3.09	Spike	P	0 - 26
2404643	Chlorpyrifos Methyl	8.24	Spike	P	0 - 26
2404643	Coumaphos	10.9	Spike	P	0 - 28
2404643	Cyanazine	17.1	Spike	P	0 - 48
2404643	Cyprodinil	26.7	Spike	P	0 - 29
2404643	Dechlorane 602	33.7	Spike	F	0 - 30
2404643	Dechlorane 603	36.2	Spike	F	0 - 30
2404643	Dechlorane Plus	14.7	Spike	P	0 - 30
2404643	Demeton	6.44	Spike	P	0 - 33
2404643	Diazinon	20.4	Spike	P	0 - 29
2404643	Difenoconazole	17.4	Spike	P	0 - 34
2404643	Dimethenamid	23.0	Spike	P	0 - 39
2404643	Dimethomorph	6.31	Spike	P	0 - 51
2404643	Disulfoton	15.1	Spike	P	0 - 30
2404643	Dithiopyr	12.7	Spike	P	0 - 26
2404643	EPTC	11.3	Spike	P	0 - 43
2404643	Ethion	18.8	Spike	P	0 - 79
2404643	Ethoprop	10.6	Spike	P	0 - 29
2404643	Etridiazole	10.2	Spike	P	0 - 33
2404643	Fenamiphos	1.59	Spike	P	0 - 40
2404643	Fenbuconazole	39.2	Spike	P	0 - 74
2404643	Fipronil	4.49	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P429237

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404643	Fipronil Desulfinyl	24.5	Spike	P	0 - 32
2404643	Fipronil Sulfide	17.3	Spike	P	0 - 30
2404643	Fipronil Sulfone	11.7	Spike	P	0 - 33
2404643	Fluazifop-P-butyl	12.5	Spike	P	0 - 38
2404643	Fludioxonil	19.8	Spike	P	0 - 29
2404643	Flumioxazin	11.9	Spike	P	0 - 51
2404643	Flutolanil	36.8	Spike	F	0 - 25
2404643	Fluxapyroxad	10.3	Spike	P	0 - 45
2404643	Fonofos	39.4	Spike	F	0 - 27
2404643	Hexabromobenzene	16.8	Spike	P	0 - 30
2404643	Hexazinone	10.6	Spike	P	0 - 30
2404643	Imazalil	4.70	Spike	P	0 - 100
2404643	Iprodione	6.92	Spike	P	0 - 33
2404643	Loratadine	10.3	Spike	P	0 - 56
2404643	Malathion	21.9	Spike	P	0 - 37
2404643	Metalaxyl	0.793	Spike	P	0 - 40
2404643	Metolachlor	10.2	Spike	P	0 - 29
2404643	Metribuzin	0.817	Spike	P	0 - 45
2404643	Mevinphos	28.8	Spike	P	0 - 29
2404643	Molinate	2.08	Spike	P	0 - 33
2404643	Myclobutanil	5.86	Spike	P	0 - 26
2404643	Naled	14.1	Spike	P	0 - 37
2404643	Napropamide	25.2	Spike	P	0 - 44
2404643	Norflurazon	2.72	Spike	P	0 - 30
2404643	Octinoxate	11.5	Spike	P	0 - 45
2404643	Oxadiazon	10.7	Spike	P	0 - 28
2404643	Oxybenzone	17.0	Spike	P	0 - 46
2404643	Oxyfluorfen	19.1	Spike	P	0 - 28
2404643	Parathion Ethyl	1.84	Spike	P	0 - 31
2404643	Parathion Methyl	1.20	Spike	P	0 - 29
2404643	PBB-153	50.8	Spike	F	0 - 30
2404643	PBDE-47	17.7	Spike	P	0 - 36
2404643	PBDE-99	45.8	Spike	F	0 - 40
2404643	Pendimethalin	16.8	Spike	P	0 - 33
2404643	Pentabromotoluene	12.4	Spike	P	0 - 30
2404643	Phenytoin	20.9	Spike	P	0 - 100
2404643	Phorate	7.61	Spike	P	0 - 36
2404643	Prodiamine	11.5	Spike	P	0 - 71
2404643	Prometon	11.8	Spike	P	0 - 36
2404643	Prometryn	16.9	Spike	P	0 - 28
2404643	Pronamide	23.7	Spike	P	0 - 24
2404643	Propanil	16.9	Spike	P	0 - 28
2404643	Propargite	31.5	Spike	P	0 - 43
2404643	Propiconazole	10.2	Spike	P	0 - 33
2404643	Pyraflufen Ethyl	26.7	Spike	P	0 - 29
2404643	Pyridaben	11.3	Spike	P	0 - 30
2404643	Pyriproxyfen	49.7	Spike	P	0 - 79
2404643	Simazine	18.9	Spike	P	0 - 29
2404643	Stirophos	13.0	Spike	P	0 - 61
2404643	Sulfentrazone	10.8	Spike	P	0 - 33
2404643	Tebuconazole	12.4	Spike	P	0 - 69

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P429237

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404643	Terbufos	23.5	Spike	P	0 - 29
2404643	Terbutylazine	28.0	Spike	P	0 - 32
2404643	Tetradecachloro-m-terphenyl	18.8	Spike	P	0 - 30
2404643	Thiobencarb	12.2	Spike	P	0 - 26
2404643	Tri-o-cresyl Phosphate	18.1	Spike	P	0 - 33
2404643	Triadimefon	12.4	Spike	P	0 - 28
2404643	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	11.8	Spike	P	0 - 30
2404643	Tris(2-chloroethyl) phosphate (TCEP)	5.95	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P429278

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404645	Aldrin	4.87	Spike	P	0 - 41
2404645	Alpha-BHC	1.51	Spike	P	0 - 25
2404645	Alpha-Chlordane	2.34	Spike	P	0 - 33
2404645	Beta-BHC	32.1	Spike	P	0 - 36
2404645	Beta-Cyfluthrin	27.3	Spike	P	0 - 42
2404645	Bifenthrin	30.7	Spike	P	0 - 53
2404645	Chlorothalonil	66.5	Spike	P	0 - 71
2404645	Cis-Nonachlor	2.74	Spike	P	0 - 29
2404645	Cypermethrin	25.2	Spike	P	0 - 40
2404645	Dacthal	30.6	Spike	F	0 - 26
2404645	DDD-p,p'	4.80	Spike	P	0 - 39
2404645	DDE-p,p'	30.5	Spike	P	0 - 33
2404645	DDT-p,p'	12.9	Spike	P	0 - 40
2404645	Delta-BHC	10.8	Spike	P	0 - 37
2404645	Deltamethrin	29.4	Spike	P	0 - 100
2404645	Dichlobenil	18.5	Spike	P	0 - 40
2404645	Dicofol	6.41	Spike	P	0 - 31
2404645	Dieldrin	3.62	Spike	P	0 - 27
2404645	Endosulfan I	2.64	Spike	P	0 - 23
2404645	Endosulfan II	0.599	Spike	P	0 - 28
2404645	Endosulfan Sulfate	34.9	Spike	P	0 - 38
2404645	Endrin	26.6	Spike	P	0 - 63
2404645	Endrin Aldehyde	12.6	Spike	P	0 - 60
2404645	Endrin Ketone	12.8	Spike	P	0 - 37
2404645	Esfenvalerate	3.41	Spike	P	0 - 52
2404645	Ethalfuralin	7.17	Spike	P	0 - 23
2404645	Fenpropathrin	35.7	Spike	F	0 - 32
2404645	Gamma-BHC	14.4	Spike	P	0 - 17
2404645	Gamma-Chlordane	1.51	Spike	P	0 - 40
2404645	Heptachlor	12.9	Spike	P	0 - 29
2404645	Heptachlor Epoxide	32.8	Spike	F	0 - 25
2404645	Hexachlorobenzene	19.2	Spike	P	0 - 36
2404645	Kepone	68.4	Spike	P	0 - 93
2404645	Lambda-Cyhalothrin	21.7	Spike	P	0 - 55
2404645	Methoprene	9.48	Spike	P	0 - 53
2404645	Methoxychlor	12.4	Spike	P	0 - 29
2404645	MGK-264	6.94	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P429278

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404645	Mirex	21.0	Spike	P	0 - 46
2404645	Oxychlordane	20.0	Spike	P	0 - 29
2404645	Permethrin	34.6	Spike	P	0 - 44
2404645	Phenothrin	3.80	Spike	P	0 - 56
2404645	Piperonyl Butoxide	33.1	Spike	P	0 - 100
2404645	Prallethrin	0.176	Spike	P	0 - 42
2404645	Tau-Fluvalinate	23.8	Spike	P	0 - 54
2404645	Tetramethrin	28.8	Spike	P	0 - 51
2404645	Trans-Nonachlor	11.3	Spike	P	0 - 37
2404645	Triclosan Methyl	25.3	Spike	P	0 - 31
2404645	Trifluralin	7.37	Spike	P	0 - 30
2405764	PCB-1016	21.4	Spike	P	0 - 32
2405764	PCB-1260	17.4	Spike	P	0 - 31

Reference Method: EPA 8270E

Batch ID: P429600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2407708	Tris(1-chloro-2-propyl) phosphate (TCPP)	8.18	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P429278

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405764	Chlordane	7.50	Spike	P	0 - 25
2405764	Toxaphene	2.38	Spike	P	0 - 26

Reference Method: SM 2320 B-2011

Batch ID: P429747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405038	Total Alkalinity	1.31	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P429605

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404436	TDS	2.15	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P429695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404876	Fluoride	0.0	Spike	P	0 - 1.6

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P429459

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2404437	Organic Carbon	5.44	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2404594
Field Sample ID: G1SE0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	96.9	P	29 - 130
EPA 8270E	Decachlorobiphenyl	57.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	75.2	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	75.5	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	64.3	P	30 - 101
EPA 8276	PCNB	113	P	48 - 121

Lab Sample ID: 2404595
Field Sample ID: G1SE0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	86.7	P	20 - 200
EPA 8270E	Simazine-d10	106	P	62 - 142
EPA 8270E	Terbufos-d10	67.7	P	58 - 132
EPA 8270E	Terphenyl-d14	75.3	P	52 - 137
EPA 8270E	Terphenyl-d14	83.6	P	52 - 137

Lab Sample ID: 2404596
Field Sample ID: FB_05012023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	92.1	P	29 - 130
EPA 8270E	Decachlorobiphenyl	114	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	76.5	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	77.5	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	59.4	P	30 - 101
EPA 8276	PCNB	83.8	P	48 - 121

Lab Sample ID: 2404597
Field Sample ID: FB_05012023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	98.4	P	20 - 200
EPA 8270E	Simazine-d10	106	P	62 - 142
EPA 8270E	Terbufos-d10	92.6	P	58 - 132
EPA 8270E	Terphenyl-d14	93.9	P	52 - 137
EPA 8270E	Terphenyl-d14	110	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A118907

Included Lab Sample IDs: 2404517, 2404520, 2404523

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

Reference Method: DEP SOP: NU-094-1

Run ID: A118912

Included Lab Sample IDs: 2404511, 2404512, 2404515, 2404518, 2404521

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	97.5	P/P	90 - 110
Color (true)	98.7	100	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A118913

Included Lab Sample IDs: 2404511, 2404512, 2404515, 2404518, 2404521

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A118939

Included Lab Sample IDs: 2404513, 2404514, 2404516, 2404519, 2404522

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118946

Included Lab Sample IDs: 2404629

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	103	103	P/P	90 - 110
Antimony	101	102	P/P	90 - 110
Arsenic	101	99.8	P/P	90 - 110
Barium	99.5	99.3	P/P	90 - 110
Boron	104	103	P/P	90 - 110
Cadmium	101	101	P/P	90 - 110
Chromium	102	103	P/P	90 - 110
Cobalt	98.9	98.1	P/P	90 - 110
Copper	100	98.1	P/P	90 - 110
Lead	93.4	94.5	P/P	90 - 110
Manganese	99.8	99.7	P/P	90 - 110
Molybdenum	99.7	99.6	P/P	90 - 110
Nickel	99.5	99.0	P/P	90 - 110
Selenium	99.1	98.9	P/P	90 - 110
Silver	99.1	99.7	P/P	90 - 110
Thallium	102	103	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118953

Included Lab Sample IDs: 2404513, 2404514, 2404516

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118957

Included Lab Sample IDs: 2404519, 2404522

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	99.0	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A118965

Included Lab Sample IDs: 2404595, 2404597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	104		P	80 - 120
Avobenzone	108		P	80 - 120
Dechlorane 602	102		P	80 - 120
Dechlorane 603	103		P	80 - 120
Dechlorane Plus	94.3		P	80 - 120
Hexabromobenzene	104		P	80 - 120
Octinoxate	99.3		P	80 - 120
Oxybenzone	98.6		P	80 - 120
PBB-153	103		P	80 - 120
PBDE-47	100		P	80 - 120
PBDE-99	102		P	80 - 120
Pentabromotoluene	99.8		P	80 - 120
Tetradecachloro-m-terphenyl	105		P	80 - 120
Tri-o-cresyl Phosphate	101		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	95.8		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	90.2		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118966

Included Lab Sample IDs: 2404629

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	97.9	96.3	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A118972

Included Lab Sample IDs: 2404513, 2404514, 2404516, 2404519, 2404522

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A118973

Included Lab Sample IDs: 2404513, 2404514, 2404516, 2404519, 2404522

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A118973

Included Lab Sample IDs: 2404513, 2404514, 2404516, 2404519, 2404522

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A119022

Included Lab Sample IDs: 2404511, 2404512, 2404515, 2404518, 2404521

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A119031

Included Lab Sample IDs: 2404629

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	101	P/P	90 - 110
Iron	102	103	P/P	90 - 110
Magnesium	101	102	P/P	90 - 110
Potassium	101	102	P/P	90 - 110
Sodium	98.3	99.1	P/P	90 - 110
Strontium	101	102	P/P	90 - 110
Tin	99.6	100	P/P	90 - 110
Titanium	101	101	P/P	90 - 110
Vanadium	99.7	100	P/P	90 - 110
Zinc	98.7	98.1	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A119080

Included Lab Sample IDs: 2404511, 2404512, 2404515, 2404518, 2404521

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

Reference Method: EPA 8270E

Run ID: A119089

Included Lab Sample IDs: 2404594, 2404596

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	97.5		P	80 - 120
PCB-1260	108		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119098

Included Lab Sample IDs: 2404513, 2404514, 2404516, 2404519, 2404522

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	97.3	P/P	90 - 110
Kjeldahl Nitrogen	97.3	99.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A119101

Included Lab Sample IDs: 2404511, 2404512, 2404515, 2404518, 2404521

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.1	100	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A119118

Included Lab Sample IDs: 2404594, 2404596

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	91.0		P	80 - 120
Chlordane	95.4		P	80 - 120
Toxaphene	85.4		P	80 - 120
Toxaphene	91.1		P	80 - 120

Reference Method: EPA 8270E

Run ID: A119152

Included Lab Sample IDs: 2404595, 2404597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tris(1-chloro-2-propyl) phosphate (TCPP)	86.0		P	80 - 120

Reference Method: EPA 8270E

Run ID: A119165

Included Lab Sample IDs: 2404594, 2404596

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	108		P	80 - 120
Alpha-BHC	99.1		P	80 - 120
Alpha-Chlordane	94.5		P	80 - 120
Beta-BHC	95.0		P	80 - 120
Beta-Cyfluthrin	97.0		P	80 - 120
Bifenthrin	104		P	80 - 120
Chlorothalonil	94.1		P	80 - 120
Cis-Nonachlor	74.1*		F	80 - 120
Cypermethrin	103		P	80 - 120
Dacthal	81.4		P	80 - 120
DDD-p,p'	80.6		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	99.9		P	80 - 120
Delta-BHC	83.7		P	80 - 120
Deltamethrin	93.8		P	80 - 120
Dichlobenil	81.6		P	80 - 120
Dicofol	94.9		P	80 - 120
Dieldrin	114		P	80 - 120
Endosulfan I	96.8		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	89.7		P	80 - 120
Endrin	82.1		P	80 - 120
Endrin Aldehyde	110		P	80 - 120
Endrin Ketone	109		P	80 - 120
Esfenvalerate	97.7		P	80 - 120
Ethalfuralin	83.5		P	80 - 120
Fenpropathrin	86.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A119165

Included Lab Sample IDs: 2404594, 2404596

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Gamma-BHC	92.7		P	80 - 120
Gamma-Chlordane	97.2		P	80 - 120
Heptachlor	81.9		P	80 - 120
Heptachlor Epoxide	109		P	80 - 120
Hexachlorobenzene	108		P	80 - 120
Kepone	57.1*		F	80 - 120
Lambda-Cyhalothrin	90.5		P	80 - 120
Methoprene	95.8		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	86.2		P	80 - 120
Mirex	102		P	80 - 120
Oxychlordane	114		P	80 - 120
Permethrin	105		P	80 - 120
Phenothrin	94.3		P	80 - 120
Piperonyl Butoxide	101		P	80 - 120
Prallethrin	118		P	80 - 120
Tau-Fluvalinate	98.8		P	80 - 120
Tetramethrin	113		P	80 - 120
Trans-Nonachlor	104		P	80 - 120
Triclosan Methyl	119		P	80 - 120
Trifluralin	92.5		P	80 - 120

Reference Method: EPA 8270E

Run ID: A119169

Included Lab Sample IDs: 2404595, 2404597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	91.4		P	80 - 120
Alachlor	86.8		P	80 - 120
Ametryn	83.7		P	80 - 120
Atrazine	107		P	80 - 120
Atrazine Desethyl	96.2		P	80 - 120
Azinphos Methyl	93.1		P	80 - 120
Azoxystrobin	107		P	80 - 120
Bromacil	80.1		P	80 - 120
Butylate	101		P	80 - 120
Caffeine	102		P	80 - 120
Carbophenothion	84.7		P	80 - 120
Carfentrazone Ethyl	84.3		P	80 - 120
Chlorfenapyr	88.3		P	80 - 120
Chlorpyrifos Ethyl	91.3		P	80 - 120
Chlorpyrifos Methyl	87.7		P	80 - 120
Coumaphos	89.1		P	80 - 120
Cyanazine	91.9		P	80 - 120
Cyprodinil	81.0		P	80 - 120
Demeton	110		P	80 - 120
Diazinon	84.3		P	80 - 120
Difenoconazole	109		P	80 - 120
Dimethenamid	92.2		P	80 - 120
Dimethomorph	103		P	80 - 120
Disulfoton	95.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A119169

Included Lab Sample IDs: 2404595, 2404597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dithiopyr	82.3		P	80 - 120
EPTC	98.7		P	80 - 120
Ethion	88.9		P	80 - 120
Ethoprop	108		P	80 - 120
Etridiazole	85.2		P	80 - 120
Fenamiphos	86.3		P	80 - 120
Fenbuconazole	80.7		P	80 - 120
Fipronil	99.4		P	80 - 120
Fipronil Desulfinyl	81.0		P	80 - 120
Fipronil Sulfide	80.9		P	80 - 120
Fipronil Sulfone	82.0		P	80 - 120
Fluazifop-P-butyl	81.2		P	80 - 120
Fludioxonil	80.5		P	80 - 120
Flumioxazin	82.8		P	80 - 120
Flutolanil	97.0		P	80 - 120
Fluxapyroxad	84.2		P	80 - 120
Fonofos	118		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	92.8		P	80 - 120
Iprodione	90.1		P	80 - 120
Loratadine	87.4		P	80 - 120
Malathion	82.0		P	80 - 120
Metalaxyl	84.7		P	80 - 120
Metolachlor	88.8		P	80 - 120
Metribuzin	92.5		P	80 - 120
Mevinphos	107		P	80 - 120
Molinate	97.9		P	80 - 120
Myclobutanil	88.8		P	80 - 120
Naled	118		P	80 - 120
Napropamide	86.8		P	80 - 120
Norflurazon	86.9		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	80.7		P	80 - 120
Parathion Ethyl	106		P	80 - 120
Parathion Methyl	102		P	80 - 120
Pendimethalin	70.3*		F	80 - 120
Phenytol	88.7		P	80 - 120
Phorate	110		P	80 - 120
Prodiamine	75.1*		F	80 - 120
Prometon	96.7		P	80 - 120
Prometryn	81.3		P	80 - 120
Pronamide	101		P	80 - 120
Propanil	85.3		P	80 - 120
Propargite	95.2		P	80 - 120
Propiconazole	97.9		P	80 - 120
Pyraflufen Ethyl	88.6		P	80 - 120
Pyridaben	89.5		P	80 - 120
Pyriproxyfen	103		P	80 - 120
Simazine	99.7		P	80 - 120
Stirophos	87.2		P	80 - 120
Sulfentrazone	77.5*		F	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A119169

Included Lab Sample IDs: 2404595, 2404597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tebuconazole	105		P	80 - 120
Terbufos	102		P	80 - 120
Terbuthylazine	92.6		P	80 - 120
Thiobencarb	89.2		P	80 - 120
Triadimefon	86.7		P	80 - 120

* 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	MS
			LCS	SMP	MS		
DEP SOP: NU-094-1	Color (true)	96.1				5.26	
	Color (true)	99.4				1.99	
EPA 180.1 Rev. 2.0	Turbidity	99.6				13.3	
	Turbidity	99.4				17.9	
EPA 200.7 Rev. 4.4	Calcium	101	102	103			0.936
	Iron	103	106	105	106		1.20
	Magnesium	102	103	102	102		0.891
	Potassium	103	104	105	106		0.149
	Sodium	96.8	98.3	99.5			0.658
	Strontium	100	103	102	102		0.916
	Tin	100	103	102	99.8		0.886
	Titanium	98.9	104	103	103		1.46
	Vanadium	98.6	105	104	102		1.46
	Zinc	100	106	104	100		1.12
	Aluminum	100	99.1	100	102		0.896
	Antimony	101	100	102	102		1.56
	Arsenic	98.9	100	102	99.6		1.61
	Barium	102	101	102	102		0.897
EPA 200.8 Rev. 5.4	Beryllium	92.1	95.3	101	96.9		6.10
	Boron	105	102	105	109		2.26
	Cadmium	98.9	100	100	102		0.199
	Chromium	99.1	96.9	98.6	102		1.67
	Cobalt	96.8	98.8	97.3	96.5		2.43
	Copper	99.0	99.7	101	98.8		0.956
	Lead	93.2	94.4	95.5	95.0		1.16
	Manganese	100	99.2	100	102		0.798
	Molybdenum	98.1	99.5	100	101		0.473
	Nickel	98.0	97.5	98.8	99.4		1.34
	Selenium	97.9	99.2	100	97.8		1.11
	Silver	99.5	98.2	98.0	100		0.195
	Thallium	101	104	105	104		1.06
	Chloride	100	98.6	98.4		0.0860	
	Sulfate	100	99.1	98.7		0.310	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	100	102			1.32
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.2	95.1	98.1			2.04
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	104			0.0
EPA 365.1 Rev. 2.0	Total-P	104	105	105			0.0672
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	98.9	99.6			0.705
EPA 8270E	2-Ethylhexyl	70.6	72.0	109			41.0
	2,3,4,5-tetrabromobenzoate (EHTBB)						
	Acetochlor	73.4	83.9	110			26.6
	Alachlor	88.3	109	106			3.27
	Aldrin	37.1	47.8	50.2			4.87
	Alpha-BHC	98.5	94.3	95.7			1.51
	Alpha-Chlordane	59.6	73.2	71.5			2.34
	Ametryn	150	134	128			4.69
	Atrazine	101	87.1	103			10.5
	Atrazine Desethyl	123	107	109			2.01
	Avobenzone	99.8	98.0	165			50.7
	Azinphos Methyl	84.2	43.1	83.3			51.0
	Azoxystrobin	79.2	80.7	112			32.4
	Beta-BHC	83.5	141	102			32.1
	Beta-Cyfluthrin	55.6	113	85.6			27.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Bifenthrin	48.6	72.8	53.5			30.7
	Bromacil	110	84.2	110			26.4
	Butylate	70.9	64.6	56.4			13.6
	Caffeine	106	76.3	81.5			1.15
	Carbophenothion	107	92.3	115			21.7
	Carfentrazone Ethyl	114	90.8	117			24.9
	Chlorfenapyr	77.4	55.5	70.0			23.0
	Chlorothalonil	61.5	32.6	65.1			66.5
	Chlorpyrifos Ethyl	92.9	67.2	69.3			3.09
	Chlorpyrifos Methyl	90.8	57.9	62.9			8.24
	Cis-Nonachlor	69.3	51.3	52.7			2.74
	Coumaphos	48.1	107	119			10.9
	Cyanazine	127	109	130			17.1
	Cypermethrin	129	93.4	120			25.2
	Cyprodinil	92.5	65.8	86.1			26.7
	Dacthal	66.8	146	107			30.6
	DDD-p,p'	78.9	79.0	75.3			4.80
	DDE-p,p'	68.2	53.8	39.6			30.5
	DDT-p,p'	68.2	68.5	60.2			12.9
	Dechlorane 602	72.6	61.2	86.0			33.7
	Dechlorane 603	87.3	81.1	117			36.2
	Dechlorane Plus	102	104	89.5			14.7
	Delta-BHC	100	95.1	106			10.8
	Deltamethrin	64.1	58.7	43.7			29.4
	Demeton	82.5	81.2	86.6			6.44
	Diazinon	115	95.5	117			20.4
	Dichlobenil	116	96.7	80.3			18.5
	Dicofol	56.1	71.8	67.3			6.41
	Dieldrin	84.9	65.5	62.9			3.62
	Difenoconazole	38.1	106	89.3			17.4
	Dimethenamid	98.4	80.2	101			23.0
	Dimethomorph	151	158	148			6.31
	Disulfoton	117	105	122			15.1
	Dithiopyr	107	82.0	94.8			12.7
	Endosulfan I	80.4	66.9	65.2			2.64
	Endosulfan II	75.0	69.1	69.5			0.599
	Endosulfan Sulfate	61.5	125	87.8			34.9
	Endrin	82.5	93.1	71.3			26.6
	Endrin Aldehyde	48.2	68.9	78.2			12.6
	Endrin Ketone	87.8	80.1	70.5			12.8
	EPTC	68.6	59.5	53.1			11.3
	Esfenvalerate	61.6	50.8	49.1			3.41
	Ethalfuralin	70.0	66.9	71.9			7.17
	Ethion	81.7	87.8	106			18.8
	Ethoprop	100	88.0	97.9			10.6
	Etridiazole	84.6	80.7	72.9			10.2
	Fenamiphos	79.3	103	102			1.59
	Fenbuconazole	96.3	67.1	99.9			39.2
	Fenpropathrin	48.8	95.4	66.5			35.7
	Fipronil	101	85.4	81.7			4.49
	Fipronil Desulfinyl	98.9	74.5	98.3			24.5
	Fipronil Sulfide	104	77.5	93.3			17.3
	Fipronil Sulfone	92.2	80.3	91.9			11.7
	Fluazifop-P-butyl	69.4	77.3	68.1			12.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Fludioxonil	72.6	65.7	80.2			19.8
	Flumioxazin	65.5	80.4	90.6			11.9
	Flutolanil	84.5	75.1	109			36.8
	Fluxapyroxad	85.0	79.6	88.2			10.3
	Fonofos	103	69.0	46.3			39.4
	Gamma-BHC	114	111	95.7			14.4
	Gamma-Chlordane	52.0	69.8	70.8			1.51
	Heptachlor	78.8	69.6	61.1			12.9
	Heptachlor Epoxide	69.4	108	74.2			32.8
	Hexabromobenzene	101	104	123			16.8
	Hexachlorobenzene	77.1	85.6	70.6			19.2
	Hexazinone	94.8	87.4	97.1			10.6
	Imazalil	43.9	66.2	69.4			4.70
	Iprodione	63.2	108	101			6.92
	Kepone	126	111	54.4			68.4
	Lambda-Cyhalothrin	65.1	94.3	75.8			21.7
	Loratadine	59.9	114	127			10.3
	Malathion	76.9	167	208			21.9
	Metalaxyl	91.9	100	99.2			0.793
	Methoprene	45.3	62.0	56.4			9.48
	Methoxychlor	79.5	53.7	60.8			12.4
	Metolachlor	100	81.1	89.8			10.2
	Metribuzin	103	102	101			0.817
	Mevinphos	95.3	81.3	109			28.8
	MGK-264	92.2	53.3	49.7			6.94
	Mirex	60.6	48.4	39.2			21.0
	Molinate	67.8	59.3	60.6			2.08
	Myclobutanil	93.1	91.5	97.0			5.86
	Naled	42.2	31.6	36.4			14.1
	Napropamide	76.2	57.8	74.5			25.2
	Norflurazon	82.0	93.1	95.7			2.72
	Octinoxate	104	101	114			11.5
	Oxadiazon	86.5					10.7
	Oxybenzone	106	104	123			17.0
	Oxychlordane	71.2	61.7	75.4			20.0
	Oxyfluorfen	94.4	85.3	103			19.1
	Parathion Ethyl	102	98.9	97.1			1.84
	Parathion Methyl	97.4	104	105			1.20
	PBB-153	83.3	77.3	130			50.8
	PBDE-47	91.8	84.8	101			17.7
	PBDE-99	68.5	57.2	91.1			45.8
	PCB-1016	79.5	64.4	79.8			21.4
	PCB-1260	114	73.4	87.4			17.4
	Pendimethalin	110	96.5	114			16.8
	Pentabromotoluene	96.2	97.7	111			12.4
	Permethrin	67.9	53.1	75.4			34.6
	Phenothrin	50.3	74.8	77.7			3.80
	Phenytoin	63.0	40.0	56.4			20.9
	Phorate	115	109	118			7.61
	Piperonyl Butoxide	87.3	61.6	86.1			33.1
	Prallethrin	57.1	73.3	73.2			0.176
	Prodiamine	76.9	60.0	67.3			11.5
	Prometon	117	97.5	110			11.8
	Prometryn	88.9	81.4	96.4			16.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8270E	Pronamide	96.4	76.2	96.7		23.7
	Propanil	108	92.0	109		16.9
	Propargite	90.7	42.4	63.2		31.5
	Propiconazole	61.3	67.7	75.0		10.2
	Pyraflufen Ethyl	72.4	62.0	47.4		26.7
	Pyridaben	36.7	62.7	70.2		11.3
	Pyriproxyfen	86.9	49.0	87.3		49.7
	Simazine	89.6	80.4	97.2		18.9
	Stirophos	85.4	72.7	82.8		13.0
	Sulfentrazone	66.5	57.9	64.6		10.8
	Tau-Fluvalinate	53.8	50.0	39.3		23.8
	Tebuconazole	76.9	57.1	64.6		12.4
	Terbufos	103	85.7	109		23.5
	Terbuthylazine	89.2	71.8	95.2		28.0
	Tetradecachloro-m-terphenyl	140	151	183		18.8
	Tetramethrin	74.2	117	87.8		28.8
	Thiobencarb	114	92.3	104		12.2
	Trans-Nonachlor	46.1	72.4	64.7		11.3
	Tri-o-cresyl Phosphate	98.7	96.1	115		18.1
	Triadimefon	104	96.6	109		12.4
	Triclosan Methyl	73.5	65.4	84.4		25.3
	Trifluralin	69.4	61.5	66.2		7.37
	Tris(1-chloro-2-propyl) phosphate (TCPP)	102	94.4	87.0		8.18
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	93.7	89.2	101		11.8
	Tris(2-chloroethyl) phosphate (TCEP)	105	101	107		5.95
EPA 8276	Chlordane	78.7	76.6	83.0		7.50
	Toxaphene	90.8	93.8	96.0		2.38
SM 2320 B-2011	Total Alkalinity	99.0			1.31	
SM 2540 C-2015	TDS	95.4			2.15	
SM 2540 D-2015	TSS	91.7				
SM 4500-F- C-2011	Fluoride	98.0	101	101		0.0
SM 5310 B-2011	Organic Carbon	95.0	95.8	103		5.44

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2404511, 2404512, 2404515, 2404518, 2404521
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2404511, 2404512, 2404515, 2404518, 2404521
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2404629
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2404629
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2404511, 2404512, 2404515, 2404518, 2404521
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2404511, 2404512, 2404515, 2404518, 2404521
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2404513, 2404514, 2404516, 2404519, 2404522
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2404513, 2404514, 2404516, 2404519, 2404522

Reference Method Descriptions

Method	Description	Associated Samples
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2404513, 2404514, 2404516, 2404519, 2404522
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2404513, 2404514, 2404516, 2404519, 2404522
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2404517, 2404520, 2404523
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2404595, 2404597
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2404594, 2404596
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2404595, 2404597
EPA 8270E	PCBs in water matrices by GC/MS/MS	2404594, 2404596
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2404594, 2404596
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2404511, 2404512, 2404515, 2404518, 2404521
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2404629
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2404511, 2404512, 2404515, 2404518, 2404521
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2404511, 2404512, 2404515, 2404518, 2404521
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2404511, 2404512, 2404515, 2404518, 2404521
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2404513, 2404514, 2404516, 2404519, 2404522

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	05/02/2023			05/02/2023 14:59	Alexis Price	2404511, 2404512
	05/02/2023			05/02/2023 15:00	Alexis Price	2404515
	05/02/2023			05/02/2023 15:01	Alexis Price	2404518
	05/02/2023			05/02/2023 15:04	Alexis Price	2404521
EPA 180.1 Rev. 2.0	05/02/2023			05/02/2023 13:59	Khloe J Berg	2404511
	05/02/2023			05/02/2023 14:00	Khloe J Berg	2404512
	05/02/2023			05/02/2023 14:02	Khloe J Berg	2404515
	05/02/2023			05/02/2023 14:07	Khloe J Berg	2404518
	05/02/2023			05/02/2023 14:09	Khloe J Berg	2404521
EPA 200.7 Rev. 4.4	05/02/2023	05/03/2023 11:30	George D Taylor	05/09/2023 02:42	McKinley C Carter	2404629
EPA 200.8 Rev. 5.4	05/02/2023	05/03/2023 11:30	George D Taylor	05/03/2023 21:14	Emily M Philpot	2404629
	05/02/2023	05/03/2023 11:30	George D Taylor	05/04/2023 18:11	Emily M Philpot	2404629
EPA 300.0 Rev. 2.1	05/02/2023			05/05/2023 21:15	Anna M. Plaviak	2404511
	05/02/2023			05/05/2023 21:31	Anna M. Plaviak	2404512
	05/02/2023			05/05/2023 21:46	Anna M. Plaviak	2404515
	05/02/2023			05/05/2023 22:01	Anna M. Plaviak	2404518
EPA 350.1 Rev. 2.0	05/02/2023			05/05/2023 22:16	Anna M. Plaviak	2404521
	05/02/2023			05/03/2023 13:52	Khloe J Berg	2404513
	05/02/2023			05/03/2023 13:53	Khloe J Berg	2404514
	05/02/2023			05/03/2023 13:55	Khloe J Berg	2404516
EPA 351.2 Rev. 2.0	05/02/2023			05/03/2023 13:56	Khloe J Berg	2404519
	05/02/2023			05/03/2023 13:57	Khloe J Berg	2404522
	05/02/2023	05/10/2023 12:02	Dana G. Hughes	05/11/2023 09:54	Ping Hua	2404513
	05/02/2023	05/10/2023 12:02	Dana G. Hughes	05/11/2023 09:56	Ping Hua	2404514
EPA 353.2 Rev. 2.0	05/02/2023	05/10/2023 12:02	Dana G. Hughes	05/11/2023 10:01	Ping Hua	2404516
	05/02/2023	05/10/2023 12:02	Dana G. Hughes	05/11/2023 10:02	Ping Hua	2404519
	05/02/2023	05/10/2023 12:02	Dana G. Hughes	05/11/2023 10:04	Ping Hua	2404522
	05/02/2023			05/05/2023 10:44	Beverly Y. Sanders	2404513
EPA 365.1 Rev. 2.0	05/02/2023			05/05/2023 10:46	Beverly Y. Sanders	2404514
	05/02/2023			05/05/2023 10:47	Beverly Y. Sanders	2404516
	05/02/2023			05/05/2023 10:48	Beverly Y. Sanders	2404519
	05/02/2023			05/05/2023 10:49	Beverly Y. Sanders	2404522
EPA 365.1 Rev. 2.0 dissolved	05/02/2023	05/03/2023 12:11	Adam P Silver	05/04/2023 10:09	James L Waggeberby	2404513
	05/02/2023	05/03/2023 12:11	Adam P Silver	05/04/2023 10:10	James L Waggeberby	2404514
	05/02/2023	05/03/2023 12:11	Adam P Silver	05/04/2023 10:11	James L Waggeberby	2404516
	05/02/2023	05/03/2023 12:11	Adam P Silver	05/04/2023 14:12	James L Waggeberby	2404522
EPA 365.1 Rev. 2.0 dissolved	05/02/2023	05/03/2023 12:11	Adam P Silver	05/04/2023 14:15	James L Waggeberby	2404519
	05/02/2023			05/02/2023 13:57	Elise M. Gillis	2404517
	05/02/2023			05/02/2023 13:58	Elise M. Gillis	2404520
	05/02/2023			05/02/2023 13:59	Elise M. Gillis	2404523

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270E	05/02/2023	05/03/2023 08:00	Fe-Val Siddell	05/04/2023 17:57	Vandana T. Nagar	2404595
	05/02/2023	05/03/2023 08:00	Fe-Val Siddell	05/04/2023 17:58	Arthur Maknenko	2404595
	05/02/2023	05/03/2023 08:00	Fe-Val Siddell	05/04/2023 18:24	Arthur Maknenko	2404597
	05/02/2023	05/03/2023 08:00	Fe-Val Siddell	05/04/2023 18:26	Vandana T. Nagar	2404597
	05/02/2023	05/08/2023 09:00	Fe-Val Siddell	05/11/2023 00:05	Julie Wi	2404594
	05/02/2023	05/08/2023 09:00	Fe-Val Siddell	05/11/2023 00:35	Julie Wi	2404596
	05/02/2023	05/08/2023 09:00	Fe-Val Siddell	05/12/2023 22:39	Michael Poppell	2404594
	05/02/2023	05/08/2023 09:00	Fe-Val Siddell	05/12/2023 23:08	Michael Poppell	2404596
	05/02/2023	05/11/2023 08:00	Fe-Val Siddell	05/12/2023 21:57	Arthur Maknenko	2404595
	05/02/2023	05/11/2023 08:00	Fe-Val Siddell	05/12/2023 22:23	Arthur Maknenko	2404597
EPA 8276	05/02/2023	05/08/2023 09:00	Fe-Val Siddell	05/11/2023 07:26	Arthur Maknenko	2404594
	05/02/2023	05/08/2023 09:00	Fe-Val Siddell	05/11/2023 09:17	Arthur Maknenko	2404596
SM 2320 B-2011	05/02/2023			05/11/2023 06:55	Dale L. Simmons	2404511
	05/02/2023			05/11/2023 07:06	Dale L. Simmons	2404512
	05/02/2023			05/11/2023 07:18	Dale L. Simmons	2404515
	05/02/2023			05/11/2023 07:29	Dale L. Simmons	2404518
	05/02/2023			05/11/2023 07:35	Dale L. Simmons	2404521
SM 2340 B-2011	05/02/2023			05/09/2023 02:42	McKinley C Carter	2404629
SM 2540 C-2015	05/02/2023			05/03/2023 14:10	Yijie Li	2404511, 2404512, 2404515, 2404518, 2404521
SM 2540 D-2015	05/02/2023			05/03/2023 14:10	Yijie Li	2404511, 2404512, 2404515, 2404518, 2404521
SM 4500-F- C-2011	05/02/2023			05/09/2023 21:44	Dale L. Simmons	2404511
	05/02/2023			05/09/2023 21:49	Dale L. Simmons	2404512
	05/02/2023			05/09/2023 21:54	Dale L. Simmons	2404515
	05/02/2023			05/09/2023 21:59	Dale L. Simmons	2404518
	05/02/2023			05/09/2023 22:05	Dale L. Simmons	2404521
SM 5310 B-2011	05/02/2023			05/04/2023 19:43	Elise M. Gillis	2404513
	05/02/2023			05/04/2023 20:26	Elise M. Gillis	2404514
	05/02/2023			05/04/2023 20:41	Elise M. Gillis	2404516
	05/02/2023			05/04/2023 20:55	Elise M. Gillis	2404519
	05/02/2023			05/04/2023 21:09	Elise M. Gillis	2404522