

Chemical Analysis Report

SO-DIST-2023-08-15-02

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

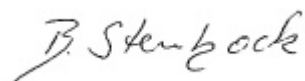
Event Description: **2023 SMP: Lebella-Ella-Ella**
Request ID: **RQ-2023-08-07-61**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: Monica Jaeger

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

Date Certified: 14-SEP-2023 15:18



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: CHAPARRALSLOUGHATSR29

Collection Date/Time: 08/14/2023 09:45

Field ID: G3SD0224

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430838	DEP SOP: NU-094-1	Color (true)	740		PCU	P433863	
	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P433875	
	EPA 300.0 Rev. 2.1	Chloride	9.5		mg Cl/L	P434071	
		Sulfate	0.21	I	mg SO4/L	P434074	
	SM 2320 B-2011	Total Alkalinity	4.8		mg CaCO3/L	P434014	
	SM 2540 C-2015	TDS	138		mg/L	P434487	
	SM 2540 D-2015	TSS	3	I	mg/L	P434267	
	SM 4500-F- C-2011	Fluoride	0.060	I	mg F/L	P434017	
2430839	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P434171	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P434227	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P434474	
	EPA 365.1 Rev. 2.0	Total-P	0.041		mg P/L	P433905	
	SM 5310 B-2011	Organic Carbon	48		mg C/L	P433955	
2430886	EPA 200.7 Rev. 4.4	Calcium	6.55		mg/L	P433931	
		Iron	1.65E+03		ug/L	P433931	
		Magnesium	2.07		mg/L	P433931	
		Potassium	0.30	U	mg/L	P433931	
		Sodium	6.2		mg/L	P433931	
		Strontium	32.0		ug/L	P433931	
		Tin	3.0	U	ug/L	P433931	
		Titanium	1.3	I	ug/L	P433931	
	EPA 200.8 Rev. 5.4	Vanadium	2.0	U	ug/L	P433931	
		Zinc	5.0	U	ug/L	P433931	
		Aluminum	198		ug/L	P434124	
		Antimony	0.050	U	ug/L	P434124	
		Arsenic	1.39		ug/L	P434124	
		Barium	6.95		ug/L	P434124	
		Beryllium	0.020	I	ug/L	P434124	
		Boron	20.2		ug/L	P434124	
		Cadmium	0.020	U	ug/L	P434124	
		Chromium	0.64	I	ug/L	P434124	
		Cobalt	0.270		ug/L	P434124	
		Copper	0.40	U	ug/L	P434124	
		Lead	0.44		ug/L	P434124	
		Manganese	17.7		ug/L	P434124	
		Molybdenum	0.15	U	ug/L	P434124	
		Nickel	0.50	U	ug/L	P434124	
		Selenium	0.20	U	ug/L	P434124	
		Silver	0.010	U	ug/L	P434124	
		Thallium	0.10	U	ug/L	P434124	
	SM 2340 B-2011	Hardness	24.9		mg/L	P433931	

Field ID: G3SD0224

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium and sodium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: BEE BRANCH AT CR78

Collection Date/Time: 08/14/2023 10:15

Field ID: G3SD0226

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430882	EPA 8321B	Aldicarb	0.020	U	ug/L	P434040	
		Aldicarb Sulfone	0.0020	U	ug/L	P434040	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P434040	MS
		Carbaryl	0.0020	U	ug/L	P434040	
		Carbofuran	0.0020	U	ug/L	P434040	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P434040	
		Methiocarb	0.0020	U	ug/L	P434040	
		Methomyl	0.0020	U	ug/L	P434040	
		Oxamyl	0.0020	U	ug/L	P434040	
		Propoxur	0.0020	U	ug/L	P434040	
2430883		2,4-D	0.0020	U	ug/L	P433848	
		Acesulfame K	0.10	U	ug/L	P433790	
		2,4,5-T	0.0040	U	ug/L	P433848	
		AMPA	0.15	I	ug/L	P433790	
		Acetaminophen	0.0080	U	ug/L	P433848	
		Acetamiprid	0.0020	U	ug/L	P433848	
		Endothall	0.25	U	ug/L	P433790	
		Glufosinate	0.10	U	ug/L	P433790	
		Glyphosate	0.10	U	ug/L	P433790	
		Afidopyropen	0.0020	U	ug/L	P433848	
		Bentazon	8.0E-04	U	ug/L	P433848	
		Sucralose	0.024	I	ug/L	P433790	
		Benzovindiflupyr	0.0020	U	ug/L	P433848	
		Carbamazepine	8.0E-04	U	ug/L	P433848	
		Clothianidin	0.0020	U	ug/L	P433848	
		Dinotefuran	0.0020	U	ug/L	P433848	
		Diuron	0.0020	U	ug/L	P433848	
		Fenuron	0.032	U	ug/L	P433848	
		Fluridone	8.0E-04	U	ug/L	P433848	
		Imazapyr	0.0085	I	ug/L	P433848	
		Hydrocodone	0.0020	U	ug/L	P433848	
		Ibuprofen	0.20	U	ug/L	P433848	
		Imidacloprid	0.0067	I	ug/L	P433848	
		Linuron	0.0040	U	ug/L	P433848	
		Mandestrobin	0.0020	U	ug/L	P433848	
		MCP	0.0040	U	ug/L	P433848	
		Naproxen	0.0080	U	ug/L	P433848	
		Primidone	0.0040	U	ug/L	P433848	
		Pyraclostrobin	0.0020	U	ug/L	P433848	
		Silvex	0.0040	U	ug/L	P433848	MS
		Thiamethoxam	0.0024	I	ug/L	P433848	
		Tolfenpyrad	0.0020	U	ug/L	P433848	
		Triclopyr	0.0040	U	ug/L	P433848	
2430884	EPA 8270E	Aldrin	0.66	UQ	ng/L	P434403	

Field ID: G3SD0226

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430884	EPA 8270E	Alpha-BHC	0.10	UQ	ng/L	P434403	
		Alpha-Chlordane	0.20	UQ	ng/L	P434403	
		PCB-1016	2.0	U	ng/L	P433861	
		Beta-BHC	0.10	UQ	ng/L	P434403	
		PCB-1221	2.0	U	ng/L	P433861	
		Beta-Cyfluthrin	1.3	UQ	ng/L	P434403	
		PCB-1232	2.0	U	ng/L	P433861	
		Bifenthrin	0.51	UQ	ng/L	P434403	
		PCB-1242	2.0	U	ng/L	P433861	
		PCB-1248	2.0	U	ng/L	P433861	
		Chlorothalonil	3.7	UQ	ng/L	P434403	
		PCB-1254	2.0	U	ng/L	P433861	
		Cis-Nonachlor	0.20	UQ	ng/L	P434403	
		PCB-1260	2.0	U	ng/L	P433861	
		Cypermethrin	1.5	UQ	ng/L	P434403	
		Dacthal	0.15	UQ	ng/L	P434403	
		DDD-p,p'	0.26	UQ	ng/L	P434403	
		DDE-p,p'	0.20	UQ	ng/L	P434403	
		DDT-p,p'	0.82	UQ	ng/L	P434403	
		Delta-BHC	0.41	UQ	ng/L	P434403	
		Deltamethrin	1.3	UQ	ng/L	P434403	
		Dichlobenil	0.26	UQ	ng/L	P434403	
		Dicofol	1.3	UQ	ng/L	P434403	
		Dieldrin	0.41	UQ	ng/L	P434403	
		Endosulfan I	0.41	UQ	ng/L	P434403	
		Endosulfan II	0.92	UQ	ng/L	P434403	
		Endosulfan Sulfate	0.31	UQ	ng/L	P434403	
		Endrin	0.92	UQ	ng/L	P434403	
		Endrin Aldehyde	0.77	UQJ	ng/L	P434403	LCS
		Endrin Ketone	0.41	UQ	ng/L	P434403	
		Esfenvalerate	0.77	UQ	ng/L	P434403	
		Ethalfuralin	0.15	UQ	ng/L	P434403	
		Fenpropathrin	0.26	UQ	ng/L	P434403	
		Gamma-BHC	0.13	UQJ	ng/L	P434403	CCV
		Gamma-Chlordane	0.20	UQ	ng/L	P434403	
		Heptachlor	0.20	UQ	ng/L	P434403	
		Heptachlor Epoxide	0.26	UQ	ng/L	P434403	
		Hexachlorobenzene**	1.0	UQ	ng/L	P434403	
		Kepone	14	UQJ	ng/L	P434403	CCV
		Lambda-Cyhalothrin	0.77	UQ	ng/L	P434403	
		Methoprene	0.77	UQ	ng/L	P434403	
		Methoxychlor	0.31	UQ	ng/L	P434403	
		MGK-264	0.20	UQ	ng/L	P434403	
		Mirex	0.36	UQ	ng/L	P434403	
		Oxychlordane	0.31	UQ	ng/L	P434403	

Field ID: G3SD0226

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430884	EPA 8270E	Permethrin	1.6	UQ	ng/L	P434403	
		Phenothrin	0.92	UQ	ng/L	P434403	
		Piperonyl Butoxide	0.15	UQ	ng/L	P434403	
		Prallethrin	2.0	UQ	ng/L	P434403	
		Tau-Fluvalinate	0.26	UQ	ng/L	P434403	
		Tetramethrin	0.77	UQ	ng/L	P434403	
		Trans-Nonachlor	0.20	UQ	ng/L	P434403	
		Triclosan Methyl	0.15	UQ	ng/L	P434403	
		Trifluralin	0.20	UQ	ng/L	P434403	RPD
		Chlordane	2.0	U	ng/L	P433861	
2430885	EPA 8276	Toxaphene	15	U	ng/L	P433861	
	EPA 8270E	Oxybenzone**	10	U	ng/L	P433851	
		Acetochlor	0.21	U	ng/L	P433851	
		Octinoxate**	150	U	ng/L	P433851	
		Alachlor	0.41	U	ng/L	P433851	
		Avobenzone**	100	U	ng/L	P433851	
		Ametryn	1.1	U	ng/L	P433851	
		Atrazine	0.21	U	ng/L	P433851	
		PBDE-47**	4.1	U	ng/L	P433851	
		Atrazine Desethyl	1.3	U	ng/L	P433851	
		PBDE-99**	5.1	U	ng/L	P433851	
		Azinphos Methyl	3.1	U	ng/L	P433851	
		Tri-o-cresyl Phosphate**	6.2	U	ng/L	P433851	
		Azoxystrobin	0.41	U	ng/L	P433851	
		Bromacil	12		ng/L	P433851	
		2-Ethylhexyl	12	U	ng/L	P433851	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.21	U	ng/L	P433851	
		Dechlorane Plus**	31	U	ng/L	P433851	
		Caffeine**	7.7	U	ng/L	P433851	
		Dechlorane 602**	5.1	UJ	ng/L	P433851	LCS
		Carbophenothion	0.51	U	ng/L	P433851	
		Dechlorane 603**	4.1	U	ng/L	P433851	
		Carfentrazone Ethyl	0.15	U	ng/L	P433851	
		Hexabromobenzene**	6.2	U	ng/L	P433851	
		Chlorfenapyr	0.31	U	ng/L	P433851	
		PBB-153**	8.2	U	ng/L	P433851	
		Chlorpyrifos Ethyl	0.31	U	ng/L	P433851	
		Pentabromotoluene**	3.1	U	ng/L	P433851	
		Chlorpyrifos Methyl	0.10	U	ng/L	P433851	
		Tris(2-chloroethyl) phosphate (TCEP)**	72	U	ng/L	P433851	
		Coumaphos	1.1	U	ng/L	P433851	
		Tris(1-chloro-2-propyl) phosphate (TCPP)**	15	U	ng/L	P433851	
		Cyanazine	5.1	U	ng/L	P433851	
		Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)**	2.6	U	ng/L	P433851	

Field ID: G3SD0226

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430885	EPA 8270E	Cyprodinil	0.21	U	ng/L	P433851	
		Tetradecachloro-m-terphenyl**	7.7	U	ng/L	P433851	
		Demeton	3.6	U	ng/L	P433851	
		Diazinon	0.13	U	ng/L	P433851	
		Difenoconazole	0.62	U	ng/L	P433851	
		Dimethenamid	0.10	U	ng/L	P433851	
		Dimethomorph	0.31	UJ	ng/L	P433851	LCS, MS
		Disulfoton	0.62	U	ng/L	P433851	
		Dithiopyr	1.0	U	ng/L	P433851	
		EPTC	0.51	U	ng/L	P433851	
		Ethion	0.31	U	ng/L	P433851	
		Ethoprop	0.13	U	ng/L	P433851	
		Etridiazole	0.10	U	ng/L	P433851	
		Fenamiphos	0.46	U	ng/L	P433851	
		Fenbuconazole	0.51	U	ng/L	P433851	
		Fipronil	0.21	U	ng/L	P433851	
		Fipronil DesulfinyI**	0.10	U	ng/L	P433851	
		Fipronil Sulfide	0.10	U	ng/L	P433851	
		Fipronil Sulfone	0.10	U	ng/L	P433851	
		Fluazifop-P-butyl	0.10	U	ng/L	P433851	
		Fludioxonil	0.10	U	ng/L	P433851	
		Flumioxazin	3.1	U	ng/L	P433851	
		Flutolanil	0.53		ng/L	P433851	
		Fluxapyroxad	0.26	U	ng/L	P433851	
		Fonofos	0.15	U	ng/L	P433851	
		Hexazinone	81		ng/L	P433851	
		Imazalil	0.67	U	ng/L	P433851	
		Iprodione	0.51	U	ng/L	P433851	
		Loratadine**	0.31	U	ng/L	P433851	
		Malathion	0.36	U	ng/L	P433851	MS, RPD
		Metalaxyl	1.6	I	ng/L	P433851	
		Metolachlor	0.77	U	ng/L	P433851	
		Metribuzin	0.41	U	ng/L	P433851	
		Mevinphos	1.0	U	ng/L	P433851	
		Molinate	0.26	U	ng/L	P433851	
		Myclobutanil	0.36	U	ng/L	P433851	
		Naled	2.6	U	ng/L	P433851	
		Napropamide	0.72	U	ng/L	P433851	
		Norflurazon	19		ng/L	P433851	
		Oxadiazon	0.36	U	ng/L	P433851	
		Oxyfluorfen	0.21	U	ng/L	P433851	
		Parathion Ethyl	0.15	U	ng/L	P433851	
		Parathion Methyl	0.21	U	ng/L	P433851	
		Pendimethalin	0.77	U	ng/L	P433851	
		Phenytain**	5.4	U	ng/L	P433851	

Field ID: G3SD0226

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430885	EPA 8270E	Phorate	0.26	U	ng/L	P433851	
		Prodiamine	0.21	U	ng/L	P433851	
		Prometon	3.1	U	ng/L	P433851	
		Prometryn	0.36	U	ng/L	P433851	
		Pronamide	0.10	U	ng/L	P433851	
		Propanil	0.10	U	ng/L	P433851	
		Propargite	0.82	U	ng/L	P433851	
		Propiconazole	0.62	U	ng/L	P433851	
		Pyraflufen Ethyl	0.31	U	ng/L	P433851	
		Pyridaben	1.4	U	ng/L	P433851	
		Pyriproxyfen	0.26	U	ng/L	P433851	
		Simazine	0.26	U	ng/L	P433851	
		Stirophos	0.41	U	ng/L	P433851	RPD
		Sulfentrazone	1.4	U	ng/L	P433851	
		Tebuconazole	1.4	U	ng/L	P433851	
		Terbufos	0.21	U	ng/L	P433851	
		Terbutylazine	0.21	U	ng/L	P433851	
		Thiobencarb	0.51	U	ng/L	P433851	RPD
		Triadimefon	0.15	U	ng/L	P433851	
2430887	EPA 200.7 Rev. 4.4	Calcium	20.5		mg/L	P433931	
		Iron	1.41E+03		ug/L	P433931	
		Magnesium	4.05		mg/L	P433931	
		Potassium	2.1		mg/L	P433931	
		Sodium	14.8		mg/L	P433931	
		Strontium	266		ug/L	P433931	
		Tin	3.0	U	ug/L	P433931	
		Titanium	1.1	I	ug/L	P433931	
		Vanadium	2.0	U	ug/L	P433931	
		Zinc	5.0	U	ug/L	P433931	
	EPA 200.8 Rev. 5.4	Aluminum	195		ug/L	P434124	
		Antimony	0.075	I	ug/L	P434124	
		Arsenic	1.40		ug/L	P434124	
		Barium	14.9		ug/L	P434124	
		Beryllium	0.034	I	ug/L	P434124	
		Boron	27.6		ug/L	P434124	
		Cadmium	0.020	U	ug/L	P434124	
		Chromium	0.93	I	ug/L	P434124	
		Cobalt	0.346		ug/L	P434124	
		Copper	0.56	I	ug/L	P434124	
		Lead	0.45		ug/L	P434124	
		Manganese	36.6		ug/L	P434124	
		Molybdenum	0.31	I	ug/L	P434124	
		Nickel	0.84	I	ug/L	P434124	
		Selenium	0.20	U	ug/L	P434124	
		Silver	0.010	U	ug/L	P434124	

Field ID: G3SD0226

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430887	EPA 200.8 Rev. 5.4	Thallium	0.10	U	ug/L	P434124	
	SM 2340 B-2011	Hardness	68.0		mg/L	P433931	

Ref. Method and Comment:

EPA 8321B: MS accuracy for some analytes could not be assessed due to a high concentration of some parameters in the spiked sample.

EPA 8270E: Sample expired for preparation due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.

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

EPA 8270E: MS accuracy for bromacil and norflurazon not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium and sodium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: JACKS BRANCH

Collection Date/Time: 08/14/2023 10:45

Field ID: G3SD0176

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430834	DEP SOP: NU-094-1	Color (true)	260		PCU	P433863	
	EPA 180.1 Rev. 2.0	Turbidity	3.6		NTU	P433875	
	EPA 300.0 Rev. 2.1	Chloride	20		mg Cl/L	P434071	
		Sulfate	5.0		mg SO4/L	P434074	
	SM 2320 B-2011	Total Alkalinity	85		mg CaCO3/L	P434014	
	SM 2540 C-2015	TDS	196		mg/L	P434487	
	SM 2540 D-2015	TSS	5	I	mg/L	P434267	
2430836	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P434017	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P434171	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P434227	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.10		mg N/L	P434473	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P433905	
2430880	SM 5310 B-2011	Organic Carbon	27		mg C/L	P433955	
	EPA 8321B	2,4-D	0.0020	U	ug/L	P433848	
		Acesulfame K	0.10	U	ug/L	P433790	
		2,4,5-T	0.0040	U	ug/L	P433848	
		AMPA	0.30	I	ug/L	P433790	
		Acetaminophen	0.0080	U	ug/L	P433848	
		Acetamiprid	0.0020	U	ug/L	P433848	
		Endothall	0.25	U	ug/L	P433790	
		Glufosinate	0.10	U	ug/L	P433790	
		Glyphosate	0.15	I	ug/L	P433790	
		Afidopyropen	0.0020	U	ug/L	P433848	
		Bentazon	8.0E-04	U	ug/L	P433848	
		Sucralose	0.014	I	ug/L	P433790	
		Benzovindiflupyr	0.0020	U	ug/L	P433848	
		Carbamazepine	8.0E-04	U	ug/L	P433848	
		Clothianidin	0.0020	U	ug/L	P433848	
		Dinotefuran	0.027		ug/L	P433848	
		Diuron	0.0020	U	ug/L	P433848	
		Fenuron	0.032	U	ug/L	P433848	
		Fluridone	8.0E-04	U	ug/L	P433848	
		Imazapyr	0.0040	U	ug/L	P433848	
		Hydrocodone	0.0020	U	ug/L	P433848	
		Ibuprofen	0.20	U	ug/L	P433848	
		Imidacloprid	0.0020	U	ug/L	P433848	
		Linuron	0.0040	U	ug/L	P433848	
		Mandestrobin	0.0020	U	ug/L	P433848	
		MCP	0.0040	U	ug/L	P433848	
		Naproxen	0.0080	U	ug/L	P433848	
		Primidone	0.0040	U	ug/L	P433848	
		Pyraclostrobin	0.0020	U	ug/L	P433848	
		Silvex	0.0040	U	ug/L	P433848	MS
		Thiamethoxam	0.0020	U	ug/L	P433848	

Field ID: G3SD0176

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430880	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P433848	
		Triclopyr	0.0040	U	ug/L	P433848	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to a high concentration of some parameters in the spiked sample.

Sample Location: FORT SIMMONS BRANCH

Collection Date/Time: 08/14/2023 11:05

Field ID: G3SD0177

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430835	DEP SOP: NU-094-1	Color (true)	89		PCU	P433863	
	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P433875	
	EPA 300.0 Rev. 2.1	Chloride	54		mg Cl/L	P434071	
		Sulfate	49		mg SO4/L	P434074	
	SM 2320 B-2011	Total Alkalinity	270		mg CaCO3/L	P434014	
	SM 2540 C-2015	TDS	492		mg/L	P434487	
	SM 2540 D-2015	TSS	6	I	mg/L	P434267	
2430837	SM 4500-F- C-2011	Fluoride	0.57		mg F/L	P434017	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.034		mg N/L	P434171	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P434227	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.077		mg N/L	P434473	
	EPA 365.1 Rev. 2.0	Total-P	0.34		mg P/L	P433905	
2430881	EPA 8321B	SM 5310 B-2011	Organic Carbon	15	mg C/L	P433955	
		2,4-D	0.0020	U	ug/L	P433848	
		Acesulfame K	0.10	U	ug/L	P433790	
		2,4,5-T	0.0040	U	ug/L	P433848	
		AMPA	0.91		ug/L	P433790	
		Acetaminophen	0.0080	U	ug/L	P433848	
		Acetamiprid	0.0020	U	ug/L	P433848	
		Endothall	0.25	U	ug/L	P433790	
		Glufosinate	0.10	U	ug/L	P433790	
		Glyphosate	9.9		ug/L	P433790	
		Afidopyropen	0.0020	U	ug/L	P433848	
		Bentazon	0.0046		ug/L	P433848	
		Sucralose	0.072		ug/L	P433790	
		Benzovindiflupyr	0.0020	U	ug/L	P433848	
		Carbamazepine	8.0E-04	U	ug/L	P433848	
		Clothianidin	0.0037	I	ug/L	P433848	
		Dinotefuran	0.0020	U	ug/L	P433848	
		Diuron	0.0020	U	ug/L	P433848	
		Fenuron	0.032	U	ug/L	P433848	
		Fluridone	9.3E-04	I	ug/L	P433848	
		Imazapyr	0.088		ug/L	P433848	
		Hydrocodone	0.0020	U	ug/L	P433848	
		Ibuprofen	0.20	U	ug/L	P433848	
		Imidacloprid	0.0020	U	ug/L	P433848	
		Linuron	0.0040	U	ug/L	P433848	
		Mandestrobin	0.0020	U	ug/L	P433848	
		MCPP	0.0040	U	ug/L	P433848	
		Naproxen	0.0080	U	ug/L	P433848	
		Primidone	0.0040	U	ug/L	P433848	
		Pyraclostrobin	0.0020	U	ug/L	P433848	
		Silvex	0.0040	U	ug/L	P433848	MS
		Thiamethoxam	0.0020	U	ug/L	P433848	

Field ID: G3SD0177

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2430881	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P433848	
		Triclopyr	0.0040	U	ug/L	P433848	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to a high concentration of some parameters in the spiked sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P433863

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433875

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P433931

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: P434124

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434071

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434074

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434171

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434227

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434473

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434474

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433905

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

Reference Method: EPA 8270E
Batch ID: P433851

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
Acetochlor	0.20	U	ng/L
Acetochlor	0.20	U	ng/L
Alachlor	0.40	U	ng/L
Alachlor	0.40	U	ng/L
Ametryn	1.1	U	ng/L
Ametryn	1.1	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine	0.20	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Atrazine Desethyl	1.3	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	3.0	U	ng/L
Azinphos Methyl	3.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P433851

Component	Result	Code	Units
Azoxystrobin	0.40	U	ng/L
Azoxystrobin	0.40	U	ng/L
Bromacil	0.60	U	ng/L
Bromacil	0.60	U	ng/L
Butylate	0.20	U	ng/L
Butylate	0.20	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	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
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.30	U	ng/L
Dimethomorph	0.30	U	ng/L
Disulfoton	0.60	U	ng/L
Disulfoton	0.60	U	ng/L
Dithiopyr	1.0	U	ng/L
Dithiopyr	1.0	U	ng/L
EPTC	0.50	U	ng/L
EPTC	0.50	U	ng/L
Ethion	0.30	U	ng/L
Ethion	0.30	U	ng/L
Ethoprop	0.12	U	ng/L
Ethoprop	0.12	U	ng/L
Etridiazole	0.10	U	ng/L
Etridiazole	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P433851

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P433851

Component	Result	Code	Units
Norflurazon	1.0	U	ng/L
Norflurazon	1.0	U	ng/L
Octinoxate	150	U	ng/L
Octinoxate	150	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
Prodiatone	0.20	U	ng/L
Prodiatone	0.20	U	ng/L
Prometon	3.0	U	ng/L
Prometon	3.0	U	ng/L
Prometryn	0.35	U	ng/L
Prometryn	0.35	U	ng/L
Pronamide	0.10	U	ng/L
Pronamide	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propanil	0.10	U	ng/L
Propargite	0.80	U	ng/L
Propargite	0.80	U	ng/L
Propiconazole	0.60	U	ng/L
Propiconazole	0.60	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyraflufen Ethyl	0.30	U	ng/L
Pyridaben	1.4	U	ng/L
Pyridaben	1.4	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Pyriproxyfen	0.25	U	ng/L
Simazine	0.25	U	ng/L
Simazine	0.25	U	ng/L
Stirophos	0.40	U	ng/L
Stirophos	0.40	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P433851

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

Reference Method: EPA 8270E

Batch ID: P433861

Component	Result	Code	Units
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

Reference Method: EPA 8270E

Batch ID: P434403

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P434403

Component	Result	Code	Units
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
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'	0.80	U	ng/L
DDT-p,p'	0.80	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	0.90	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin	0.90	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P434403

Component	Result	Code	Units
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Kepone	14	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
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 8276
Batch ID: P433861

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

Reference Method: EPA 8321B
Batch ID: P433790

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P433790

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B

Batch ID: P433848

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

Reference Method: EPA 8321B

Batch ID: P434040

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P434040

Component	Result	Code	Units
Propoxur	0.0020	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P434014

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

Reference Method: SM 2540 C-2015
Batch ID: P434487

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P434267

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P434017

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P433955

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: P433863

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433875

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	99.3		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P433931

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	100		P	85 - 115
Iron	101		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	99.8		P	85 - 115
Sodium	107		P	85 - 115
Strontium	102		P	85 - 115
Tin	98.6		P	85 - 115
Titanium	99.7		P	85 - 115
Vanadium	100		P	85 - 115
Zinc	97.2		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P434124

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.3		P	85 - 115
Antimony	98.5		P	85 - 115
Arsenic	93.5		P	85 - 115
Barium	100		P	85 - 115
Beryllium	91.7		P	85 - 115
Boron	100		P	85 - 115
Cadmium	97.0		P	85 - 115
Chromium	92.5		P	85 - 115
Cobalt	90.0		P	85 - 115
Copper	93.8		P	85 - 115
Lead	95.4		P	85 - 115
Manganese	97.3		P	85 - 115
Molybdenum	94.2		P	85 - 115
Nickel	89.8		P	85 - 115
Selenium	96.2		P	85 - 115
Silver	108		P	85 - 115
Thallium	96.3		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434071

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434074

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434171

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434227

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434473

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434474

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433905

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

Reference Method: EPA 8270E
Batch ID: P433851

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	46.5		P	42 - 162
Acetochlor	83.3		P	69 - 123
Alachlor	89.5		P	65 - 118
Ametryn	123		P	58 - 141
Atrazine	86.8		P	73 - 118
Atrazine Desethyl	48.4		P	32 - 125
Avobenzone	134		P	40 - 203
Azinphos Methyl	138		P	36 - 197
Azoxystrobin	113		P	58 - 226
Bromacil	95.0		P	48 - 120
Butylate	55.9		P	27 - 85.0
Caffeine	88.4		P	40 - 137
Carbophenothion	101		P	54 - 132
Carfentrazone Ethyl	105		P	60 - 142
Chlorfenapyr	85.8		P	53 - 117
Chlorpyrifos Ethyl	92.2		P	59 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P433851

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	102		P	66 - 119
Coumaphos	141		P	11 - 234
Cyanazine	117		P	61 - 248
Cyprodinil	99.9		P	50 - 147
Dechlorane 602	44.2		F	50 - 150
Dechlorane 603	113		P	50 - 150
Dechlorane Plus	84.0		P	47 - 182
Demeton	74.8		P	30 - 138
Diazinon	96.1		P	67 - 126
Difenoconazole	106		P	38 - 205
Dimethenamid	84.8		P	57 - 111
Dimethomorph	225		F	16 - 212
Disulfoton	92.5		P	46 - 126
Dithiopyr	87.4		P	62 - 115
EPTC	56.7		P	28 - 80.0
Ethion	42.2		P	24 - 122
Ethoprop	93.1		P	62 - 113
Etridiazole	58.2		P	28 - 92.0
Fenamiphos	83.4		P	57 - 128
Fenbuconazole	99.5		P	52 - 155
Fipronil	93.2		P	63 - 130
Fipronil Desulfinyl	85.2		P	61 - 130
Fipronil Sulfide	94.5		P	56 - 117
Fipronil Sulfone	92.5		P	52 - 118
Fluazifop-P-butyl	107		P	61 - 128
Fludioxonil	78.2		P	59 - 129
Flumioxazin	60.2		P	30 - 250
Flutolanil	83.7		P	53 - 127
Fluxapyroxad	68.6		P	42 - 132
Fonofos	91.3		P	61 - 110
Hexabromobenzene	102		P	50 - 150
Hexazinone	82.1		P	46 - 139
Imazalil	98.2		P	40 - 139
Iprodione	91.8		P	40 - 146
Loratadine	182		P	10 - 224
Malathion	105		P	61 - 135
Metaxyl	78.7		P	58 - 121
Metolachlor	111		P	64 - 118
Metribuzin	94.5		P	45 - 245
Mevinphos	95.3		P	49 - 118
Molinate	57.1		P	42 - 92.0
Myclobutanil	87.5		P	55 - 127
Naled	54.1		P	10 - 114
Napropamide	75.3		P	39 - 121
Norflurazon	83.8		P	55 - 129
Octinoxate	114		P	26 - 166
Oxadiazon	79.9		P	54 - 115
Oxybenzone	113		P	49 - 135
Oxyfluorfen	107		P	64 - 139
Parathion Ethyl	88.8		P	70 - 111
Parathion Methyl	106		P	76 - 136
PBB-153	78.5		P	50 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P433851

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PBDE-47	76.0		P	41 - 148
PBDE-99	58.3		P	38 - 147
Pendimethalin	106		P	52 - 118
Pentabromotoluene	99.7		P	50 - 150
Phenytoin	55.7		P	10 - 162
Phorate	101		P	40 - 122
Prodiamine	43.2		P	26 - 141
Prometon	104		P	54 - 122
Prometryn	116		P	61 - 128
Pronamide	90.8		P	72 - 121
Propanil	100		P	45 - 144
Propargite	54.2		P	10 - 199
Propiconazole	83.7		P	56 - 127
Pyraflufen Ethyl	107		P	56 - 140
Pyridaben	123		P	26 - 211
Pyriproxyfen	63.6		P	33 - 194
Simazine	91.6		P	67 - 121
Stirophos	46.8		P	20 - 142
Sulfentrazone	80.5		P	21 - 144
Tebuconazole	39.5		P	10 - 122
Terbufos	101		P	60 - 129
Terbutylazine	81.1		P	69 - 113
Tetradecachloro-m-terphenyl	139		P	70 - 200
Thiobencarb	87.0		P	51 - 120
Tri-o-cresyl Phosphate	119		P	49 - 150
Triadimefon	81.7		P	56 - 114
Tris(1-chloro-2-propyl) phosphate (TCPP)	123		P	50 - 150
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	103		P	50 - 150
Tris(2-chloroethyl) phosphate (TCEP)	105		P	70 - 180

Reference Method: EPA 8270E

Batch ID: P433861

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
PCB-1016	64.9		P	45 - 107
PCB-1260	62.8		P	40 - 118

Reference Method: EPA 8270E

Batch ID: P434403

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	42.0		P	30 - 96.0
Alpha-BHC	78.9		P	70 - 109
Alpha-Chlordane	63.3		P	45 - 107
Beta-BHC	67.7		P	64 - 138
Beta-Cyfluthrin	61.5		P	17 - 141
Bifenthrin	52.6		P	10 - 113
Chlorothalonil	59.1		P	26 - 180
Cis-Nonachlor	61.2		P	37 - 102
Cypermethrin	81.8		P	20 - 133
Dacthal	77.4		P	69 - 114
DDD-p,p'	61.4		P	42 - 105

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P434403

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
DDE-p,p'	58.9		P	42 - 106
DDT-p,p'	50.5		P	42 - 107
Delta-BHC	78.4		P	67 - 144
Deltamethrin	81.1		P	15 - 149
Dichlobenil	55.7		P	46 - 117
Dicofol	52.5		P	34 - 114
Dieldrin	60.2		P	50 - 108
Endosulfan I	62.1		P	55 - 104
Endosulfan II	65.3		P	51 - 111
Endosulfan Sulfate	76.3		P	56 - 121
Endrin	65.1		P	10 - 106
Endrin Aldehyde	7.56		F	34 - 114
Endrin Ketone	104		P	63 - 177
Esfenvalerate	72.2		P	29 - 143
Ethalfuralin	57.2		P	46 - 96.0
Fenpropathrin	69.7		P	28 - 115
Gamma-BHC	114		P	65 - 121
Gamma-Chlordane	64.1		P	39 - 103
Heptachlor	65.1		P	39 - 94.0
Heptachlor Epoxide	62.2		P	54 - 104
Hexachlorobenzene	39.4		P	36 - 100
Kepone	67.2		P	10 - 225
Lambda-Cyhalothrin	63.0		P	10 - 135
Methoprene	52.6		P	10 - 109
Methoxychlor	62.7		P	52 - 112
MGK-264	81.5		P	44 - 117
Mirex	52.0		P	20 - 90.0
Oxychlordane	60.8		P	44 - 102
Permethrin	65.5		P	18 - 135
Phenothrin	50.9		P	10 - 102
Piperonyl Butoxide	95.2		P	28 - 156
Prallethrin	67.7		P	28 - 113
Tau-Fluvalinate	69.5		P	10 - 123
Tetramethrin	76.5		P	18 - 158
Trans-Nonachlor	66.1		P	39 - 104
Triclosan Methyl	59.3		P	54 - 108
Trifluralin	53.2		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P433861

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	83.7		P	52 - 117
Toxaphene	85.4		P	44 - 125

Reference Method: EPA 8321B
Batch ID: P433790

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	105		P	40 - 150
AMPA	117		P	40 - 150
Endothall	109		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P433790

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glufosinate	103		P	40 - 150
Glyphosate	99.6		P	40 - 150
Sucralose	96.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P433848

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	98.3		P	30 - 160
2,4,5-T	103		P	30 - 160
Acetaminophen	82.2		P	30 - 160
Acetamiprid	90.5		P	30 - 160
Afidopyropen	30.6		P	30 - 160
Bentazon	115		P	30 - 160
Benzovindiflupyr	93.4		P	30 - 160
Carbamazepine	100		P	30 - 160
Clothianidin	89.0		P	30 - 160
Dinotefuran	107		P	30 - 160
Diuron	92.7		P	30 - 160
Fenuron	87.3		P	30 - 160
Fluridone	95.5		P	30 - 160
Hydrocodone	92.6		P	30 - 160
Ibuprofen	66.5		P	30 - 160
Imazapyr	98.9		P	30 - 160
Imidacloprid	98.0		P	30 - 160
Linuron	82.6		P	30 - 160
Mandestrobin	96.7		P	30 - 160
MCPP	105		P	30 - 160
Naproxen	81.7		P	30 - 160
Primidone	88.0		P	30 - 160
Pyraclostrobin	94.1		P	30 - 160
Silvex	109		P	30 - 160
Thiamethoxam	104		P	30 - 160
Tolfenpyrad	64.2		P	30 - 160
Triclopyr	95.4		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P434040

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	66.0		P	30 - 160
Aldicarb	71.5		P	30 - 160
Aldicarb Sulfone	86.6		P	30 - 160
Aldicarb Sulfoxide	88.6		P	30 - 160
Carbaryl	73.6		P	30 - 160
Carbofuran	83.6		P	30 - 160
Methiocarb	63.8		P	30 - 160
Methomyl	81.8		P	30 - 160
Oxamyl	81.2		P	30 - 160
Propoxur	71.5		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-2011
Batch ID: P434014

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.1		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P434487

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	93.3		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P434267

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	91.4		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P434017

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

Reference Method: SM 5310 B-2011
Batch ID: P433955

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.4		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P433931

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430634	Calcium	99.6		P	80 - 120
2430634	Iron	101	103	P/P	80 - 120
2430634	Magnesium	99.3	102	P/P	80 - 120
2430634	Potassium	99.9	103	P/P	80 - 120
2430634	Sodium	105		P	80 - 120
2430634	Strontium	99.9	103	P/P	80 - 120
2430634	Tin	97.9	98.6	P/P	80 - 120
2430634	Titanium	99.0	99.9	P/P	80 - 120
2430634	Vanadium	100	101	P/P	80 - 120
2430634	Zinc	98.0	98.9	P/P	80 - 120
2430791	Iron	104		P	80 - 120
2430791	Magnesium	104		P	80 - 120
2430791	Potassium	99.8		P	80 - 120
2430791	Strontium	104		P	80 - 120
2430791	Tin	104		P	80 - 120
2430791	Titanium	103		P	80 - 120
2430791	Vanadium	105		P	80 - 120
2430791	Zinc	105		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P434124

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432078	Aluminum	97.1	98.2	P/P	80 - 120
2432078	Antimony	98.6	97.5	P/P	80 - 120
2432078	Arsenic	94.0	93.6	P/P	80 - 120
2432078	Barium	99.1	99.0	P/P	80 - 120
2432078	Beryllium	92.2	91.6	P/P	80 - 120
2432078	Boron	101	101	P/P	80 - 120
2432078	Cadmium	97.1	95.9	P/P	80 - 120
2432078	Chromium	93.1	93.3	P/P	80 - 120
2432078	Cobalt	89.4	89.4	P/P	80 - 120
2432078	Copper	95.4	95.6	P/P	80 - 120
2432078	Lead	96.1	97.1	P/P	80 - 120
2432078	Manganese	96.5	95.8	P/P	80 - 120
2432078	Molybdenum	94.8	94.6	P/P	80 - 120
2432078	Nickel	89.7	89.2	P/P	80 - 120
2432078	Selenium	97.3	94.1	P/P	80 - 120
2432078	Silver	106	105	P/P	80 - 120
2432078	Thallium	98.3	99.2	P/P	80 - 120
2432154	Aluminum	98.2		P	80 - 120
2432154	Antimony	97.7		P	80 - 120
2432154	Arsenic	92.2		P	80 - 120
2432154	Barium	98.1		P	80 - 120
2432154	Beryllium	89.2		P	80 - 120
2432154	Boron	102		P	80 - 120
2432154	Cadmium	97.0		P	80 - 120
2432154	Chromium	91.9		P	80 - 120
2432154	Cobalt	91.1		P	80 - 120
2432154	Copper	92.1		P	80 - 120
2432154	Lead	95.0		P	80 - 120
2432154	Manganese	95.6		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P434124

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2432154	Molybdenum	94.5		P	80 - 120
2432154	Nickel	92.9		P	80 - 120
2432154	Selenium	93.7		P	80 - 120
2432154	Silver	105		P	80 - 120
2432154	Thallium	98.5		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434071

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430783	Chloride	98.3		P	90 - 110
2430996	Chloride	98.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434074

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430783	Sulfate	97.2		P	90 - 110
2430996	Sulfate	95.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430785	Ammonia-N	99.8	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434227

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430836	Kjeldahl Nitrogen	101	109	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430818	NO2NO3-N	98.0	97.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434474

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430900	NO2NO3-N	97.0	96.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430900	Total-P	105	106	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P433851

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431068	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.9	71.5	P/P	26 - 165
2431068	Acetochlor	97.6	81.4	P/P	67 - 124
2431068	Alachlor	89.1	76.6	P/P	60 - 120
2431068	Ametryn	139	124	P/P	54 - 216
2431068	Atrazine	91.4	85.9	P/P	66 - 128
2431068	Atrazine Desethyl	72.8	66.1	P/P	15 - 122
2431068	Avobenzone	102	99.8	P/P	37 - 178
2431068	Azinphos Methyl	145	151	P/P	40 - 292
2431068	Azoxystrobin	110	123	P/P	35 - 220
2431068	Butylate	60.4	60.2	P/P	20 - 83.0
2431068	Caffeine	124	101	P/P	10 - 194
2431068	Carbophenothion	93.4	96.4	P/P	57 - 127
2431068	Carfentrazone Ethyl	98.7	98.7	P/P	51 - 141
2431068	Chlorfenapyr	82.4	80.2	P/P	46 - 111
2431068	Chlorpyrifos Ethyl	81.1	78.8	P/P	52 - 120
2431068	Chlorpyrifos Methyl	91.7	99.3	P/P	63 - 119
2431068	Coumaphos	177	148	P/P	10 - 228
2431068	Cyanazine	128	120	P/P	59 - 241
2431068	Cyprodinil	67.8	93.1	P/P	47 - 146
2431068	Dechlorane 602	59.3	53.1	P/P	50 - 150
2431068	Dechlorane 603	114	106	P/P	50 - 150
2431068	Dechlorane Plus	93.7	84.8	P/P	50 - 150
2431068	Demeton	80.7	79.7	P/P	40 - 136
2431068	Diazinon	113	92.3	P/P	69 - 132
2431068	Difenoconazole	129	134	P/P	57 - 258
2431068	Dimethenamid	81.9	86.4	P/P	54 - 110
2431068	Dimethomorph	203	213	P/F	28 - 210
2431068	Disulfoton	111	96.1	P/P	43 - 133
2431068	Dithiopyr	97.7	87.9	P/P	39 - 116
2431068	EPTC	61.0	53.5	P/P	20 - 78.0
2431068	Ethion	72.9	48.7	P/P	17 - 119
2431068	Ethoprop	95.2	91.5	P/P	66 - 120
2431068	Etridiazole	75.5	59.5	P/P	28 - 96.0
2431068	Fenamiphos	110	95.4	P/P	41 - 126
2431068	Fenbuconazole	86.5	95.8	P/P	42 - 169
2431068	Fipronil	100	93.9	P/P	61 - 132
2431068	Fipronil Desulfinyl	85.8	86.9	P/P	56 - 132
2431068	Fipronil Sulfide	98.3	93.0	P/P	48 - 119
2431068	Fipronil Sulfone	98.9	93.3	P/P	42 - 131
2431068	Fluazifop-P-butyl	109	104	P/P	53 - 131
2431068	Fludioxonil	71.0	76.5	P/P	56 - 127
2431068	Flumioxazin	143	123	P/P	19 - 300
2431068	Flutolanil	56.6	52.0	P/P	41 - 127
2431068	Fluxapyroxad	100	84.4	P/P	42 - 172
2431068	Fonofos	90.0	87.5	P/P	59 - 113
2431068	Hexabromobenzene	115	104	P/P	50 - 150
2431068	Hexazinone	83.5	88.3	P/P	66 - 122
2431068	Imazalil	101	89.3	P/P	21 - 283
2431068	Iprodione	73.5	82.9	P/P	43 - 150
2431068	Loratadine	149	160	P/P	23 - 201
2431068	Malathion	22.3	107	F/P	58 - 136
2431068	Metalaxyl	91.3	75.5	P/P	55 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P433851

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431068	Metolachlor	83.9	101	P/P	57 - 121
2431068	Metribuzin	85.9	79.8	P/P	58 - 294
2431068	Mevinphos	99.4	100	P/P	50 - 126
2431068	Molinate	58.1	59.3	P/P	42 - 93.0
2431068	Myclobutanil	91.1	84.2	P/P	55 - 125
2431068	Naled	57.5	57.4	P/P	18 - 200
2431068	Napropamide	76.5	76.5	P/P	39 - 110
2431068	Octinoxate	115	109	P/P	21 - 159
2431068	Oxadiazon	81.3	75.1	P/P	43 - 112
2431068	Oxybenzone	104	107	P/P	41 - 142
2431068	Oxyfluorfen	122	98.0	P/P	64 - 153
2431068	Parathion Ethyl	93.2	96.5	P/P	69 - 114
2431068	Parathion Methyl	97.3	106	P/P	79 - 139
2431068	PBB-153	110	94.7	P/P	50 - 150
2431068	PBDE-47	93.4	80.5	P/P	27 - 144
2431068	PBDE-99	81.7	70.8	P/P	18 - 150
2431068	Pendimethalin	86.7	97.0	P/P	50 - 139
2431068	Pentabromotoluene	101	95.9	P/P	50 - 150
2431068	Phenytoin	52.2	54.5	P/P	10 - 146
2431068	Phorate	97.7	101	P/P	54 - 161
2431068	Prodiamine	30.6	39.1	P/P	30 - 161
2431068	Prometon	80.0	91.7	P/P	45 - 134
2431068	Prometryn	103	111	P/P	45 - 137
2431068	Pronamide	102	100	P/P	65 - 133
2431068	Propanil	118	95.8	P/P	49 - 142
2431068	Propargite	75.4	64.1	P/P	10 - 203
2431068	Propiconazole	72.9	82.4	P/P	38 - 146
2431068	Pyraflufen Ethyl	104	94.4	P/P	34 - 153
2431068	Pyridaben	137	121	P/P	12 - 192
2431068	Pyriproxyfen	102	79.9	P/P	33 - 180
2431068	Simazine	87.2	94.9	P/P	51 - 157
2431068	Stiropfos	25.6	57.0	P/P	10 - 128
2431068	Sulfentrazone	88.1	86.7	P/P	53 - 186
2431068	Tebuconazole	54.4	43.9	P/P	10 - 133
2431068	Terbufos	128	98.1	P/P	65 - 139
2431068	Terbuthylazine	90.0	79.3	P/P	66 - 117
2431068	Tetradecachloro-m-terphenyl	92.9	89.3	P/P	70 - 200
2431068	Thiobencarb	56.2	87.4	P/P	51 - 119
2431068	Tri-o-cresyl Phosphate	116	112	P/P	31 - 144
2431068	Triadimefon	88.5	80.0	P/P	48 - 119
2431068	Tris(1-chloro-2-propyl) phosphate (TCPP)	89.5	89.2	P/P	50 - 150
2431068	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	107	107	P/P	50 - 150
2431068	Tris(2-chloroethyl) phosphate (TCEP)	114	110	P/P	70 - 180

Reference Method: EPA 8270E

Batch ID: P433861

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431296	PCB-1016	75.7	81.2	P/P	45 - 107
2431296	PCB-1260	63.4	65.8	P/P	40 - 112

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P434403

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2433693	Aldrin	40.0	40.4	P/P	24 - 81.0
2433693	Alpha-BHC	72.9	80.7	P/P	65 - 110
2433693	Alpha-Chlordane	69.6	69.8	P/P	43 - 119
2433693	Beta-BHC	90.0	89.9	P/P	54 - 165
2433693	Beta-Cyfluthrin	37.3	53.4	P/P	27 - 165
2433693	Bifenthrin	30.4	47.2	P/P	17 - 117
2433693	Chlorothalonil	77.8	87.3	P/P	10 - 255
2433693	Cis-Nonachlor	60.2	61.8	P/P	34 - 98.0
2433693	Cypermethrin	37.9	55.9	P/P	25 - 143
2433693	Dacthal	70.3	58.8	P/P	55 - 139
2433693	DDD-p,p'	52.3	53.2	P/P	30 - 109
2433693	DDE-p,p'	52.6	52.6	P/P	35 - 106
2433693	DDT-p,p'	45.5	53.9	P/P	41 - 101
2433693	Delta-BHC	87.6	109	P/P	58 - 165
2433693	Deltamethrin	32.5	55.5	P/P	10 - 194
2433693	Dichlobenil	63.1	66.3	P/P	22 - 114
2433693	Dicofol	54.2	55.7	P/P	17 - 133
2433693	Dieldrin	52.9	54.4	P/P	45 - 129
2433693	Endosulfan I	69.7	56.9	P/P	49 - 104
2433693	Endosulfan II	70.8	76.3	P/P	37 - 117
2433693	Endosulfan Sulfate	60.9	59.8	P/P	38 - 128
2433693	Endrin	50.3	47.4	P/P	35 - 116
2433693	Endrin Aldehyde	54.8	30.4	P/P	19 - 108
2433693	Endrin Ketone	65.3	58.3	P/P	44 - 134
2433693	Esfenvalerate	81.5	101	P/P	27 - 176
2433693	Ethalfuralin	57.0	59.5	P/P	49 - 100
2433693	Fenpropathrin	40.0	64.8	P/P	34 - 117
2433693	Gamma-BHC	89.8	87.8	P/P	59 - 129
2433693	Gamma-Chlordane	64.6	54.1	P/P	33 - 107
2433693	Heptachlor	46.7	42.0	P/P	37 - 94.0
2433693	Heptachlor Epoxide	78.3	79.7	P/P	38 - 118
2433693	Hexachlorobenzene	52.1	52.0	P/P	35 - 97.0
2433693	Kepone	76.9	62.4	P/P	10 - 221
2433693	Lambda-Cyhalothrin	37.4	51.6	P/P	23 - 190
2433693	Methoprene	66.0	66.0	P/P	21 - 109
2433693	Methoxychlor	58.1	65.0	P/P	46 - 118
2433693	MGK-264	96.2	102	P/P	39 - 122
2433693	Mirex	34.7	42.8	P/P	25 - 90.0
2433693	Oxychlordane	64.6	55.1	P/P	42 - 100
2433693	Permethrin	49.3	51.6	P/P	33 - 181
2433693	Phenothrin	32.9	40.1	P/P	12 - 125
2433693	Piperonyl Butoxide	60.4	85.9	P/P	10 - 178
2433693	Prallethrin	76.8	69.1	P/P	24 - 122
2433693	Tau-Fluvalinate	33.9	50.4	P/P	13 - 151
2433693	Tetramethrin	70.6	76.3	P/P	16 - 172
2433693	Trans-Nonachlor	66.0	64.4	P/P	39 - 100
2433693	Triclosan Methyl	58.8	53.8	P/P	43 - 110
2433693	Trifluralin	51.3	64.5	P/P	45 - 94.0

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276

Batch ID: P433861

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431296	Chlordane	62.2	68.9	P/P	43 - 123
2431296	Toxaphene	73.3	76.2	P/P	27 - 156

Reference Method: EPA 8321B

Batch ID: P433790

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430880	Acesulfame K	128	132	P/P	40 - 150
2430880	AMPA	62.5	60.4	P/P	40 - 150
2430880	Endothall	135	138	P/P	40 - 150
2430880	Glufosinate	83.0	84.0	P/P	40 - 150
2430880	Glyphosate	93.9	101	P/P	40 - 150
2430880	Sucralose	97.4	94.4	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P433848

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430532	2,4,5-T	135	121	P/P	30 - 160
2430532	Acetaminophen	120	102	P/P	30 - 160
2430532	Acetamiprid	60.2	79.6	P/P	30 - 160
2430532	Afidopyropen	36.8	36.2	P/P	30 - 160
2430532	Benzovindiflupyr	84.9	84.4	P/P	30 - 160
2430532	Carbamazepine	72.0	81.9	P/P	30 - 160
2430532	Dinotefuran	92.4	103	P/P	30 - 160
2430532	Diuron	64.1	66.6	P/P	30 - 160
2430532	Fenuron	62.1	68.8	P/P	30 - 160
2430532	Fluridone	79.2	79.6	P/P	30 - 160
2430532	Hydrocodone	69.1	77.2	P/P	30 - 160
2430532	Ibuprofen	41.9	40.4	P/P	30 - 160
2430532	Imidacloprid	129	129	P/P	30 - 160
2430532	Linuron	58.4	60.9	P/P	30 - 160
2430532	Mandestrobin	85.6	85.8	P/P	30 - 160
2430532	MCCP	147	136	P/P	30 - 160
2430532	Naproxen	88.3	97.7	P/P	30 - 160
2430532	Primidone	98.6	96.9	P/P	30 - 160
2430532	Pyraclostrobin	92.4	91.4	P/P	30 - 160
2430532	Silvex	165	135	F/P	30 - 160
2430532	Thiamethoxam	94.8	104	P/P	30 - 160
2430532	Tolfenpyrad	64.3	61.9	P/P	30 - 160
2430532	Triclopyr	126	118	P/P	30 - 160

Reference Method: EPA 8321B

Batch ID: P434040

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431334	3-Hydroxycarbofuran	47.6	52.4	P/P	30 - 160
2431334	Aldicarb	50.0	56.2	P/P	30 - 160
2431334	Aldicarb Sulfone	68.0	75.2	P/P	30 - 160
2431334	Aldicarb Sulfoxide	25.8	30.0	F/P	30 - 160
2431334	Carbaryl	53.5	56.7	P/P	30 - 160
2431334	Carbofuran	57.6	62.6	P/P	30 - 160

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P434040

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2431334	Methiocarb	48.7	56.6	P/P	30 - 160
2431334	Methomyl	60.8	69.1	P/P	30 - 160
2431334	Oxamyl	65.3	76.7	P/P	30 - 160
2431334	Propoxur	52.0	63.3	P/P	30 - 160

Reference Method: SM 4500-F- C-2011
Batch ID: P434017

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2430547	Fluoride	101	101	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P433955

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2427797	Organic Carbon	93.3	95.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P433863

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430892	Color (true)	3.40	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P433875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430782	Turbidity	0.531	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P433931

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430634	Calcium	2.37	Spike	P	0 - 20
2430634	Iron	1.43	Spike	P	0 - 20
2430634	Magnesium	1.64	Spike	P	0 - 20
2430634	Potassium	1.89	Spike	P	0 - 20
2430634	Sodium	1.90	Spike	P	0 - 20
2430634	Strontium	2.78	Spike	P	0 - 20
2430634	Tin	0.688	Spike	P	0 - 20
2430634	Titanium	0.867	Spike	P	0 - 20
2430634	Vanadium	0.908	Spike	P	0 - 20
2430634	Zinc	0.940	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P434124

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2432078	Aluminum	1.01	Spike	P	0 - 20
2432078	Antimony	1.04	Spike	P	0 - 20
2432078	Arsenic	0.482	Spike	P	0 - 20
2432078	Barium	0.136	Spike	P	0 - 20
2432078	Beryllium	0.705	Spike	P	0 - 20
2432078	Boron	0.124	Spike	P	0 - 20
2432078	Cadmium	1.24	Spike	P	0 - 20
2432078	Chromium	0.266	Spike	P	0 - 20
2432078	Cobalt	0.0368	Spike	P	0 - 20
2432078	Copper	0.215	Spike	P	0 - 20
2432078	Lead	1.03	Spike	P	0 - 20
2432078	Manganese	0.683	Spike	P	0 - 20
2432078	Molybdenum	0.221	Spike	P	0 - 20
2432078	Nickel	0.636	Spike	P	0 - 20
2432078	Selenium	3.33	Spike	P	0 - 20
2432078	Silver	0.675	Spike	P	0 - 20
2432078	Thallium	0.894	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P434071

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430783	Chloride	1.49	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P434171

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430785	Ammonia-N	1.70	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P434227

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430836	Kjeldahl Nitrogen	4.33	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430818	NO2NO3-N	0.651	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P434474

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430900	NO2NO3-N	0.447	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P433905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430900	Total-P	0.775	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P433851

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431068	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	29.2	Spike	P	0 - 37
2431068	Acetochlor	18.1	Spike	P	0 - 28
2431068	Alachlor	15.1	Spike	P	0 - 30
2431068	Ametryn	11.1	Spike	P	0 - 32
2431068	Atrazine	6.22	Spike	P	0 - 41
2431068	Atrazine Desethyl	8.97	Spike	P	0 - 36
2431068	Avobenzene	1.72	Spike	P	0 - 36
2431068	Azinphos Methyl	3.93	Spike	P	0 - 75
2431068	Azoxystrobin	11.4	Spike	P	0 - 39

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P433851

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431068	Bromacil	7.97	Spike	P	0 - 33
2431068	Butylate	0.371	Spike	P	0 - 44
2431068	Caffeine	20.3	Spike	P	0 - 74
2431068	Carbophenothion	3.14	Spike	P	0 - 25
2431068	Carfentrazone Ethyl	0.0158	Spike	P	0 - 27
2431068	Chlorfenapyr	2.72	Spike	P	0 - 24
2431068	Chlorpyrifos Ethyl	2.87	Spike	P	0 - 26
2431068	Chlorpyrifos Methyl	7.94	Spike	P	0 - 26
2431068	Coumaphos	17.9	Spike	P	0 - 28
2431068	Cyanazine	6.49	Spike	P	0 - 48
2431068	Cyprodinil	28.2	Spike	P	0 - 29
2431068	Dechlorane 602	11.0	Spike	P	0 - 30
2431068	Dechlorane 603	7.22	Spike	P	0 - 30
2431068	Dechlorane Plus	9.96	Spike	P	0 - 30
2431068	Demeton	1.26	Spike	P	0 - 33
2431068	Diazinon	20.3	Spike	P	0 - 29
2431068	Difenoconazole	3.90	Spike	P	0 - 34
2431068	Dimethenamid	5.38	Spike	P	0 - 39
2431068	Dimethomorph	4.49	Spike	P	0 - 51
2431068	Disulfoton	14.2	Spike	P	0 - 30
2431068	Dithiopyr	10.6	Spike	P	0 - 26
2431068	EPTC	13.2	Spike	P	0 - 43
2431068	Ethion	39.8	Spike	P	0 - 79
2431068	Ethoprop	3.93	Spike	P	0 - 29
2431068	Etridiazole	23.7	Spike	P	0 - 33
2431068	Fenamiphos	14.3	Spike	P	0 - 40
2431068	Fenbuconazole	10.2	Spike	P	0 - 74
2431068	Fipronil	6.70	Spike	P	0 - 29
2431068	Fipronil Desulfinyl	1.29	Spike	P	0 - 32
2431068	Fipronil Sulfide	5.62	Spike	P	0 - 30
2431068	Fipronil Sulfone	5.84	Spike	P	0 - 33
2431068	Fluazifop-P-butyl	4.40	Spike	P	0 - 38
2431068	Fludioxonil	6.35	Spike	P	0 - 29
2431068	Flumioxazin	15.2	Spike	P	0 - 51
2431068	Flutolanil	6.15	Spike	P	0 - 25
2431068	Fluxapyroxad	9.80	Spike	P	0 - 45
2431068	Fonofos	2.80	Spike	P	0 - 27
2431068	Hexabromobenzene	9.45	Spike	P	0 - 30
2431068	Hexazinone	5.63	Spike	P	0 - 30
2431068	Imazalil	12.4	Spike	P	0 - 100
2431068	Iprodione	12.0	Spike	P	0 - 33
2431068	Loratadine	7.16	Spike	P	0 - 56
2431068	Malathion	131	Spike	F	0 - 37
2431068	Metalaxyl	18.9	Spike	P	0 - 40
2431068	Metolachlor	16.0	Spike	P	0 - 29
2431068	Metribuzin	7.34	Spike	P	0 - 45
2431068	Mevinphos	0.723	Spike	P	0 - 29
2431068	Molinate	2.04	Spike	P	0 - 33
2431068	Myclobutanil	7.79	Spike	P	0 - 26
2431068	Naled	0.299	Spike	P	0 - 37
2431068	Napropamide	0.0317	Spike	P	0 - 44

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P433851

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431068	Norflurazon	3.25	Spike	P	0 - 30
2431068	Octinoxate	5.52	Spike	P	0 - 45
2431068	Oxadiazon	7.93	Spike	P	0 - 28
2431068	Oxybenzone	3.58	Spike	P	0 - 46
2431068	Oxyfluorfen	21.6	Spike	P	0 - 28
2431068	Parathion Ethyl	3.47	Spike	P	0 - 31
2431068	Parathion Methyl	8.08	Spike	P	0 - 29
2431068	PBB-153	14.9	Spike	P	0 - 30
2431068	PBDE-47	14.9	Spike	P	0 - 36
2431068	PBDE-99	14.4	Spike	P	0 - 40
2431068	Pendimethalin	11.2	Spike	P	0 - 33
2431068	Pentabromotoluene	5.49	Spike	P	0 - 30
2431068	Phenytoin	4.35	Spike	P	0 - 100
2431068	Phorate	3.00	Spike	P	0 - 36
2431068	Prodiamine	24.1	Spike	P	0 - 71
2431068	Prometon	13.7	Spike	P	0 - 36
2431068	Prometryn	7.12	Spike	P	0 - 28
2431068	Pronamide	1.56	Spike	P	0 - 24
2431068	Propanil	20.4	Spike	P	0 - 28
2431068	Propargite	16.1	Spike	P	0 - 43
2431068	Propiconazole	12.3	Spike	P	0 - 33
2431068	Pyraflufen Ethyl	9.58	Spike	P	0 - 29
2431068	Pyridaben	12.9	Spike	P	0 - 30
2431068	Pyriproxyfen	24.3	Spike	P	0 - 79
2431068	Simazine	8.43	Spike	P	0 - 29
2431068	Stirophos	76.2	Spike	F	0 - 61
2431068	Sulfentrazone	1.55	Spike	P	0 - 33
2431068	Tebuconazole	21.4	Spike	P	0 - 69
2431068	Terbufos	26.8	Spike	P	0 - 29
2431068	Terbutylazine	12.6	Spike	P	0 - 32
2431068	Tetradecachloro-m-terphenyl	3.98	Spike	P	0 - 30
2431068	Thiobencarb	43.4	Spike	F	0 - 26
2431068	Tri-o-cresyl Phosphate	3.77	Spike	P	0 - 33
2431068	Triadimefon	10.1	Spike	P	0 - 28
2431068	Tris(1-chloro-2-propyl) phosphate (TCPP)	0.221	Spike	P	0 - 30
2431068	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	0.241	Spike	P	0 - 30
2431068	Tris(2-chloroethyl) phosphate (TCEP)	3.86	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P433861

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431296	PCB-1016	6.98	Spike	P	0 - 25
2431296	PCB-1260	3.60	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P434403

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

Reference Method: EPA 8270E
Batch ID: P434403

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2433693	Aldrin	1.13	Spike	P	0 - 41
2433693	Alpha-BHC	10.2	Spike	P	0 - 25
2433693	Alpha-Chlordane	0.321	Spike	P	0 - 32
2433693	Beta-BHC	0.111	Spike	P	0 - 33
2433693	Beta-Cyfluthrin	35.5	Spike	P	0 - 43
2433693	Bifenthrin	43.3	Spike	P	0 - 52
2433693	Chlorothalonil	11.5	Spike	P	0 - 82
2433693	Cis-Nonachlor	2.55	Spike	P	0 - 33
2433693	Cypermethrin	38.4	Spike	P	0 - 51
2433693	Dacthal	17.9	Spike	P	0 - 27
2433693	DDD-p,p'	1.58	Spike	P	0 - 39
2433693	DDE-p,p'	0.0594	Spike	P	0 - 31
2433693	DDT-p,p'	17.0	Spike	P	0 - 29
2433693	Delta-BHC	21.9	Spike	P	0 - 35
2433693	Deltamethrin	52.2	Spike	P	0 - 100
2433693	Dichlobenil	4.92	Spike	P	0 - 40
2433693	Dicofol	2.69	Spike	P	0 - 37
2433693	Dieldrin	1.95	Spike	P	0 - 27
2433693	Endosulfan I	20.2	Spike	P	0 - 23
2433693	Endosulfan II	7.55	Spike	P	0 - 34
2433693	Endosulfan Sulfate	1.78	Spike	P	0 - 36
2433693	Endrin	6.06	Spike	P	0 - 45
2433693	Endrin Aldehyde	57.4	Spike	P	0 - 76
2433693	Endrin Ketone	11.3	Spike	P	0 - 43
2433693	Esfenvalerate	21.2	Spike	P	0 - 51
2433693	Ethalfuralin	4.36	Spike	P	0 - 22
2433693	Fenpropathrin	47.3	Spike	P	0 - 49
2433693	Gamma-BHC	2.22	Spike	P	0 - 28
2433693	Gamma-Chlordane	17.7	Spike	P	0 - 40
2433693	Heptachlor	10.5	Spike	P	0 - 29
2433693	Heptachlor Epoxide	1.72	Spike	P	0 - 33
2433693	Hexachlorobenzene	0.145	Spike	P	0 - 36
2433693	Kepone	20.8	Spike	P	0 - 85
2433693	Lambda-Cyhalothrin	31.9	Spike	P	0 - 55
2433693	Methoprene	0.0864	Spike	P	0 - 53
2433693	Methoxychlor	11.2	Spike	P	0 - 50
2433693	MGK-264	6.30	Spike	P	0 - 43
2433693	Mirex	20.8	Spike	P	0 - 40
2433693	Oxychlordane	15.9	Spike	P	0 - 31
2433693	Permethrin	4.39	Spike	P	0 - 50
2433693	Phenothrin	19.5	Spike	P	0 - 58
2433693	Piperonyl Butoxide	34.9	Spike	P	0 - 100
2433693	Prallethrin	10.5	Spike	P	0 - 39
2433693	Tau-Fluvalinate	39.1	Spike	P	0 - 54
2433693	Tetramethrin	7.75	Spike	P	0 - 51
2433693	Trans-Nonachlor	2.45	Spike	P	0 - 39
2433693	Triclosan Methyl	8.80	Spike	P	0 - 31
2433693	Trifluralin	22.8	Spike	F	0 - 22

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P433861

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431296	Chlordane	10.2	Spike	P	0 - 28
2431296	Toxaphene	3.84	Spike	P	0 - 27

Reference Method: EPA 8321B

Batch ID: P433790

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430880	Acesulfame K	3.44	Spike	P	0 - 30
2430880	AMPA	2.83	Spike	P	0 - 30
2430880	Endothall	1.84	Spike	P	0 - 30
2430880	Glufosinate	1.22	Spike	P	0 - 30
2430880	Glyphosate	6.56	Spike	P	0 - 30
2430880	Sucralose	3.17	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P433848

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430532	2,4-D	8.27	Spike	P	0 - 30
2430532	2,4,5-T	10.5	Spike	P	0 - 30
2430532	Acetaminophen	15.6	Spike	P	0 - 30
2430532	Acetamiprid	27.8	Spike	P	0 - 30
2430532	Afidopyropen	1.51	Spike	P	0 - 30
2430532	Bentazon	0.617	Spike	P	0 - 30
2430532	Benzovindiflupyr	0.673	Spike	P	0 - 30
2430532	Carbamazepine	11.8	Spike	P	0 - 30
2430532	Clothianidin	4.93	Spike	P	0 - 30
2430532	Dinotefuran	10.6	Spike	P	0 - 30
2430532	Diuron	3.38	Spike	P	0 - 30
2430532	Fenuron	10.2	Spike	P	0 - 30
2430532	Fluridone	0.426	Spike	P	0 - 30
2430532	Hydrocodone	11.0	Spike	P	0 - 30
2430532	Ibuprofen	3.64	Spike	P	0 - 30
2430532	Imazapyr	10.4	Spike	P	0 - 30
2430532	Imidacloprid	0.207	Spike	P	0 - 30
2430532	Linuron	4.26	Spike	P	0 - 30
2430532	Mandestrobin	0.152	Spike	P	0 - 30
2430532	MCPP	7.98	Spike	P	0 - 30
2430532	Naproxen	10.1	Spike	P	0 - 30
2430532	Primidone	1.52	Spike	P	0 - 30
2430532	Pyraclostrobin	1.10	Spike	P	0 - 30
2430532	Silvex	19.9	Spike	P	0 - 30
2430532	Thiamethoxam	8.40	Spike	P	0 - 30
2430532	Tolfenpyrad	3.91	Spike	P	0 - 30
2430532	Triclopyr	7.09	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P434040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2431334	3-Hydroxycarbofuran	9.62	Spike	P	0 - 30
2431334	Aldicarb	11.5	Spike	P	0 - 30
2431334	Aldicarb Sulfone	9.98	Spike	P	0 - 30
2431334	Aldicarb Sulfoxide	14.9	Spike	P	0 - 30
2431334	Carbaryl	5.75	Spike	P	0 - 30
2431334	Carbofuran	8.23	Spike	P	0 - 30
2431334	Methiocarb	15.1	Spike	P	0 - 30
2431334	Methomyl	12.8	Spike	P	0 - 30
2431334	Oxamyl	16.0	Spike	P	0 - 30
2431334	Propoxur	19.4	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P434014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430547	Total Alkalinity	1.31	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P434487

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430825	TDS	3.87	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P434017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2430547	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P433955

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2427797	Organic Carbon	1.76	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2430880
Field Sample ID: G3SD0176

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	115	P	30 - 160
EPA 8321B	Acetaminophen-d4	107	P	30 - 160
EPA 8321B	Carbamazepine-d10	53.9	P	30 - 160
EPA 8321B	Diuron-d6	42.8	P	30 - 160
EPA 8321B	Endothall-d6	139	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.8	P	30 - 160
EPA 8321B	Primidone-d5	70.4	P	30 - 160
EPA 8321B	Sucralose-d6	111	P	30 - 160

Lab Sample ID: 2430881
Field Sample ID: G3SD0177

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	130	P	30 - 160
EPA 8321B	Acetaminophen-d4	111	P	30 - 160
EPA 8321B	Carbamazepine-d10	71.1	P	30 - 160
EPA 8321B	Diuron-d6	48.9	P	30 - 160
EPA 8321B	Endothall-d6	106	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	71.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	86.9	P	30 - 160
EPA 8321B	Primidone-d5	80.8	P	30 - 160
EPA 8321B	Sucralose-d6	90.4	P	30 - 160

Lab Sample ID: 2430882
Field Sample ID: G3SD0226

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	47.3	P	30 - 160

Lab Sample ID: 2430883
Field Sample ID: G3SD0226

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	106	P	30 - 160
EPA 8321B	Acetaminophen-d4	93.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	55.6	P	30 - 160
EPA 8321B	Diuron-d6	40.3	P	30 - 160
EPA 8321B	Endothall-d6	120	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	97.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.7	P	30 - 160
EPA 8321B	Primidone-d5	62.7	P	30 - 160
EPA 8321B	Sucralose-d6	102	P	30 - 160

Lab Sample ID: 2430884
Field Sample ID: G3SD0226

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	96.1	P	37 - 129
EPA 8270E	Decachlorobiphenyl	87.5	P	26 - 115
EPA 8270E	Decachlorobiphenyl	102	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	76.2	P	30 - 101

Quality Assurance Report Surrogates

Lab Sample ID: 2430884
Field Sample ID: G3SD0226

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Tetrachloro-m-xylene	56.4	P	29 - 95.0
EPA 8270E	Tetrachloro-m-xylene	65.1	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	62.0	P	28 - 102
EPA 8276	PCNB	83.4	P	49 - 115

Lab Sample ID: 2430885
Field Sample ID: G3SD0226

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	61.5	P	20 - 200
EPA 8270E	Simazine-d10	75.8	P	62 - 142
EPA 8270E	Terbufos-d10	82.5	P	58 - 132
EPA 8270E	Terphenyl-d14	128	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A121044

Included Lab Sample IDs: 2430834, 2430835, 2430838

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A121048

Included Lab Sample IDs: 2430834, 2430835, 2430838

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A121057

Included Lab Sample IDs: 2430834, 2430835, 2430838

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.7	97.1	P/P	90 - 110
Sulfate	97.7	96.8	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A121079

Included Lab Sample IDs: 2430836, 2430837, 2430839

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.1	95.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A121082

Included Lab Sample IDs: 2430880, 2430881, 2430883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	106	131	P/P	60 - 160
Acesulfame K	131	112	P/P	60 - 160
Sucralose	92.6	93.3	P/P	60 - 160
Sucralose	93.3	97.3	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A121084

Included Lab Sample IDs: 2430880, 2430881, 2430883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	135	83.6	P/P	60 - 160
AMPA	83.6	137	P/P	60 - 160
Endothall	103	105	P/P	60 - 160
Endothall	114	103	P/P	60 - 160
Glufosinate	101	92.0	P/P	60 - 160
Glufosinate	92.0	98.0	P/P	60 - 160
Glyphosate	102	103	P/P	60 - 160
Glyphosate	98.1	102	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121096

Included Lab Sample IDs: 2430836, 2430837

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A121102

Included Lab Sample IDs: 2430839

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	100	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A121108

Included Lab Sample IDs: 2430886, 2430887

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	102	P/P	90 - 110
Iron	101	102	P/P	90 - 110
Magnesium	101	102	P/P	90 - 110
Potassium	99.6	100	P/P	90 - 110
Sodium	104	104	P/P	90 - 110
Strontium	100	102	P/P	90 - 110
Tin	97.2	100	P/P	90 - 110
Titanium	96.1	99.2	P/P	90 - 110
Vanadium	96.9	100	P/P	90 - 110
Zinc	98.0	101	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A121111

Included Lab Sample IDs: 2430834, 2430835, 2430838

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.0	98.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A121111

Included Lab Sample IDs: 2430834, 2430835, 2430838

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

Reference Method: EPA 8270E

Run ID: A121118

Included Lab Sample IDs: 2430885

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	87.6		P	80 - 120
Alachlor	85.6		P	80 - 120
Ametryn	107		P	80 - 120
Atrazine	89.7		P	80 - 120
Atrazine Desethyl	89.8		P	80 - 120
Azinphos Methyl	105		P	80 - 120
Azoxystrobin	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121118
Included Lab Sample IDs: 2430885

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	104		P	80 - 120
Butylate	103		P	80 - 120
Caffeine	83.5		P	80 - 120
Carbophenothion	107		P	80 - 120
Carfentrazone Ethyl	103		P	80 - 120
Chlorfenapyr	95.9		P	80 - 120
Chlorpyrifos Ethyl	91.4		P	80 - 120
Chlorpyrifos Methyl	104		P	80 - 120
Coumaphos	104		P	80 - 120
Cyanazine	103		P	80 - 120
Cyprodinil	99.1		P	80 - 120
Demeton	103		P	80 - 120
Diazinon	107		P	80 - 120
Difenoconazole	97.2		P	80 - 120
Dimethenamid	104		P	80 - 120
Dimethomorph	94.1		P	80 - 120
Disulfoton	103		P	80 - 120
Dithiopyr	111		P	80 - 120
EPTC	98.5		P	80 - 120
Ethion	91.6		P	80 - 120
Ethoprop	98.5		P	80 - 120
Etridiazole	97.9		P	80 - 120
Fenamiphos	88.6		P	80 - 120
Fenbuconazole	92.2		P	80 - 120
Fipronil	93.1		P	80 - 120
Fipronil Desulfinyl	108		P	80 - 120
Fipronil Sulfide	105		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fluazifop-P-butyl	106		P	80 - 120
Fludioxonil	92.9		P	80 - 120
Flumioxazin	101		P	80 - 120
Flutolanil	104		P	80 - 120
Fluxapyroxad	100		P	80 - 120
Fonofos	102		P	80 - 120
Hexazinone	99.0		P	80 - 120
Imazalil	96.2		P	80 - 120
Iprodione	91.9		P	80 - 120
Loratadine	101		P	80 - 120
Malathion	92.5		P	80 - 120
Metalaxyl	91.0		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	95.4		P	80 - 120
Mevinphos	97.4		P	80 - 120
Molinate	88.2		P	80 - 120
Myclobutanil	86.5		P	80 - 120
Naled	106		P	80 - 120
Napropamide	101		P	80 - 120
Norflurazon	103		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	104		P	80 - 120
Parathion Ethyl	96.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121118
Included Lab Sample IDs: 2430885

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Parathion Methyl	93.5		P	80 - 120
Pendimethalin	104		P	80 - 120
Phenytoin	98.2		P	80 - 120
Phorate	87.9		P	80 - 120
Prodiamine	113		P	80 - 120
Prometon	91.5		P	80 - 120
Prometryn	97.9		P	80 - 120
Pronamide	105		P	80 - 120
Propanil	111		P	80 - 120
Propargite	100		P	80 - 120
Propiconazole	87.0		P	80 - 120
Pyraflufen Ethyl	112		P	80 - 120
Pyridaben	101		P	80 - 120
Pyriproxyfen	99.9		P	80 - 120
Simazine	102		P	80 - 120
Stirophos	93.3		P	80 - 120
Sulfentrazone	97.6		P	80 - 120
Tebuconazole	99.7		P	80 - 120
Terbufos	99.7		P	80 - 120
Terbutylazine	92.3		P	80 - 120
Thiobencarb	104		P	80 - 120
Triadimefon	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A121134
Included Lab Sample IDs: 2430885

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	99.5		P	80 - 120
Avobenzone	99.0		P	80 - 120
Dechlorane 602	101		P	80 - 120
Dechlorane 603	99.8		P	80 - 120
Dechlorane Plus	102		P	80 - 120
Hexabromobenzene	95.4		P	80 - 120
Octinoxate	95.5		P	80 - 120
Oxybenzone	96.8		P	80 - 120
PBB-153	97.7		P	80 - 120
PBDE-47	95.2		P	80 - 120
PBDE-99	99.8		P	80 - 120
Pentabromotoluene	97.9		P	80 - 120
Tetradecachloro-m-terphenyl	92.6		P	80 - 120
Tri-o-cresyl Phosphate	100		P	80 - 120
Tris(1-chloro-2-propyl) phosphate (TCPP)	92.8		P	80 - 120
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	96.3		P	80 - 120
Tris(2-chloroethyl) phosphate (TCEP)	98.1		P	80 - 120

Reference Method: EPA 8321B
Run ID: A121151
Included Lab Sample IDs: 2430880, 2430881, 2430883

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

Reference Method: EPA 8321B

Run ID: A121151

Included Lab Sample IDs: 2430880, 2430881, 2430883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	105	111	P/P	50 - 150
2,4,5-T	117	108	P/P	50 - 150
3-Hydroxycarbofuran	104	103	P/P	60 - 150
Acetaminophen	90.2	89.6	P/P	60 - 160
Acetamiprid	117	121	P/P	50 - 150
Afidopyropen	91.8	94.1	P/P	50 - 150
Aldicarb	101	103	P/P	60 - 150
Aldicarb Sulfone	115	108	P/P	50 - 150
Aldicarb Sulfoxide	120	111	P/P	50 - 150
Bentazon	131	131	P/P	50 - 160
Benzovindiflupyr	114	117	P/P	50 - 160
Carbamazepine	120	126	P/P	60 - 150
Carbaryl	118	117	P/P	60 - 150
Carbofuran	123	122	P/P	50 - 150
Clothianidin	94.6	94.7	P/P	60 - 150
Dinotefuran	121	123	P/P	50 - 150
Diuron	117	128	P/P	60 - 160
Fenuron	103	104	P/P	60 - 150
Fluridone	106	116	P/P	60 - 160
Hydrocodone	107	104	P/P	60 - 150
Ibuprofen	134	140	P/P	50 - 160
Imazapyr	113	120	P/P	50 - 150
Imidacloprid	104	107	P/P	60 - 150
Linuron	104	106	P/P	60 - 150
Mandestrobin	116	119	P/P	50 - 150
MCPP	113	112	P/P	50 - 150
Methiocarb	113	101	P/P	50 - 150
Methomyl	120	100	P/P	50 - 150
Naproxen	77.1	107	P/P	50 - 160
Oxamyl	122	101	P/P	50 - 150
Primidone	96.5	101	P/P	60 - 150
Propoxur	121	126	P/P	50 - 150
Pyraclostrobin	124	129	P/P	60 - 150
Silvex	111	123	P/P	50 - 150
Thiamethoxam	114	115	P/P	50 - 150
Tolfenpyrad	111	116	P/P	60 - 150
Triclopyr	103	102	P/P	50 - 150

Reference Method: EPA 8270E

Run ID: A121163

Included Lab Sample IDs: 2430884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	105		P	80 - 120
PCB-1260	102		P	80 - 120

Reference Method: EPA 8276

Run ID: A121168

Included Lab Sample IDs: 2430884

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

Reference Method: EPA 8276

Run ID: A121168

Included Lab Sample IDs: 2430884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.7		P	80 - 120
Toxaphene	98.9		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A121170

Included Lab Sample IDs: 2430836, 2430837, 2430839

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.1	98.2	P/P	90 - 110
Ammonia-N	98.2	99.2	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121188

Included Lab Sample IDs: 2430886, 2430887

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	96.8	97.0	P/P	90 - 110
Antimony	95.5	94.3	P/P	90 - 110
Arsenic	93.3	92.4	P/P	90 - 110
Barium	97.4	96.0	P/P	90 - 110
Boron	99.7	97.5	P/P	90 - 110
Cadmium	96.3	95.5	P/P	90 - 110
Chromium	94.8	94.4	P/P	90 - 110
Copper	92.0	90.5	P/P	90 - 110
Manganese	97.1	96.1	P/P	90 - 110
Molybdenum	92.7	92.8	P/P	90 - 110
Selenium	96.1	96.3	P/P	90 - 110
Silver	92.1	90.8	P/P	90 - 110
Thallium	93.3	91.0	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121217

Included Lab Sample IDs: 2430886, 2430887

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	94.0	91.9	P/P	90 - 110
Lead	92.9	91.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A121227

Included Lab Sample IDs: 2430836, 2430837, 2430839

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	99.2	P/P	90 - 110
Kjeldahl Nitrogen	103	102	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121269

Included Lab Sample IDs: 2430886, 2430887

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121269

Included Lab Sample IDs: 2430886, 2430887

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cobalt	99.6	98.3	P/P	90 - 110
Nickel	98.1	96.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A121306

Included Lab Sample IDs: 2430836, 2430837, 2430839

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	97.5	97.5	P/P	90 - 110
NO2NO3-N	98.0	97.5	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A121372

Included Lab Sample IDs: 2430884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	103		P	80 - 120
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	112		P	80 - 120
Beta-BHC	106		P	80 - 120
Beta-Cyfluthrin	101		P	80 - 120
Bifenthrin	109		P	80 - 120
Chlorothalonil	110		P	80 - 120
Cis-Nonachlor	107		P	80 - 120
Cypermethrin	111		P	80 - 120
Dacthal	104		P	80 - 120
DDD-p,p'	109		P	80 - 120
DDE-p,p'	107		P	80 - 120
DDT-p,p'	98.3		P	80 - 120
Delta-BHC	106		P	80 - 120
Deltamethrin	105		P	80 - 120
Dichlobenil	110		P	80 - 120
Dicofol	98.9		P	80 - 120
Dieldrin	107		P	80 - 120
Endosulfan I	109		P	80 - 120
Endosulfan II	104		P	80 - 120
Endosulfan Sulfate	99.3		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	108		P	80 - 120
Endrin Ketone	99.0		P	80 - 120
Esfenvalerate	109		P	80 - 120
Ethalfuralin	104		P	80 - 120
Fenpropathrin	107		P	80 - 120
Gamma-BHC	121*		F	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	95.1		P	80 - 120
Heptachlor Epoxide	105		P	80 - 120
Hexachlorobenzene	106		P	80 - 120
Kepone	62.9*		F	80 - 120
Lambda-Cyhalothrin	115		P	80 - 120
Methoprene	109		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A121372
Included Lab Sample IDs: 2430884

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Methoxychlor	98.8		P	80 - 120
MGK-264	109		P	80 - 120
Mirex	109		P	80 - 120
Oxychlordane	109		P	80 - 120
Permethrin	109		P	80 - 120
Phenothrin	110		P	80 - 120
Piperonyl Butoxide	114		P	80 - 120
Prallethrin	105		P	80 - 120
Tau-Fluvalinate	109		P	80 - 120
Tetramethrin	110		P	80 - 120
Trans-Nonachlor	109		P	80 - 120
Triclosan Methyl	105		P	80 - 120
Trifluralin	102		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			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	100					3.40	
EPA 180.1 Rev. 2.0	Turbidity	99.3					0.531	
EPA 200.7 Rev. 4.4	Calcium	100		99.6				2.37
	Iron	101	101	103	104			1.43
	Magnesium	101	99.3	102	104			1.64
	Potassium	99.8	99.9	103	99.8			1.89
	Sodium	107	105					1.90
	Strontium	102	99.9	103	104			2.78
	Tin	98.6	97.9	98.6	104			0.688
	Titanium	99.7	99.0	99.9	103			0.867
	Vanadium	100	100	101	105			0.908
	Zinc	97.2	98.0	98.9	105			0.940
EPA 200.8 Rev. 5.4	Aluminum	97.3	97.1	98.2	98.2			1.01
	Antimony	98.5	98.6	97.5	97.7			1.04
	Arsenic	93.5	94.0	93.6	92.2			0.482
	Barium	100	99.1	99.0	98.1			0.136
	Beryllium	91.7	92.2	91.6	89.2			0.705
	Boron	100	101	101	102			0.124
	Cadmium	97.0	97.1	95.9	97.0			1.24
	Chromium	92.5	93.1	93.3	91.9			0.266
	Cobalt	90.0	89.4	89.4	91.1			0.0368
	Copper	93.8	95.4	95.6	92.1			0.215
	Lead	95.4	96.1	97.1	95.0			1.03
	Manganese	97.3	96.5	95.8	95.6			0.683
	Molybdenum	94.2	94.8	94.6	94.5			0.221
	Nickel	89.8	89.7	89.2	92.9			0.636
	Selenium	96.2	97.3	94.1	93.7			3.33
	Silver	108	106	105	105			0.675
	Thallium	96.3	98.3	99.2	98.5			0.894
EPA 300.0 Rev. 2.1	Chloride	98.6	98.3	98.0			1.49	
	Sulfate	96.8	97.2	95.7				
EPA 350.1 Rev. 2.0	Ammonia-N	95.8	99.8	102				1.70
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	110	101	109				4.33
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	98.0	97.0				0.651
	NO2NO3-N	99.5	97.0	96.5				0.447
EPA 365.1 Rev. 2.0	Total-P	100	105	106				0.775
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	46.5	95.9	71.5				29.2
	Acetochlor	83.3	97.6	81.4				18.1
	Alachlor	89.5	89.1	76.6				15.1
	Aldrin	42.0	40.0	40.4				1.13
	Alpha-BHC	78.9	72.9	80.7				10.2
	Alpha-Chlordane	63.3	69.6	69.8				0.321
	Ametryn	123	139	124				11.1
	Atrazine	86.8	91.4	85.9				6.22
	Atrazine Desethyl	48.4	72.8	66.1				8.97
	Avobenzone	134	102	99.8				1.72
	Azinphos Methyl	138	145	151				3.93
	Azoxystrobin	113	110	123				11.4
	Beta-BHC	67.7	90.0	89.9				0.111
	Beta-Cyfluthrin	61.5	37.3	53.4				35.5
	Bifenthrin	52.6	30.4	47.2				43.3
	Bromacil	95.0						7.97

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Butylate	55.9	60.4	60.2		0.371
	Caffeine	88.4	124	101		20.3
	Carbophenothion	101	93.4	96.4		3.14
	Carfentrazone Ethyl	105	98.7	98.7		0.0158
	Chlorfenapyr	85.8	82.4	80.2		2.72
	Chlorothalonil	59.1	77.8	87.3		11.5
	Chlorpyrifos Ethyl	92.2	81.1	78.8		2.87
	Chlorpyrifos Methyl	102	91.7	99.3		7.94
	Cis-Nonachlor	61.2	60.2	61.8		2.55
	Coumaphos	141	177	148		17.9
	Cyanazine	117	128	120		6.49
	Cypermethrin	81.8	37.9	55.9		38.4
	Cyprodinil	99.9	67.8	93.1		28.2
	Dacthal	77.4	70.3	58.8		17.9
	DDD-p,p'	61.4	52.3	53.2		1.58
	DDE-p,p'	58.9	52.6	52.6		0.0594
	DDT-p,p'	50.5	45.5	53.9		17.0
	Dechlorane 602	44.2	59.3	53.1		11.0
	Dechlorane 603	113	114	106		7.22
	Dechlorane Plus	84.0	93.7	84.8		9.96
	Delta-BHC	78.4	87.6	109		21.9
	Deltamethrin	81.1	32.5	55.5		52.2
	Demeton	74.8	80.7	79.7		1.26
	Diazinon	96.1	113	92.3		20.3
	Dichlobenil	55.7	63.1	66.3		4.92
	Dicofol	52.5	54.2	55.7		2.69
	Dieldrin	60.2	52.9	54.4		1.95
	Difenoconazole	106	129	134		3.90
	Dimethenamid	84.8	81.9	86.4		5.38
	Dimethomorph	225	203	213		4.49
	Disulfoton	92.5	111	96.1		14.2
	Dithiopyr	87.4	97.7	87.9		10.6
	Endosulfan I	62.1	69.7	56.9		20.2
	Endosulfan II	65.3	70.8	76.3		7.55
	Endosulfan Sulfate	76.3	60.9	59.8		1.78
	Endrin	65.1	50.3	47.4		6.06
	Endrin Aldehyde	7.56	54.8	30.4		57.4
	Endrin Ketone	104	65.3	58.3		11.3
	EPTC	56.7	61.0	53.5		13.2
	Esfenvalerate	72.2	81.5	101		21.2
	Ethalfuralin	57.2	57.0	59.5		4.36
	Ethion	42.2	72.9	48.7		39.8
	Ethoprop	93.1	95.2	91.5		3.93
	Etridiazole	58.2	75.5	59.5		23.7
	Fenamiphos	83.4	110	95.4		14.3
	Fenbuconazole	99.5	86.5	95.8		10.2
	Fenpropathrin	69.7	40.0	64.8		47.3
	Fipronil	93.2	100	93.9		6.70
	Fipronil Desulfinyl	85.2	85.8	86.9		1.29
	Fipronil Sulfide	94.5	98.3	93.0		5.62
	Fipronil Sulfone	92.5	98.9	93.3		5.84
	Fluazifop-P-butyl	107	109	104		4.40
	Fludioxonil	78.2	71.0	76.5		6.35
	Flumioxazin	60.2	143	123		15.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Flutolanil	83.7	56.6	52.0		6.15
	Fluxapyroxad	68.6	100	84.4		9.80
	Fonofos	91.3	90.0	87.5		2.80
	Gamma-BHC	114	89.8	87.8		2.22
	Gamma-Chlordane	64.1	64.6	54.1		17.7
	Heptachlor	65.1	46.7	42.0		10.5
	Heptachlor Epoxide	62.2	78.3	79.7		1.72
	Hexabromobenzene	102	115	104		9.45
	Hexachlorobenzene	39.4	52.1	52.0		0.145
	Hexazinone	82.1	83.5	88.3		5.63
	Imazalil	98.2	101	89.3		12.4
	Iprodione	91.8	73.5	82.9		12.0
	Kepone	67.2	76.9	62.4		20.8
	Lambda-Cyhalothrin	63.0	37.4	51.6		31.9
	Loratadine	182	149	160		7.16
	Malathion	105	22.3	107		131
	Metalaxyl	78.7	91.3	75.5		18.9
	Methoprene	52.6	66.0	66.0		0.0864
	Methoxychlor	62.7	58.1	65.0		11.2
	Metolachlor	111	83.9	101		16.0
	Metribuzin	94.5	85.9	79.8		7.34
	Mevinphos	95.3	99.4	100		0.723
	MGK-264	81.5	96.2	102		6.30
	Mirex	52.0	34.7	42.8		20.8
	Molinate	57.1	58.1	59.3		2.04
	Myclobutanil	87.5	91.1	84.2		7.79
	Naled	54.1	57.5	57.4		0.299
	Napropamide	75.3	76.5	76.5		0.0317
	Norflurazon	83.8				3.25
	Octinoxate	114	115	109		5.52
	Oxadiazon	79.9	81.3	75.1		7.93
	Oxybenzone	113	104	107		3.58
	Oxychlordane	60.8	64.6	55.1		15.9
	Oxyfluorfen	107	122	98.0		21.6
	Parathion Ethyl	88.8	93.2	96.5		3.47
	Parathion Methyl	106	97.3	106		8.08
	PBB-153	78.5	110	94.7		14.9
	PBDE-47	76.0	93.4	80.5		14.9
	PBDE-99	58.3	81.7	70.8		14.4
	PCB-1016	64.9	75.7	81.2		6.98
	PCB-1260	62.8	63.4	65.8		3.60
	Pendimethalin	106	86.7	97.0		11.2
	Pentabromotoluene	99.7	101	95.9		5.49
	Permethrin	65.5	49.3	51.6		4.39
	Phenothrin	50.9	32.9	40.1		19.5
	Phenytol	55.7	52.2	54.5		4.35
	Phorate	101	97.7	101		3.00
	Piperonyl Butoxide	95.2	60.4	85.9		34.9
	Prallethrin	67.7	76.8	69.1		10.5
	Prodiamine	43.2	30.6	39.1		24.1
	Prometon	104	80.0	91.7		13.7
	Prometryn	116	103	111		7.12
	Pronamide	90.8	102	100		1.56
	Propanil	100	118	95.8		20.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Propargite	54.2	75.4	64.1		16.1
	Propiconazole	83.7	72.9	82.4		12.3
	Pyraflufen Ethyl	107	104	94.4		9.58
	Pyridaben	123	137	121		12.9
	Pyriproxyfen	63.6	102	79.9		24.3
	Simazine	91.6	87.2	94.9		8.43
	Stirophos	46.8	25.6	57.0		76.2
	Sulfentrazone	80.5	88.1	86.7		1.55
	Tau-Fluvalinate	69.5	33.9	50.4		39.1
	Tebuconazole	39.5	54.4	43.9		21.4
	Terbufos	101	128	98.1		26.8
	Terbutylazine	81.1	90.0	79.3		12.6
	Tetradecachloro-m-terphenyl	139	92.9	89.3		3.98
	Tetramethrin	76.5	70.6	76.3		7.75
	Thiobencarb	87.0	56.2	87.4		43.4
	Trans-Nonachlor	66.1	66.0	64.4		2.45
	Tri-o-cresyl Phosphate	119	116	112		3.77
	Triadimefon	81.7	88.5	80.0		10.1
	Triclosan Methyl	59.3	58.8	53.8		8.80
	Trifluralin	53.2	51.3	64.5		22.8
	Tris(1-chloro-2-propyl) phosphate (TCPP)	123	89.5	89.2		0.221
	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	103	107	107		0.241
	Tris(2-chloroethyl) phosphate (TCEP)	105	114	110		3.86
EPA 8276	Chlordane	83.7	62.2	68.9		10.2
	Toxaphene	85.4	73.3	76.2		3.84
EPA 8321B	2,4-D	98.3				8.27
	2,4,5-T	103	135	121		10.5
	3-Hydroxycarbofuran	66.0	47.6	52.4		9.62
	Acesulfame K	105	128	132		3.44
	Acetaminophen	82.2	120	102		15.6
	Acetamiprid	90.5	60.2	79.6		27.8
	Afidopyropen	30.6	36.8	36.2		1.51
	Aldicarb	71.5	50.0	56.2		11.5
	Aldicarb Sulfone	86.6	68.0	75.2		9.98
	Aldicarb Sulfoxide	88.6	25.8	30.0		14.9
	AMPA	117	62.5	60.4		2.83
	Bentazon	115				0.617
	Benzovindiflupyr	93.4	84.9	84.4		0.673
	Carbamazepine	100	72.0	81.9		11.8
	Carbaryl	73.6	53.5	56.7		5.75
	Carbofuran	83.6	57.6	62.6		8.23
	Clothianidin	89.0				4.93
	Dinotefuran	107	92.4	103		10.6
	Diuron	92.7	64.1	66.6		3.38
	Endothall	109	135	138		1.84
	Fenuron	87.3	62.1	68.8		10.2
	Fluridone	95.5	79.2	79.6		0.426
	Glufosinate	103	83.0	84.0		1.22
	Glyphosate	99.6	93.9	101		6.56
	Hydrocodone	92.6	69.1	77.2		11.0
	Ibuprofen	66.5	41.9	40.4		3.64

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8321B	Imazapyr	98.9				10.4
	Imidacloprid	98.0	129	129		0.207
	Linuron	82.6	58.4	60.9		4.26
	Mandestrobin	96.7	85.6	85.8		0.152
	MCCP	105	147	136		7.98
	Methiocarb	63.8	48.7	56.6		15.1
	Methomyl	81.8	60.8	69.1		12.8
	Naproxen	81.7	88.3	97.7		10.1
	Oxamyl	81.2	65.3	76.7		16.0
	Primidone	88.0	98.6	96.9		1.52
	Propoxur	71.5	52.0	63.3		19.4
	Pyraclostrobin	94.1	92.4	91.4		1.10
	Silvex	109	165	135		19.9
	Sucralose	96.4	97.4	94.4		3.17
	Thiamethoxam	104	94.8	104		8.40
	Tolfenpyrad	64.2	64.3	61.9		3.91
	Triclopyr	95.4	126	118		7.09
SM 2320 B-2011	Total Alkalinity	98.1				1.31
SM 2540 C-2015	TDS	93.3				3.87
SM 2540 D-2015	TSS	91.4				
SM 4500-F- C-2011	Fluoride	102	101	101		0.0
SM 5310 B-2011	Organic Carbon	94.4	93.3	95.2		1.76

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2430834, 2430835, 2430838
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2430834, 2430835, 2430838
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2430886, 2430887
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2430886, 2430887
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2430834, 2430835, 2430838
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2430834, 2430835, 2430838
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2430836, 2430837, 2430839
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2430836, 2430837, 2430839
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2430836, 2430837, 2430839
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2430836, 2430837, 2430839
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2430885
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2430884
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2430885
EPA 8270E	PCBs in water matrices by GC/MS/MS	2430884
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2430884
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2430882
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2430880, 2430881, 2430883
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2430834, 2430835, 2430838
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2430886, 2430887
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2430834, 2430835, 2430838
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2430834, 2430835, 2430838
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2430834, 2430835, 2430838
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2430836, 2430837, 2430839

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	08/15/2023			08/15/2023 14:18	Samantha L Bates	2430834
	08/15/2023			08/15/2023 14:19	Samantha L Bates	2430835
	08/15/2023			08/15/2023 14:20	Samantha L Bates	2430838
EPA 180.1 Rev. 2.0	08/15/2023			08/15/2023 13:23	Chandler E Cox	2430834
	08/15/2023			08/15/2023 13:24	Chandler E Cox	2430835
	08/15/2023			08/15/2023 13:28	Chandler E Cox	2430838
EPA 200.7 Rev. 4.4	08/15/2023	08/16/2023 12:35	George D Taylor	08/17/2023 18:34	Samatha Luckman	2430886
	08/15/2023	08/16/2023 12:35	George D Taylor	08/17/2023 18:42	Samatha Luckman	2430887
EPA 200.8 Rev. 5.4	08/15/2023	08/21/2023 12:45	George D Taylor	08/22/2023 21:15	Conrad Hartmann	2430886
	08/15/2023	08/21/2023 12:45	George D Taylor	08/22/2023 21:25	Conrad Hartmann	2430887
	08/15/2023	08/21/2023 12:45	George D Taylor	08/23/2023 15:52	Conrad Hartmann	2430886
	08/15/2023	08/21/2023 12:45	George D Taylor	08/23/2023 15:58	Conrad Hartmann	2430887
	08/15/2023	08/21/2023 12:45	George D Taylor	08/25/2023 16:09	Conrad Hartmann	2430886
EPA 300.0 Rev. 2.1	08/15/2023	08/21/2023 12:45	George D Taylor	08/25/2023 16:16	Conrad Hartmann	2430887
	08/15/2023			08/17/2023 22:10	James L Waggeberby	2430834
	08/15/2023			08/17/2023 22:33	James L Waggeberby	2430835
EPA 350.1 Rev. 2.0	08/15/2023			08/17/2023 22:48	James L Waggeberby	2430838
	08/15/2023			08/22/2023 12:28	Khloe J Berg	2430837
	08/15/2023			08/22/2023 12:29	Khloe J Berg	2430839
EPA 351.2 Rev. 2.0	08/15/2023			08/22/2023 12:52	Khloe J Berg	2430836
	08/15/2023	08/23/2023 11:43	Dana G. Hughes	08/24/2023 12:07	Samantha L Bates	2430836
	08/15/2023	08/23/2023 11:43	Dana G. Hughes	08/24/2023 12:15	Samantha L Bates	2430837
EPA 353.2 Rev. 2.0	08/15/2023	08/23/2023 11:43	Dana G. Hughes	08/24/2023 12:17	Samantha L Bates	2430839
	08/15/2023			08/29/2023 10:38	Beverly Y. Sanders	2430836
	08/15/2023			08/29/2023 10:39	Beverly Y. Sanders	2430837
EPA 365.1 Rev. 2.0	08/15/2023			08/29/2023 10:52	Beverly Y. Sanders	2430839
	08/15/2023	08/16/2023 16:02	Adam P Silver	08/17/2023 14:14	James L Waggeberby	2430836
	08/15/2023	08/16/2023 16:02	Adam P Silver	08/17/2023 14:15	James L Waggeberby	2430837
EPA 8270E	08/15/2023	08/16/2023 16:02	Adam P Silver	08/17/2023 17:55	James L Waggeberby	2430839
	08/15/2023	08/16/2023 08:00	Fe-Val Siddell	08/17/2023 16:24	Vandana T. Nagar	2430885
	08/15/2023	08/16/2023 08:00	Fe-Val Siddell	08/18/2023 20:37	Arthur Maknenko	2430885
	08/15/2023	08/17/2023 08:30	Rasheda Ghaffari	08/22/2023 00:13	Julie Wi	2430884
	08/15/2023	08/29/2023 08:00	Fe-Val Siddell	09/05/2023 23:02	Vandana T. Nagar	2430884
EPA 8276	08/15/2023	08/17/2023 08:30	Rasheda Ghaffari	08/22/2023 07:35	Arthur Maknenko	2430884
EPA 8321B	08/15/2023	08/16/2023 04:30	Tae K Lee	08/16/2023 05:35	Hana Lee	2430880
	08/15/2023	08/16/2023 04:30	Tae K Lee	08/16/2023 06:45	Hana Lee	2430881
	08/15/2023	08/16/2023 04:30	Tae K Lee	08/16/2023 07:13	Hana Lee	2430883
	08/15/2023	08/16/2023 04:30	Tae K Lee	08/16/2023 12:12	Hana Lee	2430880
	08/15/2023	08/16/2023 04:30	Tae K Lee	08/16/2023 13:18	Hana Lee	2430881
	08/15/2023	08/16/2023 04:30	Tae K Lee	08/16/2023 13:44	Hana Lee	2430883

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	08/15/2023	08/16/2023 13:00	Hoor Shaik	08/18/2023 22:05	Juyoung Kim	2430880
	08/15/2023	08/16/2023 13:00	Hoor Shaik	08/18/2023 22:24	Juyoung Kim	2430881
	08/15/2023	08/16/2023 13:00	Hoor Shaik	08/18/2023 22:43	Juyoung Kim	2430883
	08/15/2023	08/18/2023 13:00	Hoor Shaik	08/19/2023 13:06	Juyoung Kim	2430882
SM 2320 B-2011	08/15/2023			08/17/2023 09:13	Dale L. Simmons	2430834
	08/15/2023			08/17/2023 09:28	Dale L. Simmons	2430835
	08/15/2023			08/17/2023 09:40	Dale L. Simmons	2430838
SM 2340 B-2011	08/15/2023			08/17/2023 18:34	Samatha Luckman	2430886
	08/15/2023			08/17/2023 18:42	Samatha Luckman	2430887
SM 2540 C-2015	08/15/2023			08/18/2023 16:04	Yijie Li	2430834, 2430835, 2430838
SM 2540 D-2015	08/15/2023			08/18/2023 16:04	Yijie Li	2430834, 2430835, 2430838
SM 4500-F- C-2011	08/15/2023			08/17/2023 09:13	Dale L. Simmons	2430834
	08/15/2023			08/17/2023 09:28	Dale L. Simmons	2430835
	08/15/2023			08/17/2023 09:40	Dale L. Simmons	2430838
SM 5310 B-2011	08/15/2023			08/16/2023 18:42	Elise M. Gillis	2430836
	08/15/2023			08/16/2023 18:56	Elise M. Gillis	2430837
	08/15/2023			08/16/2023 19:11	Elise M. Gillis	2430839