

Chemical Analysis Report

TLH-ROC-2022-10-31-01

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

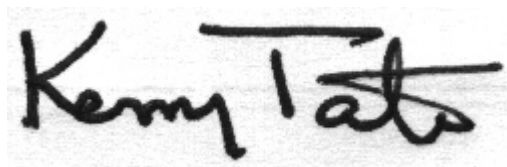
Event Description: **Run 3**
Request ID: **RQ-2022-08-01-29**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Rd
Tallahassee, FL 32399
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 21-NOV-2022 12:50

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line extending from the end of the name.

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: 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: Ichetucknee Riv 80m Upstream

Collection Date/Time: 10/31/2022 13:10

Field ID: G1TLHR0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366171	EPA 8270E	Aldrin	0.71	U	ng/L	P421853	CCV
		Alpha-BHC	0.11	U	ng/L	P421853	
		Alpha-Chlordane	0.22	U	ng/L	P421853	
		Beta-BHC	0.11	U	ng/L	P421853	
		Beta-Cyfluthrin	1.4	U	ng/L	P421853	
		Bifenthrin	0.54	U	ng/L	P421853	
		Chlorothalonil	1.4	UJ	ng/L	P421853	
		Cis-Nonachlor	0.22	U	ng/L	P421853	
		Cypermethrin	1.6	U	ng/L	P421853	
		Dacthal	0.16	U	ng/L	P421853	
		DDD-p,p'	0.27	U	ng/L	P421853	
		DDE-p,p'	0.22	U	ng/L	P421853	
		DDT-p,p'	0.27	U	ng/L	P421853	
		Delta-BHC	0.43	U	ng/L	P421853	
		Deltamethrin	1.4	U	ng/L	P421853	
		Dichlobenil	0.27	U	ng/L	P421853	
		Dicofol	1.4	U	ng/L	P421853	
		Diieldrin	0.43	U	ng/L	P421853	
		Endosulfan I	0.43	U	ng/L	P421853	
		Endosulfan II	0.43	U	ng/L	P421853	
		Endosulfan Sulfate	0.33	U	ng/L	P421853	
		Endrin	0.43	U	ng/L	P421853	
		Endrin Aldehyde	0.82	U	ng/L	P421853	
		Endrin Ketone	0.43	U	ng/L	P421853	
		Esfenvalerate	0.82	U	ng/L	P421853	
		Ethalfuralin	0.16	U	ng/L	P421853	
		Fenpropathrin	0.27	U	ng/L	P421853	
		Gamma-BHC	0.14	U	ng/L	P421853	
		Gamma-Chlordane	0.22	U	ng/L	P421853	
		Heptachlor	0.22	U	ng/L	P421853	
		Heptachlor Epoxide	0.27	U	ng/L	P421853	
		Hexachlorobenzene**	1.1	U	ng/L	P421853	
		Kepone	5.4	U	ng/L	P421853	
		Lambda-Cyhalothrin	0.82	U	ng/L	P421853	
		Methoprene	0.82	U	ng/L	P421853	
		Methoxychlor	0.33	U	ng/L	P421853	
		MGK-264	0.22	U	ng/L	P421853	
		Mirex	0.38	U	ng/L	P421853	
		Oxychlordane	0.33	U	ng/L	P421853	
		Permethrin	1.7	U	ng/L	P421853	
		Phenothrin	0.98	U	ng/L	P421853	
		Piperonyl Butoxide	0.16	U	ng/L	P421853	
		Prallethrin	2.2	U	ng/L	P421853	
		Tau-Fluvalinate	0.27	U	ng/L	P421853	

Field ID: G1TLHR0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366171	EPA 8270E	Tetramethrin	0.82	U	ng/L	P421853	
		Trans-Nonachlor	0.22	U	ng/L	P421853	
		Triclosan Methyl	0.16	U	ng/L	P421853	
		Trifluralin	0.22	U	ng/L	P421853	
	EPA 8276	Chlordane	2.2	UJ	ng/L	P421853	LCS
		Toxaphene	16	UJ	ng/L	P421853	LCS
2366172	EPA 8270E	Acetochlor	0.25	UQ	ng/L	P422125	
		Alachlor	0.25	UQ	ng/L	P422125	
		Ametryn	0.59	UQ	ng/L	P422125	
		Atrazine	0.25	UQ	ng/L	P422125	
		Atrazine Desethyl	1.5	UQ	ng/L	P422125	
		Azinphos Methyl	2.0	UQ	ng/L	P422125	
		Azoxystrobin	0.49	UQ	ng/L	P422125	
		Bromacil	0.49	UQ	ng/L	P422125	
		Butylate	0.39	UQ	ng/L	P422125	
		Caffeine**	7.4	UQ	ng/L	P422125	
		Carbophenothion	0.20	UQ	ng/L	P422125	
		Carfentrazone Ethyl	0.098	UQ	ng/L	P422125	
		Chlorfenapyr	0.17	UQ	ng/L	P422125	
		Chlorpyrifos Ethyl	0.25	UQ	ng/L	P422125	RPD
		Chlorpyrifos Methyl	0.049	UQ	ng/L	P422125	
		Coumaphos	0.49	UQ	ng/L	P422125	
		Cyanazine	3.2	UQ	ng/L	P422125	
		Cyprodinil	0.098	UQ	ng/L	P422125	
		Demeton	1.5	UQ	ng/L	P422125	
		Diazinon	0.12	UQ	ng/L	P422125	
		Difenoconazole	0.59	UQ	ng/L	P422125	
		Dimethenamid	0.098	UQ	ng/L	P422125	
		Dimethomorph	0.17	UQ	ng/L	P422125	
		Disulfoton	0.49	UQ	ng/L	P422125	
		Dithiopyr	0.61	UQ	ng/L	P422125	
		EPTC	1.2	UQ	ng/L	P422125	
		Ethion	0.15	UQ	ng/L	P422125	
		Ethoprop	0.098	UQ	ng/L	P422125	
		Etridiazole	0.15	UQ	ng/L	P422125	
		Fenamiphos	0.49	UQ	ng/L	P422125	
		Fenbuconazole	0.12	UQ	ng/L	P422125	
		Fipronil	0.25	UQ	ng/L	P422125	MS
		Fipronil Desulfinyl**	0.12	UQ	ng/L	P422125	
		Fipronil Sulfide	0.15	UQ	ng/L	P422125	
		Fipronil Sulfone	0.15	UQ	ng/L	P422125	
		Fluazifop-P-butyl	0.098	UQ	ng/L	P422125	
		Fludioxonil	0.12	UQ	ng/L	P422125	
		Flumioxazin	4.4	UQ	ng/L	P422125	
		Flutolanil	0.098	UQ	ng/L	P422125	

Field ID: G1TLHR0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366172	EPA 8270E	Fluxapyroxad	0.098	UQ	ng/L	P422125	LCS, MS
		Fonofos	0.20	UQ	ng/L	P422125	
		Hexazinone	0.49	UQ	ng/L	P422125	
		Imazalil	0.74	UQ	ng/L	P422125	
		Iprodione	0.59	UQJ	ng/L	P422125	
		Loratadine**	0.34	UQ	ng/L	P422125	
		Malathion	0.34	UQ	ng/L	P422125	
		Metaxyl	0.74	UQ	ng/L	P422125	
		Metolachlor	0.34	UQ	ng/L	P422125	
		Metribuzin	1.5	UQ	ng/L	P422125	
		Mevinphos	1.0	UQ	ng/L	P422125	
		Molinate	0.29	UQ	ng/L	P422125	
		Myclobutanil	0.25	UQ	ng/L	P422125	
		Naled	1.5	UQ	ng/L	P422125	
		Napropamide	0.39	UQ	ng/L	P422125	
		Norflurazon	0.49	UQ	ng/L	P422125	
		Oxadiazon	0.29	UQ	ng/L	P422125	
		Oxyfluorfen	0.15	UQ	ng/L	P422125	
		Parathion Ethyl	0.25	UQ	ng/L	P422125	
		Parathion Methyl	0.54	UQ	ng/L	P422125	
		Pendimethalin	0.98	UQ	ng/L	P422125	
		Phenytol**	3.4	UQ	ng/L	P422125	MS
		Phorate	0.52	UQ	ng/L	P422125	
		Prodiamine	0.17	UQ	ng/L	P422125	
		Prometon	0.88	UQ	ng/L	P422125	
		Prometryn	0.20	UQJ	ng/L	P422125	LCS, MS
		Pronamide	0.15	UQ	ng/L	P422125	
		Propanil	0.12	UQ	ng/L	P422125	
		Propargite	1.5	UQ	ng/L	P422125	
		Propiconazole	0.49	UQ	ng/L	P422125	
		Pyraflufen Ethyl	0.25	UQ	ng/L	P422125	
		Pyridaben	0.44	UQ	ng/L	P422125	
		Pyriproxyfen	0.12	UQ	ng/L	P422125	
		Simazine	0.49	UQ	ng/L	P422125	
		Stirophos	0.12	UQ	ng/L	P422125	
		Sulfentrazone	0.49	UQ	ng/L	P422125	
		Tebuconazole	0.49	UQ	ng/L	P422125	
		Terbufos	0.098	UQ	ng/L	P422125	
		Terbutylazine	0.42	UQ	ng/L	P422125	
		Thiobencarb	0.59	UQ	ng/L	P422125	
		Triadimefon	0.25	UQ	ng/L	P422125	
2366175	EPA 8321B	2,4-D	0.0020	U	ug/L	P421744	
		Acesulfame K	0.10	U	ug/L	P421714	
		2,4,5-T	0.0040	U	ug/L	P421744	
		AMPA	0.10	U	ug/L	P421714	

Field ID: G1TLHR0142

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366175	EPA 8321B	Acetaminophen	0.012	I	ug/L	P421744	MS
		Acetamiprid	0.0020	U	ug/L	P421744	
		Endothall	0.25	U	ug/L	P421714	
		Glufosinate	0.10	U	ug/L	P421714	
		Glyphosate	0.10	U	ug/L	P421714	
		Afidopyropen	0.0020	U	ug/L	P421744	
		Bentazon	8.0E-04	U	ug/L	P421744	
		Sucralose	0.013	I	ug/L	P421714	
		Benzovindiflupyr	0.0020	U	ug/L	P421744	
		Carbamazepine	8.0E-04	U	ug/L	P421744	
		Clothianidin	0.0020	U	ug/L	P421744	
		Dinotefuran	0.0020	U	ug/L	P421744	
		Diuron	0.0020	U	ug/L	P421744	
		Fenuron	0.032	U	ug/L	P421744	
		Fluridone	8.0E-04	U	ug/L	P421744	
		Imazapyr	0.0040	U	ug/L	P421744	
		Hydrocodone	0.0020	U	ug/L	P421744	
		Ibuprofen	0.20	U	ug/L	P421744	
		Imidacloprid	0.0020	U	ug/L	P421744	
		Linuron	0.0040	U	ug/L	P421744	
		Mandestrobin	0.0020	U	ug/L	P421744	
		MCPP	0.0040	U	ug/L	P421744	
		Naproxen	0.0080	U	ug/L	P421744	
		Primidone	0.0040	U	ug/L	P421744	
		Pyraclostrobin	0.0020	U	ug/L	P421744	
		Silvex	0.0040	U	ug/L	P421744	
		Thiamethoxam	0.0020	U	ug/L	P421744	
		Tolfenpyrad	0.0020	U	ug/L	P421744	
		Triclopyr	0.0040	U	ug/L	P421744	
2366186	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P421731	
	EPA 180.1 Rev. 2.0	Turbidity	0.35	I	NTU	P421733	
	EPA 300.0 Rev. 2.1	Chloride	6.5		mg Cl/L	P422460	
		Sulfate	9.6		mg SO4/L	P422464	
	SM 2320 B-2011	Total Alkalinity	150		mg CaCO3/L	P422006	
	SM 2540 C-2015	TDS	184		mg/L	P422175	
	SM 2540 D-2015	TSS	2	U	mg/L	P421962	
	SM 4500-F- C-2011	Fluoride	0.14		mg F/L	P422020	
2366187	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P422034	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.16	I	mg N/L	P421877	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.69		mg N/L	P421938	
	EPA 365.1 Rev. 2.0	Total-P	0.055		mg P/L	P422072	
	SM 5310 B-2011	Organic Carbon	0.58	I	mg C/L	P421998	
2366188	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.044		mg P/L	P421739	

Field ID: G1TLHR0142

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 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8270E: MS accuracy for atrazine and norflurazon not assessed due to high content of these parameters in the sample spiked. Sample expired for preparation due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Ichetucknee Spring group

Collection Date/Time: 10/31/2022 13:55

Field ID: G1TLHR0150

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366173	EPA 8270E	Aldrin	0.69	U	ng/L	P421853	CCV
		Alpha-BHC	0.11	U	ng/L	P421853	
		Alpha-Chlordane	0.21	U	ng/L	P421853	
		Beta-BHC	0.11	U	ng/L	P421853	
		Beta-Cyfluthrin	1.3	U	ng/L	P421853	
		Bifenthrin	0.53	U	ng/L	P421853	
		Chlorothalonil	1.3	UJ	ng/L	P421853	
		Cis-Nonachlor	0.21	U	ng/L	P421853	
		Cypermethrin	1.6	U	ng/L	P421853	
		Dacthal	0.16	U	ng/L	P421853	
		DDD-p,p'	0.27	U	ng/L	P421853	
		DDE-p,p'	0.21	U	ng/L	P421853	
		DDT-p,p'	0.27	U	ng/L	P421853	
		Delta-BHC	0.43	U	ng/L	P421853	
		Deltamethrin	1.3	U	ng/L	P421853	
		Dichlobenil	0.27	U	ng/L	P421853	
		Dicofol	1.3	U	ng/L	P421853	
		Diieldrin	0.43	U	ng/L	P421853	
		Endosulfan I	0.43	U	ng/L	P421853	
		Endosulfan II	0.43	U	ng/L	P421853	
		Endosulfan Sulfate	0.32	U	ng/L	P421853	
		Endrin	0.43	U	ng/L	P421853	
		Endrin Aldehyde	0.80	U	ng/L	P421853	
		Endrin Ketone	0.43	U	ng/L	P421853	
		Esfenvalerate	0.80	U	ng/L	P421853	
		Ethalfuralin	0.16	U	ng/L	P421853	
		Fenpropathrin	0.27	U	ng/L	P421853	
		Gamma-BHC	0.13	U	ng/L	P421853	
		Gamma-Chlordane	0.21	U	ng/L	P421853	
		Heptachlor	0.21	U	ng/L	P421853	
		Heptachlor Epoxide	0.27	U	ng/L	P421853	
		Hexachlorobenzene**	1.1	U	ng/L	P421853	
		Kepone	5.3	U	ng/L	P421853	
		Lambda-Cyhalothrin	0.80	U	ng/L	P421853	
		Methoprene	0.80	U	ng/L	P421853	
		Methoxychlor	0.32	U	ng/L	P421853	
		MGK-264	0.21	U	ng/L	P421853	
		Mirex	0.37	U	ng/L	P421853	
		Oxychlordane	0.32	U	ng/L	P421853	
		Permethrin	1.7	U	ng/L	P421853	
		Phenothrin	0.96	U	ng/L	P421853	
		Piperonyl Butoxide	0.16	U	ng/L	P421853	
		Prallethrin	2.1	U	ng/L	P421853	
		Tau-Fluvalinate	0.27	U	ng/L	P421853	

Field ID: G1TLHR0150

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366173	EPA 8270E	Tetramethrin	0.80	U	ng/L	P421853	
		Trans-Nonachlor	0.21	U	ng/L	P421853	
		Triclosan Methyl	0.16	U	ng/L	P421853	
		Trifluralin	0.21	U	ng/L	P421853	
	EPA 8276	Chlordane	2.1	UJ	ng/L	P421853	LCS
2366174	EPA 8270E	Toxaphene	16	UJ	ng/L	P421853	LCS
		Acetochlor	0.24	UQ	ng/L	P422125	
		Alachlor	0.24	UQ	ng/L	P422125	
		Ametryn	0.58	UQ	ng/L	P422125	
		Atrazine	0.24	UQ	ng/L	P422125	
		Atrazine Desethyl	1.4	UQ	ng/L	P422125	
		Azinphos Methyl	1.9	UQ	ng/L	P422125	
		Azoxystrobin	0.48	UQ	ng/L	P422125	
		Bromacil	0.48	UQ	ng/L	P422125	
		Butylate	0.38	UQ	ng/L	P422125	
		Caffeine**	16	IQ	ng/L	P422125	
		Carbophenothion	0.19	UQ	ng/L	P422125	
		Carfentrazone Ethyl	0.096	UQ	ng/L	P422125	
		Chlorfenapyr	0.17	UQ	ng/L	P422125	
		Chlorpyrifos Ethyl	0.24	UQ	ng/L	P422125	RPD
		Chlorpyrifos Methyl	0.048	UQ	ng/L	P422125	
		Coumaphos	0.48	UQ	ng/L	P422125	
		Cyanazine	3.1	UQ	ng/L	P422125	
		Cyprodinil	0.096	UQ	ng/L	P422125	
		Demeton	1.4	UQ	ng/L	P422125	
		Diazinon	0.12	UQ	ng/L	P422125	
		Difenoconazole	0.58	UQ	ng/L	P422125	
		Dimethenamid	0.096	UQ	ng/L	P422125	
		Dimethomorph	0.17	UQ	ng/L	P422125	
		Disulfoton	0.48	UQ	ng/L	P422125	
		Dithiopyr	0.60	UQ	ng/L	P422125	
		EPTC	1.2	UQ	ng/L	P422125	
		Ethion	0.14	UQ	ng/L	P422125	
		Ethoprop	0.096	UQ	ng/L	P422125	
		Etridiazole	0.14	UQ	ng/L	P422125	
		Fenamiphos	0.48	UQ	ng/L	P422125	
		Fenbuconazole	0.12	UQ	ng/L	P422125	
		Fipronil	0.24	UQ	ng/L	P422125	MS
		Fipronil Desulfinyl**	0.12	UQ	ng/L	P422125	
		Fipronil Sulfide	0.14	UQ	ng/L	P422125	
		Fipronil Sulfone	0.14	UQ	ng/L	P422125	
		Fluazifop-P-butyl	0.096	UQ	ng/L	P422125	
		Fludioxonil	0.12	UQ	ng/L	P422125	
		Flumioxazin	4.3	UQ	ng/L	P422125	
		Flutolanil	0.096	UQ	ng/L	P422125	

Field ID: G1TLHR0150

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366174	EPA 8270E	Fluxapyroxad	0.096	UQ	ng/L	P422125	LCS, MS
		Fonofos	0.19	UQ	ng/L	P422125	
		Hexazinone	0.61	IQ	ng/L	P422125	
		Imazalil	0.72	UQ	ng/L	P422125	
		Iprodione	0.58	UQJ	ng/L	P422125	
		Loratadine**	0.34	UQ	ng/L	P422125	
		Malathion	0.34	UQ	ng/L	P422125	
		Metaxyl	0.72	UQ	ng/L	P422125	
		Metolachlor	0.34	UQ	ng/L	P422125	
		Metribuzin	1.4	UQ	ng/L	P422125	
		Mevinphos	1.0	UQ	ng/L	P422125	
		Molinate	0.29	UQ	ng/L	P422125	
		Myclobutanil	0.24	UQ	ng/L	P422125	
		Naled	1.4	UQ	ng/L	P422125	
		Napropamide	0.38	UQ	ng/L	P422125	
		Norflurazon	0.89	IQ	ng/L	P422125	
		Oxadiazon	0.29	UQ	ng/L	P422125	
		Oxyfluorfen	0.14	UQ	ng/L	P422125	
		Parathion Ethyl	0.24	UQ	ng/L	P422125	
		Parathion Methyl	0.53	UQ	ng/L	P422125	
		Pendimethalin	0.96	UQ	ng/L	P422125	MS
		Phenytol**	3.4	UQ	ng/L	P422125	
		Phorate	0.50	UQ	ng/L	P422125	
		Prodiamine	0.17	UQ	ng/L	P422125	
		Prometon	0.86	UQ	ng/L	P422125	
		Prometryn	0.19	UQJ	ng/L	P422125	LCS, MS
		Pronamide	0.14	UQ	ng/L	P422125	
		Propanil	0.12	UQ	ng/L	P422125	
		Propargite	1.4	UQ	ng/L	P422125	
		Propiconazole	0.48	UQ	ng/L	P422125	
2366176	EPA 8321B	Pyraflufen Ethyl	0.24	UQ	ng/L	P422125	
		Pyridaben	0.43	UQ	ng/L	P422125	
		Pyriproxyfen	0.12	UQ	ng/L	P422125	
		Simazine	0.48	UQ	ng/L	P422125	
		Stirophos	0.12	UQ	ng/L	P422125	
		Sulfentrazone	0.48	UQ	ng/L	P422125	
		Tebuconazole	0.48	UQ	ng/L	P422125	
		Terbufos	0.096	UQ	ng/L	P422125	
		Terbuthylazine	0.41	UQ	ng/L	P422125	
		Thiobencarb	0.58	UQ	ng/L	P422125	
		Triadimefon	0.24	UQ	ng/L	P422125	
		2,4-D	0.0020	U	ug/L	P421744	
		Acesulfame K	0.10	U	ug/L	P421714	
		2,4,5-T	0.0040	U	ug/L	P421744	
		AMPA	0.10	U	ug/L	P421714	

Field ID: G1TLHR0150

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366176	EPA 8321B	Acetaminophen	0.021	I	ug/L	P421744	
		Acetamiprid	0.0020	U	ug/L	P421744	
		Endothall	0.25	U	ug/L	P421714	MS
		Glufosinate	0.10	U	ug/L	P421714	
		Glyphosate	0.10	U	ug/L	P421714	
		Afidopyropen	0.0020	U	ug/L	P421744	
		Bentazon	8.0E-04	U	ug/L	P421744	
		Sucralose	0.011	I	ug/L	P421714	
		Benzovindiflupyr	0.0020	U	ug/L	P421744	
		Carbamazepine	8.0E-04	U	ug/L	P421744	
		Clothianidin	0.0020	U	ug/L	P421744	
		Dinotefuran	0.0020	U	ug/L	P421744	
		Diuron	0.0020	U	ug/L	P421744	
		Fenuron	0.032	U	ug/L	P421744	
		Fluridone	8.0E-04	U	ug/L	P421744	
		Imazapyr	0.0040	U	ug/L	P421744	
		Hydrocodone	0.0020	U	ug/L	P421744	
		Ibuprofen	0.20	U	ug/L	P421744	
		Imidacloprid	0.0020	U	ug/L	P421744	
		Linuron	0.0040	U	ug/L	P421744	
		Mandestrobin	0.0020	U	ug/L	P421744	
		MCPP	0.0040	U	ug/L	P421744	
		Naproxen	0.0080	U	ug/L	P421744	
		Primidone	0.0040	U	ug/L	P421744	
		Pyraclostrobin	0.0020	U	ug/L	P421744	
		Silvex	0.0040	U	ug/L	P421744	
		Thiamethoxam	0.0020	U	ug/L	P421744	
		Tolfenpyrad	0.0020	U	ug/L	P421744	
		Triclopyr	0.0040	U	ug/L	P421744	

Ref. Method and Comment:

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

EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for atrazine and norflurazon not assessed due to high content of these parameters in the sample spiked. Sample expired for preparation due to need for re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Telford Spring

Collection Date/Time: 10/31/2022 11:40

Field ID: G1TLHR0141

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2366166	DEP SOP: NU-094-1	Color (true)	5.6	I	PCU	P421731	
	EPA 180.1 Rev. 2.0	Turbidity	0.20	I	NTU	P421733	
	EPA 300.0 Rev. 2.1	Chloride	7.7		mg Cl/L	P422460	
		Sulfate	49		mg SO4/L	P422464	
	SM 2320 B-2011	Total Alkalinity	192	A	mg CaCO3/L	P422006	
	SM 2540 C-2015	TDS	284		mg/L	P422175	
	SM 2540 D-2015	TSS	2	I	mg/L	P421962	
	SM 4500-F- C-2011	Fluoride	0.22		mg F/L	P422020	
2366167	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P422034	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.14	I	mg N/L	P421877	
	EPA 353.2 Rev. 2.0	NO2NO3-N	4.3		mg N/L	P422060	
	EPA 365.1 Rev. 2.0	Total-P	0.050		mg P/L	P422072	
	SM 5310 B-2011	Organic Carbon	0.67	I	mg C/L	P421998	
2366168	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.048		mg P/L	P421739	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P421731

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421733

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422460

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422464

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422034

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421877

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421938

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422060

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422072

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P421739

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

Reference Method: EPA 8270E
Batch ID: P421853

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P421853

Component	Result	Code	Units
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422125

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422125

Component	Result	Code	Units
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422125

Component	Result	Code	Units
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiatone	0.18	U	ng/L
Prodiatone	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronatone	0.15	U	ng/L
Pronatone	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazole	0.50	U	ng/L
Sulfentrazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422125

Component	Result	Code	Units
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8276

Batch ID: P421853

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: P421714

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: P421744

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P421744

Component	Result	Code	Units
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P422006

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

Reference Method: SM 2540 C-2015
Batch ID: P422175

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P421962

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P422020

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P421998

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: P421731

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: P421733

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422460

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	96.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422464

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422034

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421877

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421938

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422060

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422072

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P421739

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

Reference Method: EPA 8270E
Batch ID: P421853

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	58.5		P	10 - 92.0
Alpha-BHC	88.2		P	75 - 107
Alpha-Chlordane	85.2		P	50 - 108
Beta-BHC	109		P	36 - 138
Beta-Cyfluthrin	83.4		P	20 - 161
Bifenthrin	59.5		P	10 - 119
Chlorothalonil	153		P	26 - 186
Cis-Nonachlor	75.4		P	42 - 119
Cypermethrin	90.6		P	22 - 150
Dacthal	87.6		P	72 - 119
DDD-p,p'	77.7		P	45 - 107
DDE-p,p'	77.2		P	48 - 106
DDT-p,p'	74.2		P	48 - 110
Delta-BHC	135		P	54 - 140
Deltamethrin	109		P	22 - 189
Dichlobenil	92.1		P	36 - 117
Dicofol	72.0		P	46 - 155
Dieldrin	80.8		P	54 - 110
Endosulfan I	77.8		P	59 - 105
Endosulfan II	94.1		P	51 - 118
Endosulfan Sulfate	107		P	57 - 121
Endrin	78.6		P	10 - 120
Endrin Aldehyde	85.7		P	34 - 118
Endrin Ketone	86.0		P	69 - 177
Esfenvalerate	92.8		P	23 - 168
Ethalfuralin	74.4		P	49 - 99.0
Fenpropathrin	83.7		P	34 - 117
Gamma-BHC	93.5		P	72 - 117
Gamma-Chlordane	79.6		P	43 - 106
Heptachlor	68.0		P	41 - 98.0
Heptachlor Epoxide	76.2		P	57 - 106
Hexachlorobenzene	78.6		P	36 - 99.0
Kepone	94.9		P	16 - 215
Lambda-Cyhalothrin	78.7		P	21 - 177
Methoprene	61.6		P	10 - 119
Methoxychlor	78.0		P	60 - 112
MGK-264	91.4		P	26 - 122
Mirex	61.9		P	10 - 169
Oxychlordane	66.4		P	43 - 105
Permethrin	83.5		P	24 - 148
Phenothrin	61.5		P	10 - 106
Piperonyl Butoxide	84.9		P	10 - 139
Prallethrin	87.7		P	17 - 109
Tau-Fluvalinate	81.2		P	13 - 131
Tetramethrin	112		P	10 - 132
Trans-Nonachlor	72.8		P	44 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P421853

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclosan Methyl	77.3		P	59 - 109
Trifluralin	69.2		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P422125

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	107		P	69 - 123
Alachlor	85.3		P	65 - 118
Ametryn	107		P	58 - 141
Atrazine	103		P	73 - 118
Atrazine Desethyl	77.9		P	32 - 125
Azinphos Methyl	155		P	36 - 197
Azoxystrobin	109		P	58 - 226
Bromacil	119		P	48 - 120
Butylate	62.5		P	27 - 85.0
Caffeine	78.2		P	40 - 137
Carbophenothion	110		P	54 - 132
Carfentrazone Ethyl	114		P	60 - 142
Chlorfenapyr	107		P	53 - 117
Chlorpyrifos Ethyl	92.9		P	59 - 116
Chlorpyrifos Methyl	104		P	66 - 119
Coumaphos	103		P	11 - 234
Cyanazine	204		P	61 - 248
Cyprodinil	123		P	50 - 147
Demeton	92.7		P	30 - 138
Diazinon	94.6		P	67 - 126
Difenoconazole	93.1		P	38 - 205
Dimethenamid	81.1		P	57 - 111
Dimethomorph	106		P	16 - 212
Disulfoton	104		P	46 - 126
Dithiopyr	100		P	62 - 115
EPTC	60.1		P	28 - 80.0
Ethion	75.7		P	24 - 122
Ethoprop	108		P	62 - 113
Etridiazole	85.3		P	28 - 92.0
Fenamiphos	111		P	57 - 128
Fenbuconazole	84.8		P	52 - 155
Fipronil	94.1		P	63 - 130
Fipronil Desulfinyl	97.7		P	61 - 130
Fipronil Sulfide	84.2		P	56 - 117
Fipronil Sulfone	87.8		P	52 - 118
Fluazifop-P-butyl	106		P	61 - 128
Fludioxonil	100		P	59 - 129
Flumioxazin	95.4		P	30 - 250
Flutolanil	100		P	53 - 127
Fluxapyroxad	108		P	42 - 132
Fonofos	90.9		P	61 - 110
Hexazinone	106		P	46 - 139
Imazalil	83.6		P	40 - 139
Iprodione	243		F	40 - 146
Loratadine	87.2		P	10 - 224

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P422125

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Malathion	111		P	61 - 135
Metalaxyl	92.9		P	58 - 121
Metolachlor	114		P	64 - 118
Metribuzin	98.8		P	45 - 245
Mevinphos	88.5		P	49 - 118
Molinate	80.0		P	42 - 92.0
Myclobutanil	112		P	55 - 127
Naled	76.6		P	10 - 114
Napropamide	94.1		P	39 - 121
Norflurazon	103		P	55 - 129
Oxadiazon	97.8		P	54 - 115
Oxyfluorfen	118		P	64 - 139
Parathion Ethyl	107		P	70 - 111
Parathion Methyl	129		P	76 - 136
Pendimethalin	104		P	52 - 118
Phenytoin	145		P	10 - 162
Phorate	66.9		P	40 - 122
Prodiamine	87.0		P	26 - 141
Prometon	100		P	54 - 122
Prometryn	134		F	61 - 128
Pronamide	119		P	72 - 121
Propanil	96.5		P	45 - 144
Propargite	143		P	10 - 199
Propiconazole	105		P	56 - 127
Pyraflufen Ethyl	97.8		P	56 - 140
Pyridaben	137		P	26 - 211
Pyriproxyfen	161		P	33 - 194
Simazine	107		P	67 - 121
Stirophos	117		P	20 - 142
Sulfentrazone	83.9		P	21 - 144
Tebuconazole	110		P	10 - 122
Terbufos	118		P	60 - 129
Terbutylazine	105		P	69 - 113
Thiobencarb	111		P	51 - 120
Triadimefon	96.9		P	56 - 114

Reference Method: EPA 8276

Batch ID: P421853

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	140		F	61 - 116
Toxaphene	130		F	48 - 124

Reference Method: EPA 8321B

Batch ID: P421714

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	90.2		P	40 - 150
AMPA	116		P	40 - 150
Endothall	101		P	40 - 150
Glufosinate	104		P	40 - 150
Glyphosate	103		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P421714

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	83.0		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P421744

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	78.0		P	40 - 150
2,4,5-T	65.3		P	40 - 150
Acetaminophen	98.6		P	30 - 150
Acetamiprid	86.4		P	40 - 150
Afidopyropen	70.5		P	30 - 150
Bentazon	104		P	30 - 150
Benzovindiflupyr	89.0		P	40 - 150
Carbamazepine	93.0		P	40 - 150
Clothianidin	108		P	40 - 150
Dinotefuran	110		P	40 - 150
Diuron	84.6		P	40 - 150
Fenuron	110		P	40 - 150
Fluridone	93.7		P	40 - 150
Hydrocodone	103		P	40 - 150
Ibuprofen	73.8		P	40 - 150
Imazapyr	84.4		P	40 - 150
Imidacloprid	102		P	40 - 150
Linuron	98.5		P	40 - 150
Mandestrobin	90.3		P	40 - 150
MCPP	84.7		P	40 - 150
Naproxen	56.9		P	40 - 150
Primidone	99.1		P	40 - 150
Pyraclostrobin	79.2		P	40 - 150
Silvex	62.1		P	40 - 150
Thiamethoxam	102		P	40 - 150
Tolfenpyrad	41.6		P	30 - 150
Triclopyr	61.4		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P422006

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.0		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P422175

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

Reference Method: SM 2540 D-2015
Batch ID: P421962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	97.7		P	85 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P422020

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P421998

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422460

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366091	Chloride	100		P	90 - 110
2366215	Chloride	99.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422464

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366091	Sulfate	102		P	90 - 110
2366215	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422034

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366167	Ammonia-N	100	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421938

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366072	NO2NO3-N	108	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422060

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366629	NO2NO3-N	107	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422072

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366154	Total-P	107	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P421739

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366168	O-Phosphate-P	99.2	98.6	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P421853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366171	Aldrin	51.6	50.0	P/P	20 - 82.0
2366171	Alpha-BHC	85.0	80.9	P/P	71 - 109
2366171	Alpha-Chlordane	80.9	77.7	P/P	42 - 106
2366171	Beta-BHC	107	98.0	P/P	69 - 180
2366171	Beta-Cyfluthrin	74.8	68.5	P/P	18 - 175
2366171	Bifenthrin	52.4	48.7	P/P	21 - 128
2366171	Chlorothalonil	183	166	P/P	10 - 300
2366171	Cis-Nonachlor	69.1	67.9	P/P	34 - 106

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P421853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366171	Cypermethrin	80.3	70.7	P/P	22 - 158
2366171	Dacthal	84.9	80.5	P/P	54 - 116
2366171	DDD-p,p'	76.9	74.6	P/P	34 - 107
2366171	DDE-p,p'	71.6	73.6	P/P	33 - 110
2366171	DDT-p,p'	70.1	70.1	P/P	50 - 122
2366171	Delta-BHC	127	117	P/P	77 - 193
2366171	Deltamethrin	92.2	93.3	P/P	10 - 195
2366171	Dichlobenil	85.7	80.4	P/P	25 - 113
2366171	Dicofol	70.2	68.8	P/P	38 - 247
2366171	Dieldrin	72.3	74.8	P/P	45 - 118
2366171	Endosulfan I	71.8	71.7	P/P	51 - 106
2366171	Endosulfan II	84.8	84.6	P/P	37 - 122
2366171	Endosulfan Sulfate	103	93.4	P/P	43 - 132
2366171	Endrin	75.2	75.7	P/P	29 - 101
2366171	Endrin Aldehyde	77.5	80.3	P/P	19 - 110
2366171	Endrin Ketone	67.0	64.4	P/P	60 - 140
2366171	Esfenvalerate	75.9	78.9	P/P	26 - 199
2366171	Ethalfuralin	70.2	67.7	P/P	45 - 99.0
2366171	Fenpropathrin	78.0	69.2	P/P	35 - 120
2366171	Gamma-BHC	78.4	81.9	P/P	63 - 128
2366171	Gamma-Chlordane	81.7	72.4	P/P	40 - 104
2366171	Heptachlor	59.5	59.7	P/P	36 - 97.0
2366171	Heptachlor Epoxide	71.6	73.3	P/P	49 - 184
2366171	Hexachlorobenzene	76.9	70.3	P/P	39 - 96.0
2366171	Kepone	93.9	79.0	P/P	10 - 217
2366171	Lambda-Cyhalothrin	72.1	66.2	P/P	21 - 193
2366171	Methoprene	52.5	53.3	P/P	20 - 106
2366171	Methoxychlor	76.5	69.0	P/P	53 - 118
2366171	MGK-264	84.8	86.3	P/P	40 - 118
2366171	Mirex	56.0	52.2	P/P	26 - 92.0
2366171	Oxychlordane	60.4	70.3	P/P	44 - 99.0
2366171	Permethrin	72.2	68.1	P/P	33 - 182
2366171	Phenothrin	57.1	55.9	P/P	10 - 129
2366171	Piperonyl Butoxide	70.5	72.4	P/P	10 - 211
2366171	Prallethrin	79.2	83.5	P/P	24 - 113
2366171	Tau-Fluvalinate	70.8	71.7	P/P	14 - 149
2366171	Tetramethrin	96.3	98.4	P/P	17 - 151
2366171	Trans-Nonachlor	60.2	68.6	P/P	42 - 102
2366171	Triclosan Methyl	74.5	74.4	P/P	48 - 108
2366171	Trifluralin	70.6	66.7	P/P	47 - 96.0

Reference Method: EPA 8270E
Batch ID: P422125

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367538	Acetochlor	99.6	91.5	P/P	67 - 124
2367538	Alachlor	86.7	74.5	P/P	60 - 120
2367538	Ametryn	112	101	P/P	54 - 216
2367538	Atrazine Desethyl	75.8	65.2	P/P	15 - 122
2367538	Azinphos Methyl	145	140	P/P	40 - 292
2367538	Azoxystrobin	130	129	P/P	35 - 220
2367538	Bromacil	125	125	P/P	45 - 127

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P422125

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367538	Butylate	52.8	42.0	P/P	20 - 83.0
2367538	Caffeine	85.9	87.9	P/P	10 - 194
2367538	Carbophenothion	123	116	P/P	57 - 127
2367538	Carfentrazone Ethyl	128	117	P/P	51 - 141
2367538	Chlorfenapyr	101	106	P/P	46 - 111
2367538	Chlorpyrifos Ethyl	82.2	115	P/P	52 - 120
2367538	Chlorpyrifos Methyl	102	102	P/P	63 - 119
2367538	Coumaphos	110	97.6	P/P	10 - 228
2367538	Cyanazine	212	220	P/P	59 - 241
2367538	Cyprodinil	125	111	P/P	47 - 146
2367538	Demeton	131	115	P/P	40 - 136
2367538	Diazinon	88.8	85.6	P/P	69 - 132
2367538	Difenoconazole	103	89.9	P/P	57 - 258
2367538	Dimethenamid	79.4	74.3	P/P	54 - 110
2367538	Dimethomorph	135	115	P/P	28 - 210
2367538	Disulfoton	104	91.2	P/P	43 - 133
2367538	Dithiopyr	115	96.3	P/P	39 - 116
2367538	EPTC	55.2	40.6	P/P	20 - 78.0
2367538	Ethion	71.7	68.6	P/P	17 - 119
2367538	Ethoprop	117	115	P/P	66 - 120
2367538	Etridiazole	83.0	75.0	P/P	28 - 96.0
2367538	Fenamiphos	113	96.1	P/P	41 - 126
2367538	Fenbuconazole	114	85.0	P/P	42 - 169
2367538	Fipronil	139	126	F/P	61 - 132
2367538	Fipronil Desulfinyl	101	102	P/P	56 - 132
2367538	Fipronil Sulfide	96.9	90.4	P/P	48 - 119
2367538	Fipronil Sulfone	128	119	P/P	42 - 131
2367538	Fluazifop-P-butyl	105	110	P/P	53 - 131
2367538	Fludioxonil	111	93.9	P/P	56 - 127
2367538	Flumioxazin	89.5	90.7	P/P	19 - 300
2367538	Flutolanil	106	98.0	P/P	41 - 127
2367538	Fluxapyroxad	115	97.6	P/P	42 - 172
2367538	Fonofos	90.4	76.2	P/P	59 - 113
2367538	Hexazinone	113	103	P/P	66 - 122
2367538	Imazalil	102	98.3	P/P	21 - 283
2367538	Iprodione	266	248	F/F	43 - 150
2367538	Loratadine	92.1	85.3	P/P	23 - 201
2367538	Malathion	102	101	P/P	58 - 136
2367538	Metalaxyl	89.2	91.0	P/P	55 - 120
2367538	Metolachlor	119	119	P/P	57 - 121
2367538	Metribuzin	117	117	P/P	58 - 294
2367538	Mevinphos	99.5	87.3	P/P	50 - 126
2367538	Molinate	80.9	74.8	P/P	42 - 93.0
2367538	Myclobutanil	122	102	P/P	55 - 125
2367538	Naled	110	81.1	P/P	18 - 200
2367538	Napropamide	98.4	89.7	P/P	39 - 110
2367538	Oxadiazon	94.2	87.0	P/P	43 - 112
2367538	Oxyfluorfen	121	122	P/P	64 - 153
2367538	Parathion Ethyl	107	104	P/P	69 - 114
2367538	Parathion Methyl	134	125	P/P	79 - 139
2367538	Pendimethalin	119	99.6	P/P	50 - 139
2367538	Phenytol	116	157	P/F	10 - 146

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P422125

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367538	Phorate	89.8	73.9	P/P	54 - 161
2367538	Prodiamine	75.5	78.3	P/P	30 - 161
2367538	Prometon	118	100	P/P	45 - 134
2367538	Prometryn	143	149	F/F	45 - 137
2367538	Pronamide	119	123	P/P	65 - 133
2367538	Propanil	91.5	96.8	P/P	49 - 142
2367538	Propargite	149	144	P/P	10 - 203
2367538	Propiconazole	112	93.8	P/P	38 - 146
2367538	Pyraflufen Ethyl	103	95.1	P/P	34 - 153
2367538	Pyridaben	167	144	P/P	12 - 192
2367538	Pyriproxyfen	139	164	P/P	33 - 180
2367538	Simazine	109	115	P/P	51 - 157
2367538	Stiropfos	113	126	P/P	10 - 128
2367538	Sulfentrazone	98.6	87.3	P/P	53 - 186
2367538	Tebuconazole	122	114	P/P	10 - 133
2367538	Terbufos	126	114	P/P	65 - 139
2367538	Terbutylazine	103	99.3	P/P	66 - 117
2367538	Thiobencarb	108	117	P/P	51 - 119
2367538	Triadimefon	91.3	113	P/P	48 - 119

Reference Method: EPA 8276

Batch ID: P421853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366173	Chlordane	119	120	P/P	53 - 126
2366173	Toxaphene	116	115	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P421714

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366047	Acesulfame K	76.5	77.7	P/P	40 - 150
2366047	AMPA	85.9	92.7	P/P	40 - 150
2366047	Endothall	193	193	F/F	40 - 150
2366047	Glufosinate	81.1	90.0	P/P	40 - 150
2366047	Glyphosate	85.5	95.0	P/P	40 - 150
2366047	Sucralose	92.2	94.6	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P421744

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366175	2,4-D	81.1	106	P/P	40 - 150
2366175	2,4,5-T	66.7	79.3	P/P	40 - 150
2366175	Acetaminophen	106	108	P/P	30 - 150
2366175	Acetamiprid	85.2	105	P/P	40 - 150
2366175	Afidopyropen	67.8	78.2	P/P	30 - 150
2366175	Bentazon	103	115	P/P	30 - 150
2366175	Benzovindiflupyr	102	106	P/P	40 - 150
2366175	Carbamazepine	110	107	P/P	40 - 150
2366175	Clothianidin	118	140	P/P	40 - 150
2366175	Dinotefuran	121	131	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P421744

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366175	Diuron	91.2	94.9	P/P	40 - 150
2366175	Fenuron	114	127	P/P	40 - 150
2366175	Fluridone	113	113	P/P	40 - 150
2366175	Hydrocodone	114	132	P/P	40 - 150
2366175	Ibuprofen	75.2	93.0	P/P	40 - 150
2366175	Imazapyr	102	115	P/P	40 - 150
2366175	Imidacloprid	112	118	P/P	40 - 150
2366175	Linuron	97.8	94.9	P/P	40 - 150
2366175	Mandestrobin	94.4	104	P/P	40 - 150
2366175	MCP	95.6	111	P/P	40 - 150
2366175	Naproxen	80.3	79.0	P/P	40 - 150
2366175	Primidone	98.9	119	P/P	40 - 150
2366175	Pyraclostrobin	95.8	98.8	P/P	40 - 150
2366175	Silvex	66.8	75.0	P/P	40 - 150
2366175	Thiamethoxam	118	126	P/P	40 - 150
2366175	Tolfenpyrad	54.8	51.4	P/P	30 - 150
2366175	Triclopyr	66.7	80.8	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P422020

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366166	Fluoride	102	102	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P421998

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366238	Organic Carbon	97.8	98.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P421731

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366195	Color (true)	0.362	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421733

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366195	Turbidity	17.0	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422460

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366091	Chloride	0.535	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422464

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366091	Sulfate	0.417	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422034

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366167	Ammonia-N	1.19	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366203	Kjeldahl Nitrogen	3.33	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P421938

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366072	NO2NO3-N	0.371	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422060

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366629	NO2NO3-N	0.800	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P422072

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366154	Total-P	0.796	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P421739

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366168	O-Phosphate-P	0.407	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P421853

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366171	Aldrin	3.04	Spike	P	0 - 41
2366171	Alpha-BHC	4.85	Spike	P	0 - 25
2366171	Alpha-Chlordane	4.05	Spike	P	0 - 33
2366171	Beta-BHC	8.44	Spike	P	0 - 36
2366171	Beta-Cyfluthrin	8.81	Spike	P	0 - 42
2366171	Bifenthrin	7.37	Spike	P	0 - 53
2366171	Chlorothalonil	9.69	Spike	P	0 - 71
2366171	Cis-Nonachlor	1.71	Spike	P	0 - 29
2366171	Cypermethrin	12.8	Spike	P	0 - 40
2366171	Dacthal	5.28	Spike	P	0 - 26
2366171	DDD-p,p'	3.07	Spike	P	0 - 39
2366171	DDE-p,p'	2.74	Spike	P	0 - 33
2366171	DDT-p,p'	0.0201	Spike	P	0 - 40
2366171	Delta-BHC	8.58	Spike	P	0 - 37
2366171	Deltamethrin	1.22	Spike	P	0 - 100
2366171	Dichlobenil	6.46	Spike	P	0 - 40
2366171	Dicofol	2.09	Spike	P	0 - 31
2366171	Dieldrin	3.43	Spike	P	0 - 27
2366171	Endosulfan I	0.125	Spike	P	0 - 23
2366171	Endosulfan II	0.276	Spike	P	0 - 28
2366171	Endosulfan Sulfate	9.37	Spike	P	0 - 38
2366171	Endrin	0.619	Spike	P	0 - 63
2366171	Endrin Aldehyde	3.65	Spike	P	0 - 60
2366171	Endrin Ketone	3.83	Spike	P	0 - 37
2366171	Esfenvalerate	3.86	Spike	P	0 - 52
2366171	Ethalfuralin	3.68	Spike	P	0 - 23
2366171	Fenpropathrin	11.9	Spike	P	0 - 32
2366171	Gamma-BHC	4.37	Spike	P	0 - 17
2366171	Gamma-Chlordane	12.0	Spike	P	0 - 40
2366171	Heptachlor	0.286	Spike	P	0 - 29
2366171	Heptachlor Epoxide	2.35	Spike	P	0 - 25
2366171	Hexachlorobenzene	9.03	Spike	P	0 - 36
2366171	Kepone	17.2	Spike	P	0 - 93
2366171	Lambda-Cyhalothrin	8.51	Spike	P	0 - 55
2366171	Methoprene	1.46	Spike	P	0 - 53
2366171	Methoxychlor	10.2	Spike	P	0 - 29
2366171	MGK-264	1.77	Spike	P	0 - 35

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P421853

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366171	Mirex	7.09	Spike	P	0 - 46
2366171	Oxychlordane	15.1	Spike	P	0 - 29
2366171	Permethrin	5.72	Spike	P	0 - 44
2366171	Phenothrin	2.08	Spike	P	0 - 56
2366171	Piperonyl Butoxide	2.68	Spike	P	0 - 100
2366171	Prallethrin	5.26	Spike	P	0 - 42
2366171	Tau-Fluvalinate	1.27	Spike	P	0 - 54
2366171	Tetramethrin	2.14	Spike	P	0 - 51
2366171	Trans-Nonachlor	13.1	Spike	P	0 - 37
2366171	Triclosan Methyl	0.212	Spike	P	0 - 31
2366171	Trifluralin	5.80	Spike	P	0 - 30

Reference Method: EPA 8270E

Batch ID: P422125

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367538	Acetochlor	8.44	Spike	P	0 - 28
2367538	Alachlor	15.2	Spike	P	0 - 30
2367538	Ametryn	6.92	Spike	P	0 - 32
2367538	Atrazine	5.42	Spike	P	0 - 41
2367538	Atrazine Desethyl	11.8	Spike	P	0 - 36
2367538	Azinphos Methyl	3.09	Spike	P	0 - 75
2367538	Azoxystrobin	1.00	Spike	P	0 - 39
2367538	Bromacil	0.0178	Spike	P	0 - 33
2367538	Butylate	22.8	Spike	P	0 - 44
2367538	Caffeine	2.26	Spike	P	0 - 74
2367538	Carbophenothion	5.46	Spike	P	0 - 25
2367538	Carfentrazone Ethyl	8.98	Spike	P	0 - 27
2367538	Chlorfenapyr	5.15	Spike	P	0 - 24
2367538	Chlorpyrifos Ethyl	32.9	Spike	F	0 - 26
2367538	Chlorpyrifos Methyl	0.775	Spike	P	0 - 26
2367538	Coumaphos	11.7	Spike	P	0 - 28
2367538	Cyanazine	3.90	Spike	P	0 - 48
2367538	Cyprodinil	11.5	Spike	P	0 - 29
2367538	Demeton	13.3	Spike	P	0 - 33
2367538	Diazinon	3.63	Spike	P	0 - 29
2367538	Difenoconazole	14.0	Spike	P	0 - 34
2367538	Dimethenamid	6.58	Spike	P	0 - 39
2367538	Dimethomorph	16.2	Spike	P	0 - 51
2367538	Disulfoton	13.1	Spike	P	0 - 30
2367538	Dithiopyr	18.1	Spike	P	0 - 26
2367538	EPTC	30.6	Spike	P	0 - 43
2367538	Ethion	4.42	Spike	P	0 - 79
2367538	Ethoprop	2.20	Spike	P	0 - 29
2367538	Etridiazole	10.1	Spike	P	0 - 33
2367538	Fenamiphos	16.3	Spike	P	0 - 40
2367538	Fenbuconazole	29.3	Spike	P	0 - 74
2367538	Fipronil	10.1	Spike	P	0 - 29
2367538	Fipronil Desulfinyl	0.389	Spike	P	0 - 32
2367538	Fipronil Sulfide	6.88	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P422125

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367538	Fipronil Sulfone	6.87	Spike	P	0 - 33
2367538	Fluazifop-P-butyl	4.81	Spike	P	0 - 38
2367538	Fludioxonil	16.5	Spike	P	0 - 29
2367538	Flumioxazin	1.35	Spike	P	0 - 51
2367538	Flutolanil	8.07	Spike	P	0 - 25
2367538	Fluxapyroxad	14.5	Spike	P	0 - 45
2367538	Fonofos	17.0	Spike	P	0 - 27
2367538	Hexazinone	5.13	Spike	P	0 - 30
2367538	Imazalil	3.96	Spike	P	0 - 100
2367538	Iprodione	6.84	Spike	P	0 - 33
2367538	Loratadine	7.73	Spike	P	0 - 56
2367538	Malathion	0.579	Spike	P	0 - 37
2367538	Metalaxyl	1.90	Spike	P	0 - 40
2367538	Metolachlor	0.366	Spike	P	0 - 29
2367538	Metribuzin	0.520	Spike	P	0 - 45
2367538	Mevinphos	13.1	Spike	P	0 - 29
2367538	Molinate	7.87	Spike	P	0 - 33
2367538	Myclobutanil	16.8	Spike	P	0 - 26
2367538	Naled	30.5	Spike	P	0 - 37
2367538	Napropamide	9.24	Spike	P	0 - 44
2367538	Norflurazon	13.8	Spike	P	0 - 30
2367538	Oxadiazon	6.28	Spike	P	0 - 28
2367538	Oxyfluorfen	0.736	Spike	P	0 - 28
2367538	Parathion Ethyl	3.15	Spike	P	0 - 31
2367538	Parathion Methyl	6.46	Spike	P	0 - 29
2367538	Pendimethalin	17.3	Spike	P	0 - 33
2367538	Phenytoin	30.3	Spike	P	0 - 100
2367538	Phorate	19.4	Spike	P	0 - 36
2367538	Prodiamine	3.65	Spike	P	0 - 71
2367538	Prometon	16.6	Spike	P	0 - 36
2367538	Prometryn	3.69	Spike	P	0 - 28
2367538	Pronamide	3.15	Spike	P	0 - 24
2367538	Propanil	5.67	Spike	P	0 - 28
2367538	Propargite	3.79	Spike	P	0 - 43
2367538	Propiconazole	13.5	Spike	P	0 - 33
2367538	Pyraflufen Ethyl	8.23	Spike	P	0 - 29
2367538	Pyridaben	14.9	Spike	P	0 - 30
2367538	Pyriproxyfen	16.5	Spike	P	0 - 79
2367538	Simazine	4.61	Spike	P	0 - 29
2367538	Stirophos	10.7	Spike	P	0 - 61
2367538	Sulfentrazone	10.3	Spike	P	0 - 33
2367538	Tebuconazole	6.71	Spike	P	0 - 69
2367538	Terbufos	10.1	Spike	P	0 - 29
2367538	Terbutylazine	3.51	Spike	P	0 - 32
2367538	Thiobencarb	8.03	Spike	P	0 - 26
2367538	Triadimefon	21.7	Spike	P	0 - 28

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P421853

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366173	Chlordane	0.985	Spike	P	0 - 25
2366173	Toxaphene	0.770	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P421714

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366047	Acesulfame K	1.55	Spike	P	0 - 30
2366047	AMPA	6.57	Spike	P	0 - 30
2366047	Endothall	0.162	Spike	P	0 - 30
2366047	Glufosinate	10.4	Spike	P	0 - 30
2366047	Glyphosate	8.88	Spike	P	0 - 30
2366047	Sucralose	2.44	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P421744

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366175	2,4-D	26.5	Spike	P	0 - 30
2366175	2,4,5-T	17.2	Spike	P	0 - 30
2366175	Acetaminophen	2.11	Spike	P	0 - 30
2366175	Acetamiprid	20.6	Spike	P	0 - 30
2366175	Afidopyropen	14.3	Spike	P	0 - 30
2366175	Bentazon	11.3	Spike	P	0 - 30
2366175	Benzovindiflupyr	3.60	Spike	P	0 - 30
2366175	Carbamazepine	2.56	Spike	P	0 - 30
2366175	Clothianidin	16.9	Spike	P	0 - 30
2366175	Dinotefuran	7.94	Spike	P	0 - 30
2366175	Diuron	4.05	Spike	P	0 - 30
2366175	Fenuron	11.0	Spike	P	0 - 30
2366175	Fluridone	0.401	Spike	P	0 - 30
2366175	Hydrocodone	15.2	Spike	P	0 - 30
2366175	Ibuprofen	21.2	Spike	P	0 - 30
2366175	Imazapyr	11.9	Spike	P	0 - 30
2366175	Imidacloprid	5.22	Spike	P	0 - 30
2366175	Linuron	2.97	Spike	P	0 - 30
2366175	Mandestrobin	9.28	Spike	P	0 - 30
2366175	MCPP	14.8	Spike	P	0 - 30
2366175	Naproxen	1.64	Spike	P	0 - 30
2366175	Primidone	18.3	Spike	P	0 - 30
2366175	Pyraclostrobin	2.98	Spike	P	0 - 30
2366175	Silvex	11.6	Spike	P	0 - 30
2366175	Thiamethoxam	6.73	Spike	P	0 - 30
2366175	Tolfenpyrad	6.48	Spike	P	0 - 30
2366175	Triclopyr	19.1	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P422006

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366166	Total Alkalinity	0.668	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P422175

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2365900	TDS	1.75	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P422020

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366166	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P421998

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366238	Organic Carbon	0.593	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2366171
Field Sample ID: G1TLHR0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	55.5	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	54.6	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	36.4	P	30 - 101
EPA 8276	PCNB	72.4	P	48 - 121

Lab Sample ID: 2366172
Field Sample ID: G1TLHR0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	93.8	P	20 - 200
EPA 8270E	Simazine-d10	88.5	P	62 - 142
EPA 8270E	Terbufos-d10	101	P	58 - 132

Lab Sample ID: 2366173
Field Sample ID: G1TLHR0150

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	62.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	60.1	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	42.4	P	30 - 101
EPA 8276	PCNB	79.2	P	48 - 121

Lab Sample ID: 2366174
Field Sample ID: G1TLHR0150

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	104	P	20 - 200
EPA 8270E	Simazine-d10	107	P	62 - 142
EPA 8270E	Terbufos-d10	115	P	58 - 132

Lab Sample ID: 2366175
Field Sample ID: G1TLHR0142

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	91.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	105	P	30 - 160
EPA 8321B	Carbamazepine-d10	94.7	P	30 - 160
EPA 8321B	Diuron-d6	90.2	P	30 - 160
EPA 8321B	Endothall-d6	99.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	88.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	86.4	P	30 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Sucralose-d6	83.8	P	30 - 160

Lab Sample ID: 2366176
Field Sample ID: G1TLHR0150

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	122	P	30 - 160
EPA 8321B	Carbamazepine-d10	113	P	30 - 160
EPA 8321B	Diuron-d6	107	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2366176

Field Sample ID: G1TLHR0150

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Endothall-d6	116	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	88.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	84.8	P	30 - 160
EPA 8321B	Primidone-d5	125	P	30 - 160
EPA 8321B	Sucralose-d6	84.0	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A115658

Included Lab Sample IDs: 2366166, 2366186

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A115659

Included Lab Sample IDs: 2366166, 2366186

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.0	98.5	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A115661

Included Lab Sample IDs: 2366168, 2366188

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.0	99.7	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115696

Included Lab Sample IDs: 2366175, 2366176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	103	105	P/P	60 - 160
AMPA	108	103	P/P	60 - 160
Endothall	96.2	107	P/P	60 - 160
Endothall	98.0	96.2	P/P	60 - 160
Glufosinate	106	88.4	P/P	60 - 160
Glufosinate	88.4	98.6	P/P	60 - 160
Glyphosate	101	100	P/P	60 - 160
Glyphosate	97.6	101	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A115702

Included Lab Sample IDs: 2366175, 2366176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.4	99.3	P/P	50 - 150
2,4-D	99.3	106	P/P	50 - 150
2,4,5-T	101	97.6	P/P	50 - 150
2,4,5-T	106	101	P/P	50 - 150
Acetaminophen	109	109	P/P	60 - 160
Acetaminophen	109	124	P/P	60 - 160
Acetamiprid	114	118	P/P	50 - 150
Acetamiprid	118	114	P/P	50 - 150
Afidopyropen	107	124	P/P	50 - 150
Afidopyropen	116	107	P/P	50 - 150
Bentazon	115	117	P/P	50 - 160
Bentazon	117	115	P/P	50 - 160
Benzovindiflupyr	117	119	P/P	50 - 150
Benzovindiflupyr	125	117	P/P	50 - 150
Carbamazepine	114	118	P/P	60 - 150
Carbamazepine	118	116	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A115702

Included Lab Sample IDs: 2366175, 2366176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Clothianidin	121	126	P/P	60 - 150
Clothianidin	126	125	P/P	60 - 150
Dinotefuran	113	124	P/P	50 - 150
Dinotefuran	124	140	P/P	50 - 150
Diuron	104	108	P/P	60 - 160
Diuron	114	104	P/P	60 - 160
Fenuron	107	113	P/P	60 - 150
Fenuron	113	109	P/P	60 - 150
Fluridone	109	114	P/P	60 - 160
Fluridone	119	109	P/P	60 - 160
Hydrocodone	114	118	P/P	60 - 150
Hydrocodone	120	114	P/P	60 - 150
Ibuprofen	77.7	98.7	P/P	50 - 160
Ibuprofen	85.4	77.7	P/P	50 - 160
Imazapyr	107	114	P/P	50 - 150
Imazapyr	112	107	P/P	50 - 150
Imidacloprid	104	108	P/P	60 - 150
Imidacloprid	105	104	P/P	60 - 150
Linuron	120	107	P/P	60 - 150
Linuron	121	120	P/P	60 - 150
Mandestrobin	106	109	P/P	50 - 150
Mandestrobin	111	106	P/P	50 - 150
MCPP	107	99.3	P/P	50 - 150
MCPP	99.3	107	P/P	50 - 150
Naproxen	104	85.2	P/P	50 - 160
Naproxen	94.9	104	P/P	50 - 160
Primidone	115	107	P/P	60 - 150
Primidone	126	115	P/P	60 - 150
Pyraclostrobin	111	114	P/P	60 - 150
Pyraclostrobin	112	111	P/P	60 - 150
Silvex	93.8	89.1	P/P	50 - 150
Silvex	98.6	93.8	P/P	50 - 150
Thiamethoxam	113	115	P/P	50 - 150
Thiamethoxam	116	113	P/P	50 - 150
Tolfenpyrad	115	116	P/P	60 - 150
Tolfenpyrad	116	117	P/P	60 - 150
Triclopyr	103	98.4	P/P	50 - 150
Triclopyr	98.4	101	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115752

Included Lab Sample IDs: 2366187

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	106	106	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A115774

Included Lab Sample IDs: 2366166, 2366186

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

Reference Method: SM 2320 B-2011

Run ID: A115774

Included Lab Sample IDs: 2366166, 2366186

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.1	97.1	P/P	90 - 110
Total Alkalinity	97.1	97.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A115774

Included Lab Sample IDs: 2366166, 2366186

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

Reference Method: SM 5310 B-2011

Run ID: A115775

Included Lab Sample IDs: 2366167, 2366187

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	98.2	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115783

Included Lab Sample IDs: 2366175, 2366176

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	84.6	86.9	P/P	60 - 160
Acesulfame K	86.9	87.9	P/P	60 - 160
Sucralose	80.8	80.9	P/P	60 - 160
Sucralose	81.0	80.8	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A115789

Included Lab Sample IDs: 2366167, 2366187

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.6	98.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115805

Included Lab Sample IDs: 2366167

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A115808

Included Lab Sample IDs: 2366167, 2366187

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.3	94.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A115830

Included Lab Sample IDs: 2366167, 2366187

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.9	99.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A115853

Included Lab Sample IDs: 2366171, 2366173

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	106		P	80 - 120
Alpha-BHC	99.1		P	80 - 120
Alpha-Chlordane	103		P	80 - 120
Beta-BHC	97.2		P	80 - 120
Beta-Cyfluthrin	111		P	80 - 120
Bifenthrin	110		P	80 - 120
Chlorothalonil	121*		F	80 - 120
Cis-Nonachlor	113		P	80 - 120
Cypermethrin	115		P	80 - 120
Dacthal	113		P	80 - 120
DDD-p,p'	111		P	80 - 120
DDE-p,p'	112		P	80 - 120
DDT-p,p'	104		P	80 - 120
Delta-BHC	106		P	80 - 120
Deltamethrin	119		P	80 - 120
Dichlobenil	106		P	80 - 120
Dicofol	117		P	80 - 120
Dieldrin	113		P	80 - 120
Endosulfan I	108		P	80 - 120
Endosulfan II	112		P	80 - 120
Endosulfan Sulfate	114		P	80 - 120
Endrin	113		P	80 - 120
Endrin Aldehyde	112		P	80 - 120
Endrin Ketone	117		P	80 - 120
Esfenvalerate	112		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	119		P	80 - 120
Gamma-BHC	110		P	80 - 120
Gamma-Chlordane	99.4		P	80 - 120
Heptachlor	109		P	80 - 120
Heptachlor Epoxide	111		P	80 - 120
Hexachlorobenzene	104		P	80 - 120
Kepone	104		P	80 - 120
Lambda-Cyhalothrin	113		P	80 - 120
Methoprene	112		P	80 - 120
Methoxychlor	97.5		P	80 - 120
MGK-264	108		P	80 - 120
Mirex	117		P	80 - 120
Oxychlordane	106		P	80 - 120
Permethrin	112		P	80 - 120
Phenothrin	108		P	80 - 120
Piperonyl Butoxide	113		P	80 - 120
Prallethrin	104		P	80 - 120
Tau-Fluvalinate	111		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A115853

Included Lab Sample IDs: 2366171, 2366173

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tetramethrin	115		P	80 - 120
Trans-Nonachlor	109		P	80 - 120
Triclosan Methyl	106		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8270E

Run ID: A115866

Included Lab Sample IDs: 2366172, 2366174

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.3		P	80 - 120
Alachlor	92.5		P	80 - 120
Ametryn	84.9		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	93.7		P	80 - 120
Azinphos Methyl	86.5		P	80 - 120
Azoxystrobin	99.6		P	80 - 120
Bromacil	87.9		P	80 - 120
Butylate	91.0		P	80 - 120
Caffeine	95.4		P	80 - 120
Carbophenothion	89.7		P	80 - 120
Carfentrazone Ethyl	95.3		P	80 - 120
Chlorfenapyr	90.3		P	80 - 120
Chlorpyrifos Ethyl	93.9		P	80 - 120
Chlorpyrifos Methyl	95.8		P	80 - 120
Coumaphos	83.0		P	80 - 120
Cyanazine	92.0		P	80 - 120
Cyprodinil	80.6		P	80 - 120
Demeton	95.6		P	80 - 120
Diazinon	89.7		P	80 - 120
Difenoconazole	82.6		P	80 - 120
Dimethenamid	96.2		P	80 - 120
Dimethomorph	106		P	80 - 120
Disulfoton	103		P	80 - 120
Dithiopyr	82.2		P	80 - 120
EPTC	96.4		P	80 - 120
Ethion	85.9		P	80 - 120
Ethoprop	98.7		P	80 - 120
Etridiazole	98.1		P	80 - 120
Fenamiphos	90.6		P	80 - 120
Fenbuconazole	89.1		P	80 - 120
Fipronil	97.9		P	80 - 120
Fipronil Desulfinyl	80.6		P	80 - 120
Fipronil Sulfide	83.9		P	80 - 120
Fipronil Sulfone	93.9		P	80 - 120
Fluazifop-P-butyl	88.0		P	80 - 120
Fludioxonil	88.3		P	80 - 120
Flumioxazin	88.8		P	80 - 120
Flutolanil	92.7		P	80 - 120
Fluxapyroxad	83.8		P	80 - 120
Fonofos	90.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A115866

Included Lab Sample IDs: 2366172, 2366174

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexazinone	97.6		P	80 - 120
Imazalil	90.6		P	80 - 120
Iprodione	96.7		P	80 - 120
Loratadine	85.1		P	80 - 120
Malathion	94.6		P	80 - 120
Metalaxyl	81.6		P	80 - 120
Metolachlor	94.8		P	80 - 120
Metribuzin	95.5		P	80 - 120
Mevinphos	92.1		P	80 - 120
Molinate	103		P	80 - 120
Myclobutanil	92.8		P	80 - 120
Naled	90.2		P	80 - 120
Napropamide	87.2		P	80 - 120
Norflurazon	94.2		P	80 - 120
Oxadiazon	91.1		P	80 - 120
Oxyfluorfen	87.6		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytoin	90.7		P	80 - 120
Phorate	96.2		P	80 - 120
Prodiamine	91.3		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	80.8		P	80 - 120
Pronamide	91.1		P	80 - 120
Propanil	85.5		P	80 - 120
Propargite	82.0		P	80 - 120
Propiconazole	90.7		P	80 - 120
Pyraflufen Ethyl	92.0		P	80 - 120
Pyridaben	91.7		P	80 - 120
Pyriproxyfen	89.4		P	80 - 120
Simazine	104		P	80 - 120
Stirophos	91.5		P	80 - 120
Sulfentrazone	83.0		P	80 - 120
Tebuconazole	82.4		P	80 - 120
Terbufos	92.2		P	80 - 120
Terbuthylazine	94.3		P	80 - 120
Thiobencarb	97.6		P	80 - 120
Triadimefon	94.9		P	80 - 120

Reference Method: EPA 8276

Run ID: A115928

Included Lab Sample IDs: 2366171

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	105		P	80 - 120
Toxaphene	113		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A115930

Included Lab Sample IDs: 2366173

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	94.2		P	80 - 120
Toxaphene	89.5		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A115939

Included Lab Sample IDs: 2366166, 2366186

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.1	100	P/P	90 - 110
Sulfate	101	102	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	100				0.362	
EPA 180.1 Rev. 2.0	Turbidity	99.6				17.0	
EPA 300.0 Rev. 2.1	Chloride	96.4	100	99.5		0.535	
	Sulfate	98.0	102	100		0.417	
EPA 350.1 Rev. 2.0	Ammonia-N	97.6	100	101			1.19
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104					3.33
EPA 353.2 Rev. 2.0	NO2NO3-N	107	108	107			0.371
	NO2NO3-N	108	107	106			0.800
EPA 365.1 Rev. 2.0	Total-P	105	107	106			0.796
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	99.2	98.6			0.407
EPA 8270E	Acetochlor	107	99.6	91.5			8.44
	Alachlor	85.3	86.7	74.5			15.2
	Aldrin	58.5	51.6	50.0			3.04
	Alpha-BHC	88.2	85.0	80.9			4.85
	Alpha-Chlordane	85.2	80.9	77.7			4.05
	Ametryn	107	112	101			6.92
	Atrazine	103					5.42
	Atrazine Desethyl	77.9	75.8	65.2			11.8
	Azinphos Methyl	155	145	140			3.09
	Azoxystrobin	109	130	129			1.00
	Beta-BHC	109	107	98.0			8.44
	Beta-Cyfluthrin	83.4	74.8	68.5			8.81
	Bifenthrin	59.5	52.4	48.7			7.37
	Bromacil	119	125	125			0.0178
	Butylate	62.5	52.8	42.0			22.8
	Caffeine	78.2	85.9	87.9			2.26
	Carbophenothion	110	123	116			5.46
	Carfentrazone Ethyl	114	128	117			8.98
	Chlorfenapyr	107	101	106			5.15
	Chlorothalonil	153	183	166			9.69
	Chlorpyrifos Ethyl	92.9	82.2	115			32.9
	Chlorpyrifos Methyl	104	102	102			0.775
	Cis-Nonachlor	75.4	69.1	67.9			1.71
	Coumaphos	103	110	97.6			11.7
	Cyanazine	204	212	220			3.90
	Cypermethrin	90.6	80.3	70.7			12.8
	Cyprodinil	123	125	111			11.5
	Dacthal	87.6	84.9	80.5			5.28
	DDD-p,p'	77.7	76.9	74.6			3.07
	DDE-p,p'	77.2	71.6	73.6			2.74
	DDT-p,p'	74.2	70.1	70.1			0.0201
	Delta-BHC	135	127	117			8.58
	Deltamethrin	109	92.2	93.3			1.22
	Demeton	92.7	131	115			13.3
	Diazinon	94.6	88.8	85.6			3.63
	Dichlobenil	92.1	85.7	80.4			6.46
	Dicofol	72.0	70.2	68.8			2.09
	Dieldrin	80.8	72.3	74.8			3.43
	Difenoconazole	93.1	103	89.9			14.0
	Dimethenamid	81.1	79.4	74.3			6.58
	Dimethomorph	106	135	115			16.2
	Disulfoton	104	104	91.2			13.1
	Dithiopyr	100	115	96.3			18.1
	Endosulfan I	77.8	71.8	71.7			0.125

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Endosulfan II	94.1	84.8	84.6			0.276
	Endosulfan Sulfate	107	103	93.4			9.37
	Endrin	78.6	75.2	75.7			0.619
	Endrin Aldehyde	85.7	77.5	80.3			3.65
	Endrin Ketone	86.0	67.0	64.4			3.83
	EPTC	60.1	55.2	40.6			30.6
	Esfenvalerate	92.8	75.9	78.9			3.86
	Ethalfuralin	74.4	70.2	67.7			3.68
	Ethion	75.7	71.7	68.6			4.42
	Ethoprop	108	117	115			2.20
	Etridiazole	85.3	83.0	75.0			10.1
	Fenamiphos	111	113	96.1			16.3
	Fenbuconazole	84.8	114	85.0			29.3
	Fenpropathrin	83.7	78.0	69.2			11.9
	Fipronil	94.1	139	126			10.1
	Fipronil Desulfinyl	97.7	101	102			0.389
	Fipronil Sulfide	84.2	96.9	90.4			6.88
	Fipronil Sulfone	87.8	128	119			6.87
	Fluazifop-P-butyl	106	105	110			4.81
	Fludioxonil	100	111	93.9			16.5
	Flumioxazin	95.4	89.5	90.7			1.35
	Flutolanil	100	106	98.0			8.07
	Fluxapyroxad	108	115	97.6			14.5
	Fonofos	90.9	90.4	76.2			17.0
	Gamma-BHC	93.5	78.4	81.9			4.37
	Gamma-Chlordane	79.6	81.7	72.4			12.0
	Heptachlor	68.0	59.5	59.7			0.286
	Heptachlor Epoxide	76.2	71.6	73.3			2.35
	Hexachlorobenzene	78.6	76.9	70.3			9.03
	Hexazinone	106	113	103			5.13
	Imazalil	83.6	102	98.3			3.96
	Iprodione	243	266	248			6.84
	Kepone	94.9	93.9	79.0			17.2
	Lambda-Cyhalothrin	78.7	72.1	66.2			8.51
	Loratadine	87.2	92.1	85.3			7.73
	Malathion	111	102	101			0.579
	Metalaxyl	92.9	89.2	91.0			1.90
	Methoprene	61.6	52.5	53.3			1.46
	Methoxychlor	78.0	76.5	69.0			10.2
	Metolachlor	114	119	119			0.366
	Metribuzin	98.8	117	117			0.520
	Mevinphos	88.5	99.5	87.3			13.1
	MGK-264	91.4	84.8	86.3			1.77
	Mirex	61.9	56.0	52.2			7.09
	Molinate	80.0	80.9	74.8			7.87
	Myclobutanil	112	122	102			16.8
	Naled	76.6	110	81.1			30.5
	Napropamide	94.1	98.4	89.7			9.24
	Norflurazon	103					13.8
	Oxadiazon	97.8	94.2	87.0			6.28
	Oxychlordane	66.4	60.4	70.3			15.1
	Oxyfluorfen	118	121	122			0.736
	Parathion Ethyl	107	107	104			3.15
	Parathion Methyl	129	134	125			6.46

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Pendimethalin	104	119	99.6			17.3
	Permethrin	83.5	72.2	68.1			5.72
	Phenothrin	61.5	57.1	55.9			2.08
	Phenytol	145	116	157			30.3
	Phorate	66.9	89.8	73.9			19.4
	Piperonyl Butoxide	84.9	70.5	72.4			2.68
	Prallethrin	87.7	79.2	83.5			5.26
	Prodiamine	87.0	75.5	78.3			3.65
	Prometon	100	118	100			16.6
	Prometryn	134	143	149			3.69
	Pronamide	119	119	123			3.15
	Propanil	96.5	91.5	96.8			5.67
	Propargite	143	149	144			3.79
	Propiconazole	105	112	93.8			13.5
	Pyraflufen Ethyl	97.8	103	95.1			8.23
	Pyridaben	137	167	144			14.9
	Pyriproxyfen	161	139	164			16.5
	Simazine	107	109	115			4.61
	Stirophos	117	113	126			10.7
	Sulfentrazone	83.9	98.6	87.3			10.3
	Tau-Fluvalinate	81.2	70.8	71.7			1.27
	Tebuconazole	110	122	114			6.71
	Terbufos	118	126	114			10.1
	Terbutylazine	105	103	99.3			3.51
	Tetramethrin	112	96.3	98.4			2.14
	Thiobencarb	111	108	117			8.03
	Trans-Nonachlor	72.8	60.2	68.6			13.1
	Triadimefon	96.9	91.3	113			21.7
	Triclosan Methyl	77.3	74.5	74.4			0.212
	Trifluralin	69.2	70.6	66.7			5.80
EPA 8276	Chlordane	140	119	120			0.985
	Toxaphene	130	116	115			0.770
EPA 8321B	2,4-D	78.0	81.1	106			26.5
	2,4,5-T	65.3	66.7	79.3			17.2
	Acesulfame K	90.2	76.5	77.7			1.55
	Acetaminophen	98.6	106	108			2.11
	Acetamiprid	86.4	85.2	105			20.6
	Afidopyropen	70.5	67.8	78.2			14.3
	AMPA	116	85.9	92.7			6.57
	Bentazon	104	103	115			11.3
	Benzovindiflupyr	89.0	102	106			3.60
	Carbamazepine	93.0	110	107			2.56
	Clothianidin	108	118	140			16.9
	Dinotefuran	110	121	131			7.94
	Diuron	84.6	91.2	94.9			4.05
	Endothall	101	193	193			0.162
	Fenuron	110	114	127			11.0
	Fluridone	93.7	113	113			0.401
	Glufosinate	104	81.1	90.0			10.4
	Glyphosate	103	85.5	95.0			8.88
	Hydrocodone	103	114	132			15.2
	Ibuprofen	73.8	75.2	93.0			21.2
	Imazapyr	84.4	102	115			11.9
	Imidacloprid	102	112	118			5.22

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Linuron	98.5	97.8	94.9		2.97
	Mandestrobin	90.3	94.4	104		9.28
	MCCP	84.7	95.6	111		14.8
	Naproxen	56.9	80.3	79.0		1.64
	Primidone	99.1	98.9	119		18.3
	Pyraclostrobin	79.2	95.8	98.8		2.98
	Silvex	62.1	66.8	75.0		11.6
	Sucralose	83.0	92.2	94.6		2.44
	Thiamethoxam	102	118	126		6.73
	Tolfenpyrad	41.6	54.8	51.4		6.48
	Triclopyr	61.4	66.7	80.8		19.1
SM 2320 B-2011	Total Alkalinity	98.0			0.668	
SM 2540 C-2015	TDS	101			1.75	
SM 2540 D-2015	TSS	97.7				
SM 4500-F- C-2011	Fluoride	101	102	102		0.0
SM 5310 B-2011	Organic Carbon	96.3	97.8	98.6		0.593

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2366166, 2366186
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2366166, 2366186
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2366166, 2366186
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2366166, 2366186
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2366167, 2366187
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2366167, 2366187
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2366167, 2366187
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2366167, 2366187
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2366168, 2366188
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2366171, 2366173
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2366172, 2366174
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2366171, 2366173
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2366175, 2366176
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2366166, 2366186
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2366166, 2366186
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2366166, 2366186
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2366166, 2366186
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2366167, 2366187

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	10/31/2022			11/01/2022 14:13	Chandler E Cox	2366166
	10/31/2022			11/01/2022 14:14	Chandler E Cox	2366186
EPA 180.1 Rev. 2.0	10/31/2022			11/01/2022 14:24	Anna M. Plaviak	2366166
	10/31/2022			11/01/2022 14:27	Anna M. Plaviak	2366186
EPA 300.0 Rev. 2.1	10/31/2022			11/15/2022 18:15	Anna M. Plaviak	2366166
	10/31/2022			11/15/2022 18:30	Anna M. Plaviak	2366186
EPA 350.1 Rev. 2.0	10/31/2022			11/07/2022 13:07	Ping Hua	2366167
	10/31/2022			11/07/2022 13:21	Ping Hua	2366187
EPA 351.2 Rev. 2.0	10/31/2022	11/04/2022 10:30	Simonne.V. Calhoun	11/08/2022 13:02	Samantha L Bates	2366167
	10/31/2022	11/04/2022 10:30	Simonne.V. Calhoun	11/08/2022 13:04	Samantha L Bates	2366187
EPA 353.2 Rev. 2.0	10/31/2022			11/04/2022 12:03	Beverly Y. Sanders	2366187
	10/31/2022			11/08/2022 09:56	Beverly Y. Sanders	2366167
EPA 365.1 Rev. 2.0	10/31/2022	11/08/2022 13:18	Adam P Silver	11/09/2022 10:16	James L Waggerby	2366167
	10/31/2022	11/08/2022 13:18	Adam P Silver	11/09/2022 10:17	James L Waggerby	2366187
EPA 365.1 Rev. 2.0 dissolved	10/31/2022			11/01/2022 16:01	Elise M. Gillis	2366168
	10/31/2022			11/01/2022 16:04	Elise M. Gillis	2366188
EPA 8270E	10/31/2022	11/04/2022 08:30	Rasheda Ghaffari	11/08/2022 20:36	Julie Wi	2366171
	10/31/2022	11/04/2022 08:30	Rasheda Ghaffari	11/08/2022 21:05	Julie Wi	2366173
	10/31/2022	11/08/2022 08:30	Rasheda Ghaffari	11/09/2022 23:07	Michael Poppell	2366172
	10/31/2022	11/08/2022 08:30	Rasheda Ghaffari	11/09/2022 23:35	Michael Poppell	2366174
EPA 8276	10/31/2022	11/04/2022 08:30	Rasheda Ghaffari	11/08/2022 07:31	Arthur Maknenko	2366171
	10/31/2022	11/04/2022 08:30	Rasheda Ghaffari	11/11/2022 00:28	Arthur Maknenko	2366173
EPA 8321B	10/31/2022	11/02/2022 09:30	June Rhew	11/02/2022 17:03	Juyoung Kim	2366175
	10/31/2022	11/02/2022 09:30	June Rhew	11/02/2022 18:26	Juyoung Kim	2366176
	10/31/2022	11/02/2022 12:00	Umesh Chiluwal	11/02/2022 14:30	Umesh Chiluwal	2366175
	10/31/2022	11/02/2022 12:00	Umesh Chiluwal	11/02/2022 14:56	Umesh Chiluwal	2366176
	10/31/2022	11/02/2022 12:00	Umesh Chiluwal	11/03/2022 06:25	Umesh Chiluwal	2366175
	10/31/2022	11/02/2022 12:00	Umesh Chiluwal	11/03/2022 06:55	Umesh Chiluwal	2366176
	10/31/2022			11/05/2022 15:23	Dale L. Simmons	2366166
SM 2320 B-2011	10/31/2022			11/05/2022 17:29	Dale L. Simmons	2366186
SM 2540 C-2015	10/31/2022			11/02/2022 15:18	Yijie Li	2366166, 2366186
SM 2540 D-2015	10/31/2022			11/02/2022 15:18	Yijie Li	2366166, 2366186
SM 4500-F- C-2011	10/31/2022			11/05/2022 15:11	Dale L. Simmons	2366166
	10/31/2022			11/05/2022 17:29	Dale L. Simmons	2366186
SM 5310 B-2011	10/31/2022			11/05/2022 01:30	Khloe J Berg	2366167
	10/31/2022			11/05/2022 01:48	Khloe J Berg	2366187