

Chemical Analysis Report

TLH-ROC-2022-06-06-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

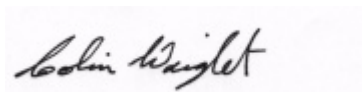
Event Description: **Run 17**
Request ID: **RQ-2022-05-30-52**
Customer: **TLH-ROC**
Project ID: **SMP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 28-JUN-2022 11:48

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

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: Tributary South Mosquito Creek

Collection Date/Time: 06/06/2022 10:05

Field ID: G2TLHR0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332274	DEP SOP: NU-094-1	Color (true)**	37		PCU	P414833	
	EPA 180.1 Rev. 2.0	Turbidity	14		NTU	P414847	
	EPA 300.0 Rev. 2.1	Sulfate	0.82		mg SO4/L	P415047	
	SM 2320 B-2011	Total Alkalinity	59		mg CaCO3/L	P415387	
	SM 2540 C-2011	TDS	79		mg/L	P415242	
	SM 2540 D-2011	TSS	19		mg/L	P415245	
	SM 4500-F- C-2011	Fluoride	0.087	I	mg F/L	P415392	
2332279	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P415441	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.39		mg N/L	P415534	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.39		mg N/L	P415347	
	EPA 365.1 Rev. 2.0	Total-P	0.042		mg P/L	P414900	MS
	SM 5310 B-2011	Organic Carbon	3.2		mg C/L	P414934	
2332284	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.011		mg P/L	P414840	
2332318	EPA 200.7 Rev. 4.4	Calcium	15.0		mg/L	P414861	
		Iron	610		ug/L	P414861	
		Magnesium	5.51		mg/L	P414861	
		Potassium	0.99	I	mg/L	P414861	
		Sodium	2.5		mg/L	P414861	
		Strontium	20.4		ug/L	P414861	
		Tin	3.0	U	ug/L	P414861	
		Titanium	2.8	I	ug/L	P414861	
		Vanadium	2.0	U	ug/L	P414861	
		Zinc	5.0	U	ug/L	P414861	
	EPA 200.8 Rev. 5.4	Aluminum	188		ug/L	P414861	
		Antimony	0.050	U	ug/L	P414861	
		Arsenic	0.40		ug/L	P414861	
		Barium	20.6		ug/L	P414861	
		Beryllium	0.040	I	ug/L	P414861	
		Boron**	12.2		ug/L	P414861	
		Cadmium	0.020	U	ug/L	P414861	
		Chromium	0.53	I	ug/L	P414861	
		Cobalt	0.237		ug/L	P414861	
		Copper	0.40	U	ug/L	P414861	
		Lead	0.27	I	ug/L	P414861	
		Manganese	41.1		ug/L	P414861	
		Molybdenum	0.18	I	ug/L	P414861	
		Nickel	0.50	U	ug/L	P414861	
		Selenium	0.20	U	ug/L	P414861	
		Silver	0.010	U	ug/L	P414861	
		Thallium	0.10	U	ug/L	P414861	
	SM 2340 B-2011	Hardness	60.2		mg/L	P414861	

Field ID: G2TLHR0008

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: South Mosquito Creek @ Power Line

Collection Date/Time: 06/06/2022 10:25

Field ID: G2TLHR0039

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332275	DEP SOP: NU-094-1	Color (true)**	23	A	PCU	P414843	
	EPA 180.1 Rev. 2.0	Turbidity	17		NTU	P414847	
	EPA 300.0 Rev. 2.1	Sulfate	0.56		mg SO4/L	P415047	
	SM 2320 B-2011	Total Alkalinity	21		mg CaCO3/L	P415387	
	SM 2540 C-2011	TDS	46		mg/L	P415242	
	SM 2540 D-2011	TSS	24		mg/L	P415245	
	SM 4500-F- C-2011	Fluoride	0.057	I	mg F/L	P415392	
2332280	EPA 350.1 Rev. 2.0	Ammonia-N	0.015		mg N/L	P415441	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.41		mg N/L	P415359	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.50		mg N/L	P415347	
	EPA 365.1 Rev. 2.0	Total-P	0.076		mg P/L	P414900	MS
	SM 5310 B-2011	Organic Carbon	3.5		mg C/L	P414934	
2332285	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.019		mg P/L	P414840	
2332319	EPA 200.7 Rev. 4.4	Calcium	5.23		mg/L	P414861	
		Iron	1.00E+03		ug/L	P414861	
		Magnesium	2.42		mg/L	P414861	
		Potassium	0.59	I	mg/L	P414861	
		Sodium	2.2		mg/L	P414861	
		Strontium	14.6		ug/L	P414861	
		Tin	3.0	U	ug/L	P414861	
		Titanium	5.3		ug/L	P414861	
		Vanadium	2.0	U	ug/L	P414861	
		Zinc	5.0	U	ug/L	P414861	
	EPA 200.8 Rev. 5.4	Aluminum	596		ug/L	P414861	
		Antimony	0.050	U	ug/L	P414861	
		Arsenic	0.61		ug/L	P414861	
		Barium	19.0		ug/L	P414861	
		Beryllium	0.043		ug/L	P414861	
		Boron**	9.3		ug/L	P414861	
		Cadmium	0.022	I	ug/L	P414861	
		Chromium	0.88	I	ug/L	P414861	
		Cobalt	0.303		ug/L	P414861	
		Copper	0.45	I	ug/L	P414861	
		Lead	0.29	I	ug/L	P415274	
		Manganese	45.0		ug/L	P414861	
		Molybdenum	0.20	I	ug/L	P414861	
		Nickel	0.50	U	ug/L	P414861	
		Selenium	0.20	U	ug/L	P414861	
		Silver	0.010	U	ug/L	P414861	
		Thallium	0.10	U	ug/L	P414861	
	SM 2340 B-2011	Hardness	23.0		mg/L	P414861	

Field ID: G2TLHR0039

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Mosquito Creek @ Jinks Crossing Rd

Collection Date/Time: 06/06/2022 10:40

Field ID: G2TLHR0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332272	DEP SOP: NU-094-1	Color (true)**	39		PCU	P414833	
	EPA 180.1 Rev. 2.0	Turbidity	4.3		NTU	P414847	
	EPA 300.0 Rev. 2.1	Chloride	5.5		mg Cl/L	P415044	
		Sulfate	0.70		mg SO4/L	P415047	
	SM 2320 B-2011	Total Alkalinity	26		mg CaCO3/L	P415387	
	SM 2540 C-2011	TDS	48		mg/L	P415242	
	SM 2540 D-2011	TSS	4	I	mg/L	P415245	
	SM 4500-F- C-2011	Fluoride	0.061	I	mg F/L	P415392	
2332273	EPA 350.1 Rev. 2.0	Ammonia-N	0.023		mg N/L	P415441	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.47	J	mg N/L	P414869	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.85		mg N/L	P415347	
	EPA 365.1 Rev. 2.0	Total-P	0.045		mg P/L	P414900	MS
	SM 5310 B-2011	Organic Carbon	4.2		mg C/L	P414934	
2332304	EPA 8321B	Aldicarb	0.020	U	ug/L	P414737	
		Aldicarb Sulfone	0.0020	U	ug/L	P414737	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P414737	
		Carbaryl	0.0020	U	ug/L	P414737	
		Carbofuran	0.0020	U	ug/L	P414737	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P414737	
		Methiocarb	0.0020	U	ug/L	P414737	
		Methomyl	0.0020	U	ug/L	P414737	
		Oxamyl	0.0020	U	ug/L	P414737	
		Propoxur	0.0020	U	ug/L	P414737	
		2,4-D	0.0020	U	ug/L	P414735	
		Acesulfame K	0.10	U	ug/L	P414771	
		2,4,5-T	0.0040	U	ug/L	P414735	
2332305		AMPA	0.10	U	ug/L	P414771	
		Acetaminophen	0.015	I	ug/L	P414735	
		Acetamiprid	0.0020	U	ug/L	P414735	
		Endothall	0.25	U	ug/L	P414771	
		Glufosinate	0.10	U	ug/L	P414771	
		Glyphosate	0.10	U	ug/L	P414771	
		Afidopyropen	0.0020	U	ug/L	P414735	
		Bentazon	0.018		ug/L	P414735	
		Sucralose	0.070		ug/L	P414771	
		Benzovindiflupyr	0.0098		ug/L	P414735	
		Carbamazepine	8.0E-04	U	ug/L	P414735	
		Clothianidin	0.0020	U	ug/L	P414735	
		Dinotefuran	0.26		ug/L	P414735	
		Diuron	0.0020	U	ug/L	P414735	
		Fenuron	0.032	U	ug/L	P414735	
		Fluridone	8.0E-04	U	ug/L	P414735	
		Imazapyr	0.016	I	ug/L	P414735	
		Hydrocodone	0.0020	U	ug/L	P414735	

Field ID: G2TLHR0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332305	EPA 8321B	Ibuprofen	0.020	U	ug/L	P414735	
		Imidacloprid	0.012		ug/L	P414735	
		Linuron	0.0040	U	ug/L	P414735	
		Mandestrobin	0.0020	U	ug/L	P414735	
		MCP	0.0040	U	ug/L	P414735	
		Naproxen	0.0080	U	ug/L	P414735	
		Primidone	0.0040	U	ug/L	P414735	
		Pyraclostrobin	0.0020	U	ug/L	P414735	
		Silvex	0.0040	U	ug/L	P414735	
		Thiamethoxam	0.0020	U	ug/L	P414735	
		Tolfenpyrad	0.0020	U	ug/L	P414735	
		Triclopyr	0.0040	U	ug/L	P414735	
2332308	EPA 8270E	Aldrin	0.68	U	ng/L	P414711	
		Alpha-BHC	0.10	U	ng/L	P414711	
		Alpha-Chlordane	0.21	U	ng/L	P414711	
		Beta-BHC	0.10	U	ng/L	P414711	
		Beta-Cyfluthrin**	1.3	U	ng/L	P414711	
		Bifenthrin**	0.52	U	ng/L	P414711	
		Chlorothalonil	1.3	U	ng/L	P414711	
		Cis-Nonachlor**	0.21	U	ng/L	P414711	
		Cypermethrin	1.6	U	ng/L	P414711	
		Dacthal**	0.16	U	ng/L	P414711	
		DDD-p,p'	0.26	U	ng/L	P414711	
		DDE-p,p'	0.21	U	ng/L	P414711	
		DDT-p,p'	0.26	U	ng/L	P414711	
		Delta-BHC	0.42	U	ng/L	P414711	
		Deltamethrin**	1.3	U	ng/L	P414711	
		Dichlobenil**	0.26	U	ng/L	P414711	
		Dicofol	1.3	UJ	ng/L	P414711	CCV, LCS, MS, RPD
		Dieldrin	0.42	U	ng/L	P414711	
		Endosulfan I	0.42	U	ng/L	P414711	
		Endosulfan II	0.42	U	ng/L	P414711	
		Endosulfan Sulfate	0.31	U	ng/L	P414711	
		Endrin	0.42	U	ng/L	P414711	
		Endrin Aldehyde	0.78	U	ng/L	P414711	
		Endrin Ketone	0.42	U	ng/L	P414711	
		Esfenvalerate**	0.78	U	ng/L	P414711	
		Ethalfuralin**	0.16	U	ng/L	P414711	
		Fenpropathrin**	0.26	U	ng/L	P414711	
		Gamma-BHC	0.13	U	ng/L	P414711	
		Gamma-Chlordane	0.21	U	ng/L	P414711	
		Heptachlor	0.21	U	ng/L	P414711	
		Heptachlor Epoxide	0.26	U	ng/L	P414711	
		Hexachlorobenzene**	1.0	U	ng/L	P414711	

Field ID: G2TLHR0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332308	EPA 8270E	Kepone**	5.2	U	ng/L	P414711	
		Lambda-Cyhalothrin**	0.78	U	ng/L	P414711	
		Methoprene**	0.78	U	ng/L	P414711	
		Methoxychlor	0.31	U	ng/L	P414711	
		MGK-264**	0.21	U	ng/L	P414711	
		Mirex	0.73	U	ng/L	P414711	
		Oxychlordane**	0.31	U	ng/L	P414711	
		Permethrin	1.7	U	ng/L	P414711	
		Phenothrin**	0.94	U	ng/L	P414711	
		Piperonyl Butoxide**	0.16	U	ng/L	P414711	
		Prallethrin**	2.1	U	ng/L	P414711	
		Tau-Fluvalinate**	0.26	U	ng/L	P414711	
		Tetramethrin**	0.78	U	ng/L	P414711	
		Trans-Nonachlor**	0.21	U	ng/L	P414711	
		Triclosan Methyl**	0.16	U	ng/L	P414711	
		Trifluralin	0.21	U	ng/L	P414711	
	EPA 8276	Chlordane	2.6	U	ng/L	P414711	
		Toxaphene	16	U	ng/L	P414711	
2332309	EPA 8270E	Acetochlor	0.72	I	ng/L	P415071	
		Alachlor	0.25	U	ng/L	P415071	
		Ametryn	0.61	U	ng/L	P415071	
		Atrazine	14		ng/L	P415071	
		Atrazine Desethyl	2.7	I	ng/L	P415071	
		Azinphos Methyl	2.0	U	ng/L	P415071	
		Azoxystrobin**	3.5		ng/L	P415071	
		Bromacil	0.51	U	ng/L	P415071	
		Butylate	0.41	U	ng/L	P415071	
		Caffeine**	12	I	ng/L	P415071	
		Carbophenothion	0.20	U	ng/L	P415071	
		Carfentrazone Ethyl**	0.10	U	ng/L	P415071	
		Chlorfenapyr**	0.18	U	ng/L	P415071	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P415071	
		Chlorpyrifos Methyl	0.051	U	ng/L	P415071	
		Coumaphos**	0.51	U	ng/L	P415071	
		Cyanazine	3.3	U	ng/L	P415071	
		Cyprodinil**	0.17	I	ng/L	P415071	
		Demeton	1.5	U	ng/L	P415071	
		Diazinon	0.13	U	ng/L	P415071	
		Difenoconazole**	1.0	I	ng/L	P415071	
		Dimethenamid**	0.10	U	ng/L	P415071	
		Dimethomorph**	0.18	U	ng/L	P415071	
		Disulfoton	0.51	U	ng/L	P415071	
		Dithiopyr**	0.18	U	ng/L	P415071	
		EPTC	1.3	U	ng/L	P415071	
		Ethion	0.15	U	ng/L	P415071	

Field ID: G2TLHR0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332309	EPA 8270E	Ethoprop	0.10	U	ng/L	P415071	
		Etridiazole**	0.15	U	ng/L	P415071	
		Fenamiphos	0.51	U	ng/L	P415071	
		Fenbuconazole**	0.13	U	ng/L	P415071	
		Fipronil	0.25	U	ng/L	P415071	
		Fipronil Desulfinyl**	0.13	U	ng/L	P415071	
		Fipronil Sulfide	0.15	U	ng/L	P415071	
		Fipronil Sulfone	0.15	U	ng/L	P415071	
		Fluazifop-P-butyl**	0.10	U	ng/L	P415071	
		Fludioxonil**	1.6		ng/L	P415071	
		Flumioxazin**	1.8	U	ng/L	P415071	
		Flutolanil**	0.34	I	ng/L	P415071	
		Fluxapyroxad**	3.3		ng/L	P415071	
		Fonofos	0.20	U	ng/L	P415071	
		Hexazinone	0.66	I	ng/L	P415071	
		Imazalil**	0.76	U	ng/L	P415071	
		Iprodione**	0.61	U	ng/L	P415071	
		Loratadine**	0.10	U	ng/L	P415071	
		Malathion	0.36	U	ng/L	P415071	
		Metalaxyl	1.2	I	ng/L	P415071	
		Metolachlor	40		ng/L	P415071	
		Metribuzin	2.5	U	ng/L	P415071	
		Mevinphos	1.1	U	ng/L	P415071	
		Molinate	0.30	U	ng/L	P415071	
		Myclobutanil**	0.25	U	ng/L	P415071	
		Naled**	1.5	UJ	ng/L	P415071	LCS
		Napropamide**	0.41	U	ng/L	P415071	
		Norflurazon	0.57	I	ng/L	P415071	
		Oxadiazon	0.30	U	ng/L	P415071	
		Oxyfluorfen**	0.15	U	ng/L	P415071	
		Parathion Ethyl	0.25	U	ng/L	P415071	
		Parathion Methyl	0.56	U	ng/L	P415071	
		Pendimethalin	1.0	U	ng/L	P415071	
		Phenytol**	3.6	U	ng/L	P415071	
		Phorate	0.53	U	ng/L	P415071	
		Prodiamine**	0.18	U	ng/L	P415071	
		Prometon	0.91	U	ng/L	P415071	
		Prometryn	0.20	U	ng/L	P415071	
		Pronamide**	0.15	U	ng/L	P415071	
		Propanil**	0.13	U	ng/L	P415071	
		Propargite**	1.5	U	ng/L	P415071	
		Propiconazole**	1.2	I	ng/L	P415071	
		Pyraflufen Ethyl**	0.25	U	ng/L	P415071	
		Pyridaben**	0.46	U	ng/L	P415071	
		Pyriproxyfen**	0.13	U	ng/L	P415071	

Field ID: G2TLHR0092

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332309	EPA 8270E	Simazine	0.51	U	ng/L	P415071	LCS, MS, RPD
		Stirophos**	0.13	UJ	ng/L	P415071	
		Sulfentrazone**	0.51	U	ng/L	P415071	
		Tebuconazole**	1.1	I	ng/L	P415071	
		Terbufos	0.10	U	ng/L	P415071	
		Terbuthylazine	0.43	U	ng/L	P415071	
		Thiobencarb**	0.61	U	ng/L	P415071	
		Triadimefon**	0.25	U	ng/L	P415071	
2332317	EPA 200.7 Rev. 4.4	Calcium	6.69		mg/L	P414861	
		Iron	500		ug/L	P414861	
		Magnesium	3.07		mg/L	P414861	
		Potassium	0.98	I	mg/L	P414861	
		Sodium	2.6		mg/L	P414861	
		Strontium	24.8		ug/L	P414861	
		Tin	3.0	U	ug/L	P414861	
		Titanium	1.8	I	ug/L	P414861	
	EPA 200.8 Rev. 5.4	Vanadium	2.0	U	ug/L	P414861	
		Zinc	5.0	U	ug/L	P414861	
		Aluminum	120		ug/L	P414861	
		Antimony	0.050	U	ug/L	P414861	
		Arsenic	0.48		ug/L	P414861	
		Barium	27.4		ug/L	P414861	
		Beryllium	0.012	I	ug/L	P414861	
		Boron**	11.6		ug/L	P414861	
		Cadmium	0.020	U	ug/L	P414861	
		Chromium	0.40	U	ug/L	P414861	
		Cobalt	0.081		ug/L	P414861	
		Copper	0.63	I	ug/L	P414861	
		Lead	0.20	U	ug/L	P414861	
		Manganese	34.4		ug/L	P414861	
		Molybdenum	0.15	U	ug/L	P414861	
		Nickel	0.50	U	ug/L	P414861	
		Selenium	0.20	U	ug/L	P414861	
		Silver	0.010	U	ug/L	P414861	
		Thallium	0.10	U	ug/L	P414861	
	SM 2340 B-2011	Hardness	29.3		mg/L	P414861	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8321B: MS accuracy and precision for bentazon could not be assessed due to high concentration of parameter in the spiked sample. MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

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

EPA 8270E: MS accuracy for atrazine and metolachlor 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 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Collection Date/Time: 06/06/2022 10:50

Field ID: FB_06062022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332307	EPA 8321B	Ibuprofen	0.020	U	ug/L	P414735	
		Imidacloprid	0.0020	U	ug/L	P414735	
		Linuron	0.0040	U	ug/L	P414735	
		Mandestrobin	0.0020	U	ug/L	P414735	
		MCP	0.0040	U	ug/L	P414735	
		Naproxen	0.0080	U	ug/L	P414735	
		Primidone	0.0040	U	ug/L	P414735	
		Pyraclostrobin	0.0020	U	ug/L	P414735	
		Silvex	0.0040	U	ug/L	P414735	
		Thiamethoxam	0.0020	U	ug/L	P414735	
		Tolfenpyrad	0.0020	U	ug/L	P414735	
		Triclopyr	0.0040	U	ug/L	P414735	
2332315	EPA 8270E	Aldrin	0.73	U	ng/L	P414711	
		Alpha-BHC	0.11	U	ng/L	P414711	
		Alpha-Chlordane	0.22	U	ng/L	P414711	
		Beta-BHC	0.11	U	ng/L	P414711	
		Beta-Cyfluthrin**	1.4	U	ng/L	P414711	
		Bifenthrin**	0.56	U	ng/L	P414711	
		Chlorothalonil	1.4	U	ng/L	P414711	
		Cis-Nonachlor**	0.22	U	ng/L	P414711	
		Cypermethrin	1.7	U	ng/L	P414711	
		Dacthal**	0.17	U	ng/L	P414711	
		DDD-p,p'	0.28	U	ng/L	P414711	
		DDE-p,p'	0.22	U	ng/L	P414711	
		DDT-p,p'	0.28	U	ng/L	P414711	
		Delta-BHC	0.45	U	ng/L	P414711	
		Deltamethrin**	1.4	U	ng/L	P414711	
		Dichlobenil**	0.28	U	ng/L	P414711	
		Dicofol	1.4	UJ	ng/L	P414711	CCV, LCS, MS, RPD
		Dieldrin	0.45	U	ng/L	P414711	
		Endosulfan I	0.45	U	ng/L	P414711	
		Endosulfan II	0.45	U	ng/L	P414711	
		Endosulfan Sulfate	0.34	U	ng/L	P414711	
		Endrin	0.45	U	ng/L	P414711	
		Endrin Aldehyde	0.84	U	ng/L	P414711	
		Endrin Ketone	0.45	U	ng/L	P414711	
		Esfenvalerate**	0.84	U	ng/L	P414711	
		Ethalfuralin**	0.17	U	ng/L	P414711	
		Fenpropathrin**	0.28	U	ng/L	P414711	
		Gamma-BHC	0.14	U	ng/L	P414711	
		Gamma-Chlordane	0.22	U	ng/L	P414711	
		Heptachlor	0.22	U	ng/L	P414711	
		Heptachlor Epoxide	0.28	U	ng/L	P414711	
		Hexachlorobenzene**	1.1	U	ng/L	P414711	

Field ID: FB_06062022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332315	EPA 8270E	Kepone**	5.6	U	ng/L	P414711	
		Lambda-Cyhalothrin**	0.84	U	ng/L	P414711	
		Methoprene**	0.84	U	ng/L	P414711	
		Methoxychlor	0.34	U	ng/L	P414711	
		MGK-264**	0.22	U	ng/L	P414711	
		Mirex	0.78	U	ng/L	P414711	
		Oxychlordane**	0.34	U	ng/L	P414711	
		Permethrin	1.8	U	ng/L	P414711	
		Phenothrin**	1.0	U	ng/L	P414711	
		Piperonyl Butoxide**	0.17	U	ng/L	P414711	
		Prallethrin**	2.2	U	ng/L	P414711	
		Tau-Fluvalinate**	0.28	U	ng/L	P414711	
		Tetramethrin**	0.84	U	ng/L	P414711	
		Trans-Nonachlor**	0.22	U	ng/L	P414711	
		Triclosan Methyl**	0.17	U	ng/L	P414711	
		Trifluralin	0.22	U	ng/L	P414711	
		Chlordane	2.8	U	ng/L	P414711	
		Toxaphene	17	U	ng/L	P414711	
		Acetochlor	0.24	U	ng/L	P415071	
		Alachlor	0.24	U	ng/L	P415071	
2332316	EPA 8270E	Ametryn	0.58	U	ng/L	P415071	
		Atrazine	0.24	U	ng/L	P415071	
		Atrazine Desethyl	1.5	U	ng/L	P415071	
		Azinphos Methyl	1.9	U	ng/L	P415071	
		Azoxystrobin**	0.48	U	ng/L	P415071	
		Bromacil	0.48	U	ng/L	P415071	
		Butylate	0.39	U	ng/L	P415071	
		Caffeine**	7.3	U	ng/L	P415071	
		Carbophenothion	0.19	U	ng/L	P415071	
		Carfentrazone Ethyl**	0.097	U	ng/L	P415071	
		Chlorfenapyr**	0.17	U	ng/L	P415071	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P415071	
		Chlorpyrifos Methyl	0.048	U	ng/L	P415071	
		Coumaphos**	0.48	U	ng/L	P415071	
		Cyanazine	3.1	U	ng/L	P415071	
		Cyprodinil**	0.097	U	ng/L	P415071	
		Demeton	1.5	U	ng/L	P415071	
		Diazinon	0.12	U	ng/L	P415071	
		Difenoconazole**	0.58	U	ng/L	P415071	
		Dimethenamid**	0.097	U	ng/L	P415071	
		Dimethomorph**	0.17	U	ng/L	P415071	
		Disulfoton	0.48	U	ng/L	P415071	
		Dithiopyr**	0.17	U	ng/L	P415071	
		EPTC	1.2	U	ng/L	P415071	
		Ethion	0.15	U	ng/L	P415071	

Field ID: FB_06062022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332316	EPA 8270E	Ethoprop	0.097	U	ng/L	P415071	
		Etridiazole**	0.15	U	ng/L	P415071	
		Fenamiphos	0.48	U	ng/L	P415071	
		Fenbuconazole**	0.12	U	ng/L	P415071	
		Fipronil	0.24	U	ng/L	P415071	
		Fipronil Desulfinyl**	0.12	U	ng/L	P415071	
		Fipronil Sulfide	0.15	U	ng/L	P415071	
		Fipronil Sulfone	0.15	U	ng/L	P415071	
		Fluazifop-P-butyl**	0.097	U	ng/L	P415071	
		Fludioxonil**	0.12	U	ng/L	P415071	
		Flumioxazin**	1.7	U	ng/L	P415071	
		Flutolanil**	0.097	U	ng/L	P415071	
		Fluxapyroxad**	0.097	U	ng/L	P415071	
		Fonofos	0.19	U	ng/L	P415071	
		Hexazinone	0.48	U	ng/L	P415071	
		Imazalil**	0.73	U	ng/L	P415071	
		Iprodione**	0.58	U	ng/L	P415071	
		Loratadine**	0.097	U	ng/L	P415071	
		Malathion	0.34	U	ng/L	P415071	
		Metalaxyl	0.73	U	ng/L	P415071	
		Metolachlor	0.34	U	ng/L	P415071	
		Metribuzin	2.4	U	ng/L	P415071	
		Mevinphos	1.0	U	ng/L	P415071	
		Molinate	0.29	U	ng/L	P415071	
		Myclobutanil**	0.24	U	ng/L	P415071	
		Naled**	1.5	UJ	ng/L	P415071	LCS
		Napropamide**	0.39	U	ng/L	P415071	
		Norflurazon	0.48	U	ng/L	P415071	
		Oxadiazon	0.29	U	ng/L	P415071	
		Oxyfluorfen**	0.15	U	ng/L	P415071	
		Parathion Ethyl	0.24	U	ng/L	P415071	
		Parathion Methyl	0.53	U	ng/L	P415071	
		Pendimethalin	0.97	U	ng/L	P415071	
		Phenytol**	3.4	U	ng/L	P415071	
		Phorate	0.51	U	ng/L	P415071	
		Prodiamine**	0.17	U	ng/L	P415071	
		Prometon	0.87	U	ng/L	P415071	
		Prometryn	0.19	U	ng/L	P415071	
		Pronamide**	0.15	U	ng/L	P415071	
		Propanil**	0.12	U	ng/L	P415071	
		Propargite**	1.5	U	ng/L	P415071	
		Propiconazole**	0.48	U	ng/L	P415071	
		Pyraflufen Ethyl**	0.24	U	ng/L	P415071	
		Pyridaben**	0.44	U	ng/L	P415071	
		Pyriproxyfen**	0.12	U	ng/L	P415071	

Field ID: FB_06062022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332316	EPA 8270E	Simazine	0.48	U	ng/L	P415071	LCS, MS, RPD
		Stirophos**	0.12	UJ	ng/L	P415071	
		Sulfentrazone**	0.48	U	ng/L	P415071	
		Tebuconazole**	0.48	U	ng/L	P415071	
		Terbufos	0.097	U	ng/L	P415071	
		Terbuthylazine	0.41	U	ng/L	P415071	
		Thiobencarb**	0.58	U	ng/L	P415071	
		Triadimefon**	0.24	U	ng/L	P415071	
2332323	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P414861	
		Iron	30	U	ug/L	P414861	
		Magnesium	0.040	U	mg/L	P414861	
		Potassium	0.30	U	mg/L	P414861	
		Sodium	0.50	U	mg/L	P414861	
		Strontium	2.0	U	ug/L	P414861	
		Tin	3.0	U	ug/L	P414861	
		Titanium	0.75	U	ug/L	P414861	
	EPA 200.8 Rev. 5.4	Vanadium	2.0	U	ug/L	P414861	
		Zinc	5.0	U	ug/L	P414861	
		Aluminum	5.0	U	ug/L	P414861	
		Antimony	0.050	U	ug/L	P414861	
		Arsenic	0.050	U	ug/L	P414861	
		Barium	0.20	U	ug/L	P414861	
		Beryllium	0.010	U	ug/L	P414861	
		Boron**	2.0	U	ug/L	P414861	
		Cadmium	0.020	U	ug/L	P414861	
		Chromium	0.40	U	ug/L	P414861	
		Cobalt	0.020	U	ug/L	P414861	
		Copper	0.40	U	ug/L	P414861	
		Lead	0.20	U	ug/L	P414861	
		Manganese	0.10	U	ug/L	P414861	
		Molybdenum	0.15	U	ug/L	P414861	
		Nickel	0.50	U	ug/L	P414861	
		Selenium	0.20	U	ug/L	P414861	
		Silver	0.010	U	ug/L	P414861	
		Thallium	0.10	U	ug/L	P414861	
	SM 2340 B-2011	Hardness	0.35	U	mg/L	P414861	

Ref. Method and Comment:

SM 2320 B-2011: The MDL was elevated due to analytical difficulties.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 5310 B-2011: The result was confirmed on 06/13/2022.

EPA 8321B: MS accuracy and precision for bentazon could not be assessed due to high concentration of parameter in the spiked sample. MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

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

EPA 8270E: MS accuracy for atrazine and metolachlor 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 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Flat Creek @ CR269

Collection Date/Time: 06/06/2022 11:20

Field ID: G2TLHR0020

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332276	DEP SOP: NU-094-1	Color (true)**	30		PCU	P414843	
	EPA 180.1 Rev. 2.0	Turbidity	45		NTU	P414847	
	EPA 300.0 Rev. 2.1	Sulfate	0.73		mg SO4/L	P415047	
	SM 2320 B-2011	Total Alkalinity	12		mg CaCO3/L	P415387	
	SM 2540 C-2011	TDS	37		mg/L	P415242	
	SM 2540 D-2011	TSS	47		mg/L	P415245	
	SM 4500-F- C-2011	Fluoride	0.083	I	mg F/L	P415392	
2332281	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P415441	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.59		mg N/L	P414869	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.25		mg N/L	P415347	
	EPA 365.1 Rev. 2.0	Total-P	0.35		mg P/L	P414900	MS
	SM 5310 B-2011	Organic Carbon	5.2		mg C/L	P414934	
2332286	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.088		mg P/L	P414840	
2332320	EPA 200.7 Rev. 4.4	Calcium	4.00		mg/L	P414861	
		Iron	1.72E+03		ug/L	P414861	
		Magnesium	1.64		mg/L	P414861	
		Potassium	0.62	I	mg/L	P414861	
		Sodium	1.9	I	mg/L	P414861	
		Strontium	12.0		ug/L	P414861	
		Tin	3.0	U	ug/L	P414861	
	EPA 200.8 Rev. 5.4	Titanium	4.4		ug/L	P414861	
		Vanadium	2.0	U	ug/L	P414861	
		Zinc	5.0	U	ug/L	P414861	
		Aluminum	454		ug/L	P414861	
		Antimony	0.050	U	ug/L	P414861	
		Arsenic	0.87		ug/L	P414861	
		Barium	17.4		ug/L	P414861	
		Beryllium	0.054		ug/L	P414861	
		Boron**	9.6		ug/L	P414861	
		Cadmium	0.030	I	ug/L	P414861	
		Chromium	0.68	I	ug/L	P414861	
		Cobalt	0.375		ug/L	P414861	
		Copper	0.40	U	ug/L	P414861	
		Lead	0.45		ug/L	P414861	
		Manganese	55.6		ug/L	P414861	
		Molybdenum	0.15	U	ug/L	P414861	
		Nickel	0.50	U	ug/L	P414861	
		Selenium	0.20	U	ug/L	P414861	
		Silver	0.010	U	ug/L	P414861	
		Thallium	0.10	U	ug/L	P414861	
	SM 2340 B-2011	Hardness	16.7		mg/L	P414861	

Field ID: G2TLHR0020

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Crooked Creek @ Aspalaga Rd

Collection Date/Time: 06/06/2022 11:40

Field ID: G2TLHR0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332277	DEP SOP: NU-094-1	Color (true)**	42		PCU	P414833	
	EPA 180.1 Rev. 2.0	Turbidity	12		NTU	P414847	
	EPA 300.0 Rev. 2.1	Sulfate	0.72		mg SO4/L	P415047	
	SM 2320 B-2011	Total Alkalinity	9.0		mg CaCO3/L	P415387	
	SM 2540 C-2011	TDS	27		mg/L	P415242	
	SM 2540 D-2011	TSS	16		mg/L	P415245	
	SM 4500-F- C-2011	Fluoride	0.063	I	mg F/L	P415392	
2332282	EPA 350.1 Rev. 2.0	Ammonia-N	0.019		mg N/L	P415441	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26	J	mg N/L	P414870	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.18		mg N/L	P415347	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P414900	MS
	SM 5310 B-2011	Organic Carbon	3.0		mg C/L	P414934	
2332287	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.086		mg P/L	P414840	
2332321	EPA 200.7 Rev. 4.4	Calcium	2.87		mg/L	P414861	
		Iron	740		ug/L	P414861	
		Magnesium	1.05		mg/L	P414861	
		Potassium	0.30	U	mg/L	P414861	
		Sodium	1.4	I	mg/L	P414861	
		Strontium	7.9	I	ug/L	P414861	
		Tin	3.0	U	ug/L	P414861	
		Titanium	4.7		ug/L	P414861	
		Vanadium	2.0	U	ug/L	P414861	
		Zinc	5.0	U	ug/L	P414861	
	EPA 200.8 Rev. 5.4	Aluminum	433		ug/L	P414861	
		Antimony	0.050	U	ug/L	P414861	
		Arsenic	0.52		ug/L	P414861	
		Barium	10.5		ug/L	P414861	
		Beryllium	0.027	I	ug/L	P414861	
		Boron**	7.1	I	ug/L	P414861	
		Cadmium	0.021	I	ug/L	P414861	
		Chromium	0.69	I	ug/L	P414861	
		Cobalt	0.181		ug/L	P414861	
		Copper	0.40	U	ug/L	P414861	
		Lead	0.35	I	ug/L	P414861	
		Manganese	22.6		ug/L	P414861	
		Molybdenum	0.15	U	ug/L	P414861	
		Nickel	0.50	U	ug/L	P414861	
		Selenium	0.20	U	ug/L	P414861	
		Silver	0.010	U	ug/L	P414861	
		Thallium	0.10	U	ug/L	P414861	
	SM 2340 B-2011	Hardness	11.5		mg/L	P414861	

Field ID: G2TLHR0010

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Crooked Creek @ SR270

Collection Date/Time: 06/06/2022 11:50

Field ID: G2TLHR0056

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2332278	DEP SOP: NU-094-1	Color (true)**	36	A	PCU	P414833	
	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P414847	
	EPA 300.0 Rev. 2.1	Sulfate	0.77		mg SO4/L	P415047	
	SM 2320 B-2011	Total Alkalinity	5.0		mg CaCO3/L	P415387	
	SM 2540 C-2011	TDS	27		mg/L	P415242	
	SM 2540 D-2011	TSS	12		mg/L	P415245	
	SM 4500-F- C-2011	Fluoride	0.060	I	mg F/L	P415392	
2332283	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P415441	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.25		mg N/L	P414870	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.22		mg N/L	P415347	
	EPA 365.1 Rev. 2.0	Total-P	0.20	J	mg P/L	P414900	MS
	SM 5310 B-2011	Organic Carbon	2.8		mg C/L	P414934	
2332288	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.11		mg P/L	P414840	
2332322	EPA 200.7 Rev. 4.4	Calcium	1.95		mg/L	P414861	
		Iron	520		ug/L	P414861	
		Magnesium	0.61		mg/L	P414861	
		Potassium	0.30	U	mg/L	P414861	
		Sodium	1.4	I	mg/L	P414861	
		Strontium	6.4	I	ug/L	P414861	
		Tin	3.0	U	ug/L	P414861	
		Titanium	5.1		ug/L	P414861	
		Vanadium	2.0	U	ug/L	P414861	
		Zinc	5.0	U	ug/L	P414861	
	EPA 200.8 Rev. 5.4	Aluminum	323		ug/L	P414861	
		Antimony	0.050	U	ug/L	P414861	
		Arsenic	0.42		ug/L	P414861	
		Barium	9.74		ug/L	P414861	
		Beryllium	0.025	I	ug/L	P414861	
		Boron**	7.3	I	ug/L	P414861	
		Cadmium	0.023	I	ug/L	P414861	
		Chromium	0.48	I	ug/L	P414861	
		Cobalt	0.162		ug/L	P414861	
		Copper	0.40	U	ug/L	P414861	
		Lead	0.24	I	ug/L	P414861	
		Manganese	15.1		ug/L	P414861	
		Molybdenum	0.15	U	ug/L	P414861	
		Nickel	0.50	U	ug/L	P414861	
		Selenium	0.20	U	ug/L	P414861	
		Silver	0.010	U	ug/L	P414861	
		Thallium	0.10	U	ug/L	P414861	
	SM 2340 B-2011	Hardness	7.4		mg/L	P414861	

Field ID: G2TLHR0056

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 365.1 Rev. 2.0: Total-P: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P414833

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P414843

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414847

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414848

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P414861

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: P414861

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414861

Component	Result	Code	Units
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415274

Component	Result	Code	Units
Lead	0.20	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415044

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415047

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415441

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414869

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414870

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415359

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415534

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415347

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414900

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415465

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414840

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

Reference Method: EPA 8270E
Batch ID: P414711

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414711

Component	Result	Code	Units
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
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	0.70	U	ng/L
Mirex	0.70	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P414711

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

Reference Method: EPA 8270E

Batch ID: P415071

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415071

Component	Result	Code	Units
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	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415071

Component	Result	Code	Units
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	0.10	U	ng/L
Loratadine	0.10	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	2.5	U	ng/L
Metribuzin	2.5	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
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
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P415071

Component	Result	Code	Units
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
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L
Terbutylazine	0.42	U	ng/L
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: P414711

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: EPA 8321B

Batch ID: P414735

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P414735

Component	Result	Code	Units
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	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: P414737

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

Reference Method: EPA 8321B

Batch ID: P414771

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: SM 2320 B-2011

Batch ID: P415387

Component	Result	Code	Units
Total Alkalinity	1.0	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011

Batch ID: P415242

Component	Result	Code	Units
TDS	15	U	mg/L

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Method Blank Results

Reference Method: SM 2540 D-2011
Batch ID: P415245

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P415392

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P414934

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: P414833

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P414843

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414847

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414848

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.7		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P414861

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	96.8		P	85 - 115
Iron	96.1		P	85 - 115
Magnesium	96.7		P	85 - 115
Potassium	97.4		P	85 - 115
Sodium	97.5		P	85 - 115
Strontium	102		P	85 - 115
Tin	101		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	94.5		P	85 - 115
Zinc	99.4		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414861

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	99.5		P	85 - 115
Arsenic	98.9		P	85 - 115
Barium	103		P	85 - 115
Beryllium	94.8		P	85 - 115
Boron	103		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	97.4		P	85 - 115
Cobalt	100		P	85 - 115
Copper	97.3		P	85 - 115
Lead	100		P	85 - 115
Manganese	98.0		P	85 - 115
Molybdenum	98.7		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414861

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Nickel	97.9		P	85 - 115
Selenium	97.3		P	85 - 115
Silver	105		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415274

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Lead	98.3		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415044

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415047

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415441

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414869

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414870

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415359

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415534

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415347

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414900

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415465

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414840

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.9		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P414711

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.6		P	10 - 93.0
Alpha-BHC	91.1		P	75 - 106
Alpha-Chlordane	52.9		P	50 - 109
Beta-BHC	85.4		P	36 - 138
Beta-Cyfluthrin	70.6		P	23 - 167
Bifenthrin	52.6		P	11 - 123
Chlorothalonil	104		P	27 - 190
Cis-Nonachlor	57.1		P	40 - 111
Cypermethrin	73.5		P	25 - 155
Dacthal	79.1		P	72 - 119
DDD-p,p'	58.1		P	47 - 108
DDE-p,p'	65.6		P	48 - 107
DDT-p,p'	65.0		P	49 - 111
Delta-BHC	98.5		P	54 - 138
Deltamethrin	65.7		P	22 - 189
Dichlobenil	73.2		P	32 - 113
Dicofol	189		F	50 - 108
Dieldrin	57.8		P	56 - 110
Endosulfan I	70.6		P	60 - 105
Endosulfan II	76.9		P	50 - 120
Endosulfan Sulfate	80.7		P	55 - 121
Endrin	69.2		P	31 - 119
Endrin Aldehyde	68.7		P	36 - 116
Endrin Ketone	84.7		P	69 - 177
Esfenvalerate	73.4		P	10 - 179
Ethalfuralin	71.1		P	49 - 99.0
Fenpropathrin	65.9		P	35 - 119
Gamma-BHC	95.1		P	69 - 120

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P414711

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-Chlordane	54.9		P	45 - 107
Heptachlor	61.6		P	41 - 100
Heptachlor Epoxide	59.1		P	58 - 106
Hexachlorobenzene	58.0		P	39 - 100
Kepone	86.6		P	10 - 191
Lambda-Cyhalothrin	63.1		P	21 - 206
Methoprene	59.9		P	10 - 129
Methoxychlor	75.2		P	61 - 111
MGK-264	73.7		P	20 - 123
Mirex	55.2		P	10 - 182
Oxychlordane	66.6		P	39 - 110
Permethrin	68.1		P	26 - 152
Phenothrin	53.2		P	10 - 109
Piperonyl Butoxide	87.4		P	19 - 147
Prallethrin	64.7		P	14 - 109
Tau-Fluvalinate	66.7		P	16 - 134
Tetramethrin	82.1		P	10 - 125
Trans-Nonachlor	60.3		P	45 - 107
Triclosan Methyl	67.7		P	60 - 110
Trifluralin	68.1		P	44 - 101

Reference Method: EPA 8270E
Batch ID: P415071

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	111		P	70 - 121
Alachlor	100		P	68 - 119
Ametryn	118		P	64 - 139
Atrazine	98.4		P	76 - 120
Atrazine Desethyl	69.9		P	44 - 126
Azinphos Methyl	170		P	43 - 192
Azoxystrobin	96.9		P	36 - 224
Bromacil	95.7		P	52 - 121
Butylate	41.7		P	28 - 91.0
Caffeine	74.0		P	50 - 134
Carbophenothion	95.9		P	56 - 129
Carfentrazone Ethyl	129		P	60 - 141
Chlorfenapyr	81.8		P	56 - 115
Chlorpyrifos Ethyl	82.6		P	60 - 118
Chlorpyrifos Methyl	82.3		P	68 - 119
Coumaphos	114		P	18 - 250
Cyanazine	159		P	61 - 250
Cyprodinil	111		P	55 - 145
Demeton	64.4		P	30 - 159
Diazinon	107		P	70 - 123
Difenoconazole	197		P	49 - 204
Dimethenamid	93.4		P	64 - 115
Dimethomorph	77.1		P	12 - 219
Disulfoton	75.9		P	44 - 125
Dithiopyr	104		P	64 - 115
EPTC	44.1		P	28 - 86.0
Ethion	73.7		P	33 - 125

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Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P415071

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ethoprop	71.1		P	64 - 116
Etridiazole	67.5		P	34 - 91.0
Fenamiphos	87.9		P	12 - 127
Fenbuconazole	146		P	59 - 151
Fipronil	108		P	67 - 129
Fipronil Desulfinyl	105		P	65 - 127
Fipronil Sulfide	78.5		P	61 - 116
Fipronil Sulfone	86.1		P	55 - 117
Fluazifop-P-butyl	103		P	62 - 127
Fludioxonil	112		P	62 - 128
Flumioxazin	222		P	33 - 250
Flutolanil	97.3		P	56 - 127
Fluxapyroxad	84.3		P	45 - 128
Fonofos	72.2		P	62 - 111
Hexazinone	98.0		P	46 - 139
Imazalil	94.2		P	38 - 142
Iprodione	107		P	47 - 135
Loratadine	69.4		P	10 - 244
Malathion	101		P	61 - 139
Metalaxyl	96.0		P	10 - 119
Metolachlor	106		P	65 - 118
Metribuzin	91.5		P	51 - 250
Mevinphos	58.6		P	53 - 121
Molinate	55.9		P	42 - 96.0
Myclobutanil	110		P	55 - 128
Naled	105		F	10 - 98.0
Napropamide	86.0		P	49 - 121
Norflurazon	117		P	61 - 126
Oxadiazon	90.7		P	59 - 116
Oxyfluorfen	129		P	64 - 137
Parathion Ethyl	89.9		P	70 - 112
Parathion Methyl	106		P	76 - 133
Pendimethalin	81.7		P	52 - 117
Phenytoin	112		P	10 - 199
Phorate	50.8		P	48 - 121
Prodiamine	98.4		P	26 - 142
Prometon	107		P	43 - 123
Prometryn	102		P	66 - 127
Pronamide	112		P	75 - 121
Propanil	88.5		P	45 - 150
Propargite	145		P	42 - 208
Propiconazole	110		P	60 - 125
Pyraflufen Ethyl	117		P	70 - 138
Pyridaben	99.3		P	35 - 245
Pyriproxyfen	142		P	30 - 149
Simazine	98.6		P	72 - 125
Stirophos	16.8		F	29 - 164
Sulfentrazone	139		P	21 - 139
Tebuconazole	58.1		P	10 - 115
Terbufos	80.0		P	60 - 123
Terbuthylazine	89.8		P	72 - 115
Thiobencarb	96.6		P	31 - 139

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P415071

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triadimefon	87.4		P	65 - 116

Reference Method: EPA 8276
Batch ID: P414711

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	91.3		P	61 - 118
Toxaphene	113		P	51 - 122

Reference Method: EPA 8321B
Batch ID: P414735

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	99.5		P	40 - 150
2,4,5-T	90.7		P	40 - 150
Acetaminophen	85.8		P	30 - 150
Acetamiprid	82.0		P	40 - 150
Afidopyropen	44.1		P	30 - 150
Bentazon	90.9		P	30 - 150
Benzovindiflupyr	90.9		P	40 - 150
Carbamazepine	97.5		P	40 - 150
Clothianidin	93.8		P	40 - 150
Dinotefuran	93.0		P	40 - 150
Diuron	79.0		P	40 - 150
Fenuron	90.4		P	40 - 150
Fluridone	82.8		P	40 - 150
Hydrocodone	88.6		P	40 - 150
Ibuprofen	83.6		P	40 - 150
Imazapyr	91.8		P	40 - 150
Imidacloprid	87.1		P	40 - 150
Linuron	71.9		P	40 - 150
Mandestrobin	79.7		P	40 - 150
MCPP	105		P	40 - 150
Naproxen	87.0		P	40 - 150
Primidone	95.1		P	40 - 150
Pyraclostrobin	87.4		P	40 - 150
Silvex	83.3		P	40 - 150
Thiamethoxam	89.1		P	40 - 150
Tolfenpyrad	53.2		P	30 - 150
Triclopyr	89.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P414737

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	82.1		P	40 - 150
Aldicarb	69.1		P	30 - 150
Aldicarb Sulfone	103		P	40 - 150
Aldicarb Sulfoxide	101		P	40 - 150
Carbaryl	84.4		P	40 - 150
Carbofuran	96.4		P	40 - 150
Methiocarb	76.6		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P414737

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Methomyl	87.9		P	40 - 150
Oxamyl	102		P	40 - 150
Propoxur	91.9		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P414771

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	140		P	40 - 150
AMPA	88.9		P	40 - 150
Endothall	75.1		P	40 - 150
Glufosinate	101		P	40 - 150
Glyphosate	90.7		P	40 - 150
Sucralose	113		P	40 - 150

Reference Method: SM 2320 B-2011
Batch ID: P415387

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P415392

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

Reference Method: SM 5310 B-2011
Batch ID: P414934

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	92.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P414861

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331683	Calcium	95.6		P	80 - 120
2331683	Iron	95.1	94.4	P/P	80 - 120
2331683	Magnesium	94.6	93.8	P/P	80 - 120
2331683	Potassium	96.5	96.2	P/P	80 - 120
2331683	Sodium	96.3	95.7	P/P	80 - 120
2331683	Strontium	101	100	P/P	80 - 120
2331683	Tin	99.3	96.4	P/P	80 - 120
2331683	Titanium	100	99.9	P/P	80 - 120
2331683	Vanadium	92.8	92.8	P/P	80 - 120
2331683	Zinc	96.4	94.7	P/P	80 - 120
2331881	Calcium	96.4		P	80 - 120
2331881	Iron	97.8		P	80 - 120
2331881	Magnesium	96.5		P	80 - 120
2331881	Potassium	98.6		P	80 - 120
2331881	Sodium	97.5		P	80 - 120
2331881	Strontium	103		P	80 - 120
2331881	Tin	102		P	80 - 120
2331881	Titanium	103		P	80 - 120
2331881	Vanadium	96.7		P	80 - 120
2331881	Zinc	102		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P414861

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331683	Aluminum	103	105	P/P	80 - 120
2331683	Antimony	102	102	P/P	80 - 120
2331683	Arsenic	98.0	97.4	P/P	80 - 120
2331683	Barium	104	104	P/P	80 - 120
2331683	Beryllium	99.8	95.0	P/P	80 - 120
2331683	Boron	102	101	P/P	80 - 120
2331683	Cadmium	99.8	101	P/P	80 - 120
2331683	Chromium	99.8	100	P/P	80 - 120
2331683	Cobalt	99.4	99.2	P/P	80 - 120
2331683	Copper	95.3	95.9	P/P	80 - 120
2331683	Lead	102	102	P/P	80 - 120
2331683	Molybdenum	102	101	P/P	80 - 120
2331683	Nickel	96.9	96.9	P/P	80 - 120
2331683	Selenium	96.4	93.4	P/P	80 - 120
2331683	Silver	105	105	P/P	80 - 120
2331683	Thallium	103	105	P/P	80 - 120
2331881	Aluminum	102		P	80 - 120
2331881	Antimony	101		P	80 - 120
2331881	Arsenic	98.3		P	80 - 120
2331881	Barium	104		P	80 - 120
2331881	Beryllium	97.9		P	80 - 120
2331881	Boron	92.0		P	80 - 120
2331881	Cadmium	101		P	80 - 120
2331881	Chromium	99.3		P	80 - 120
2331881	Cobalt	98.9		P	80 - 120
2331881	Copper	95.9		P	80 - 120
2331881	Lead	101		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414861

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331881	Manganese	99.3		P	80 - 120
2331881	Molybdenum	101		P	80 - 120
2331881	Nickel	97.1		P	80 - 120
2331881	Selenium	97.1		P	80 - 120
2331881	Silver	104		P	80 - 120
2331881	Thallium	102		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P415274

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2334062	Lead	98.8	98.7	P/P	80 - 120
2334379	Lead	97.6		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415044

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332651	Chloride	95.1		P	90 - 110
2332652	Chloride	98.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P415047

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332651	Sulfate	96.0		P	90 - 110
2332652	Sulfate	98.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P415441

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332273	Ammonia-N	104	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414869

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332273	Kjeldahl Nitrogen	114	94.8	F/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414870

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332282	Kjeldahl Nitrogen	112	100	F/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415359

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332280	Kjeldahl Nitrogen	109	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415534

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332279	Kjeldahl Nitrogen	99.6	92.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415347

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332281	NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414900

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332283	Total-P	111	108	F/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415465

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333840	Total-P	107	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414840

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332284	O-Phosphate-P	96.6	96.9	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P414711

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331768	Aldrin	50.9	56.6	P/P	10 - 89.0
2331768	Alpha-BHC	103	102	P/P	71 - 105
2331768	Alpha-Chlordane	74.4	74.6	P/P	43 - 107
2331768	Beta-BHC	78.1	71.9	P/P	57 - 152
2331768	Beta-Cyfluthrin	45.1	37.7	P/P	29 - 186
2331768	Bifenthrin	35.9	33.6	P/P	19 - 119
2331768	Chlorothalonil	84.8	82.5	P/P	10 - 245
2331768	Cis-Nonachlor	49.9	44.8	P/P	36 - 110
2331768	Cypermethrin	46.9	36.4	P/P	24 - 169
2331768	Dacthal	79.2	72.4	P/P	62 - 115
2331768	DDD-p,p'	42.4	36.7	P/P	36 - 109
2331768	DDE-p,p'	54.9	56.0	P/P	30 - 114
2331768	DDT-p,p'	68.2	72.3	P/P	42 - 108
2331768	Delta-BHC	139	139	P/P	60 - 164
2331768	Deltamethrin	39.8	25.9	P/P	10 - 210
2331768	Dichlobenil	34.7	31.8	P/P	23 - 108
2331768	Dicofol	188	142	F/F	44 - 109
2331768	Dieldrin	65.2	65.9	P/P	37 - 119
2331768	Endosulfan I	67.6	68.4	P/P	52 - 105
2331768	Endosulfan II	93.7	95.7	P/P	35 - 127
2331768	Endosulfan Sulfate	72.7	55.8	P/P	39 - 130
2331768	Endrin	60.7	57.7	P/P	30 - 116

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P414711

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331768	Endrin Aldehyde	83.7	68.8	P/P	20 - 110
2331768	Endrin Ketone	95.2	95.9	P/P	48 - 134
2331768	Esfenvalerate	52.1	43.6	P/P	10 - 199
2331768	Ethalfuralin	75.4	75.2	P/P	48 - 95.0
2331768	Fenpropathrin	56.6	61.4	P/P	37 - 121
2331768	Gamma-BHC	82.2	89.9	P/P	61 - 126
2331768	Gamma-Chlordane	68.8	69.9	P/P	39 - 105
2331768	Heptachlor	78.0	77.1	P/P	38 - 96.0
2331768	Heptachlor Epoxide	71.4	67.3	P/P	42 - 114
2331768	Hexachlorobenzene	65.2	61.6	P/P	39 - 93.0
2331768	Kepone	176	105	P/P	10 - 215
2331768	Lambda-Cyhalothrin	38.3	30.1	P/P	10 - 204
2331768	Methoprene	57.6	66.1	P/P	17 - 108
2331768	Methoxychlor	76.7	80.0	P/P	56 - 115
2331768	MGK-264	71.2	62.0	P/P	35 - 120
2331768	Mirex	43.6	51.7	P/P	10 - 178
2331768	Oxychlordane	67.3	73.2	P/P	47 - 91.0
2331768	Permethrin	44.6	35.0	P/P	27 - 170
2331768	Phenothrin	26.8	21.5	P/P	10 - 133
2331768	Piperonyl Butoxide	67.1	48.8	P/P	23 - 150
2331768	Prallethrin	57.2	40.9	P/P	21 - 113
2331768	Tau-Fluvalinate	38.2	28.0	P/P	16 - 158
2331768	Tetramethrin	52.6	41.8	P/P	22 - 132
2331768	Trans-Nonachlor	54.4	50.4	P/P	43 - 102
2331768	Triclosan Methyl	61.5	51.1	P/P	49 - 109
2331768	Trifluralin	68.3	60.7	P/P	48 - 93.0

Reference Method: EPA 8270E

Batch ID: P415071

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332309	Acetochlor	88.5	106	P/P	65 - 124
2332309	Alachlor	83.7	96.4	P/P	61 - 121
2332309	Ametryn	108	108	P/P	52 - 216
2332309	Atrazine Desethyl	50.1	61.9	P/P	15 - 160
2332309	Azinphos Methyl	143	170	P/P	40 - 292
2332309	Azoxystrobin	70.1	109	P/P	12 - 242
2332309	Bromacil	79.3	96.5	P/P	54 - 167
2332309	Butylate	42.4	54.1	P/P	14 - 94.0
2332309	Caffeine	88.8	83.6	P/P	10 - 226
2332309	Carbophenothion	88.4	99.7	P/P	49 - 122
2332309	Carfentrazone Ethyl	108	125	P/P	53 - 138
2332309	Chlorfenapyr	81.0	85.7	P/P	50 - 150
2332309	Chlorpyrifos Ethyl	75.6	82.4	P/P	52 - 122
2332309	Chlorpyrifos Methyl	80.2	86.5	P/P	66 - 117
2332309	Coumaphos	110	113	P/P	50 - 220
2332309	Cyanazine	94.0	113	P/P	43 - 245
2332309	Cyprodinil	93.4	103	P/P	50 - 150
2332309	Demeton	77.4	84.7	P/P	43 - 188
2332309	Diazinon	88.5	99.9	P/P	69 - 131
2332309	Difenoconazole	174	196	P/P	34 - 231
2332309	Dimethenamid	82.1	91.6	P/P	55 - 118

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415071

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332309	Dimethomorph	78.6	82.9	P/P	50 - 150
2332309	Disulfoton	80.4	84.6	P/P	38 - 141
2332309	Dithiopyr	87.6	94.9	P/P	42 - 116
2332309	EPTC	36.2	52.3	P/P	18 - 85.0
2332309	Ethion	75.8	76.3	P/P	10 - 131
2332309	Ethoprop	71.9	81.3	P/P	65 - 129
2332309	Etridiazole	52.2	63.5	P/P	50 - 150
2332309	Fenamiphos	95.0	99.3	P/P	31 - 137
2332309	Fenbuconazole	126	148	P/P	57 - 160
2332309	Fipronil	91.9	106	P/P	62 - 132
2332309	Fipronil Desulfinyl	85.5	99.0	P/P	57 - 131
2332309	Fipronil Sulfide	78.1	83.6	P/P	15 - 138
2332309	Fipronil Sulfone	85.6	92.3	P/P	21 - 134
2332309	Fluazifop-P-butyl	84.7	98.0	P/P	54 - 133
2332309	Fludioxonil	88.9	111	P/P	58 - 127
2332309	Flumioxazin	202	228	P/P	33 - 300
2332309	Flutolanil	82.6	95.3	P/P	42 - 130
2332309	Fluxapyroxad	62.7	84.0	P/P	23 - 141
2332309	Fonofos	73.6	75.7	P/P	58 - 119
2332309	Hexazinone	89.4	98.2	P/P	68 - 172
2332309	Imazalil	79.1	107	P/P	48 - 283
2332309	Iprodione	103	113	P/P	38 - 140
2332309	Loratadine	73.1	75.0	P/P	50 - 150
2332309	Malathion	97.3	107	P/P	40 - 137
2332309	Metalaxyl	79.8	88.0	P/P	21 - 129
2332309	Metribuzin	105	120	P/P	38 - 187
2332309	Mevinphos	65.6	69.0	P/P	54 - 134
2332309	Molinate	51.1	65.8	P/P	41 - 97.0
2332309	Myclobutanil	95.1	110	P/P	56 - 125
2332309	Naled	92.5	108	P/P	10 - 108
2332309	Napropamide	76.9	82.4	P/P	50 - 150
2332309	Norflurazon	102	115	P/P	32 - 122
2332309	Oxadiazon	78.0	85.4	P/P	40 - 119
2332309	Oxyfluorfen	114	122	P/P	61 - 153
2332309	Parathion Ethyl	81.7	93.3	P/P	59 - 130
2332309	Parathion Methyl	103	113	P/P	65 - 155
2332309	Pendimethalin	90.4	101	P/P	49 - 138
2332309	Phenytol	95.3	107	P/P	50 - 200
2332309	Phorate	72.7	83.1	P/P	54 - 161
2332309	Prodiamine	91.9	106	P/P	33 - 161
2332309	Prometon	71.8	82.6	P/P	48 - 140
2332309	Prometryn	93.3	96.5	P/P	55 - 134
2332309	Pronamide	99.3	111	P/P	66 - 137
2332309	Propanil	76.2	85.6	P/P	50 - 150
2332309	Propargite	117	142	P/P	50 - 200
2332309	Propiconazole	86.7	107	P/P	36 - 150
2332309	Pyraflufen Ethyl	98.5	113	P/P	50 - 150
2332309	Pyridaben	93.4	97.9	P/P	50 - 200
2332309	Pyriproxyfen	120	145	P/P	10 - 165
2332309	Simazine	93.6	106	P/P	57 - 145
2332309	Stirophos	81.4	30.2	P/F	50 - 150
2332309	Sulfentrazone	94.4	109	P/P	34 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P415071

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2332309	Tebuconazole	56.9	63.2	P/P	10 - 127
2332309	Terbufos	80.9	92.1	P/P	59 - 138
2332309	Terbuthylazine	82.4	91.9	P/P	68 - 119
2332309	Thiobencarb	79.7	92.3	P/P	50 - 150
2332309	Triadimefon	70.7	69.6	P/P	50 - 150

Reference Method: EPA 8276

Batch ID: P414711

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331808	Chlordane	91.5	88.0	P/P	55 - 128
2331808	Toxaphene	120	123	P/P	57 - 211

Reference Method: EPA 8321B

Batch ID: P414735

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331275	2,4,5-T	104	97.2	P/P	40 - 150
2331275	Acetaminophen	110	110	P/P	30 - 150
2331275	Acetamiprid	83.9	75.6	P/P	40 - 150
2331275	Afidopyropen	46.4	47.8	P/P	30 - 150
2331275	Benzovindiflupyr	88.0	87.4	P/P	40 - 150
2331275	Carbamazepine	110	108	P/P	40 - 150
2331275	Clothianidin	119	118	P/P	40 - 150
2331275	Dinotefuran	135	130	P/P	40 - 150
2331275	Diuron	79.1	84.5	P/P	40 - 150
2331275	Fenuron	83.8	81.5	P/P	40 - 150
2331275	Fluridone	83.5	83.7	P/P	40 - 150
2331275	Hydrocodone	100	100	P/P	40 - 150
2331275	Ibuprofen	84.4	86.9	P/P	40 - 150
2331275	Imidacloprid	147	137	P/P	40 - 150
2331275	Linuron	69.7	72.7	P/P	40 - 150
2331275	Mandestrobin	83.7	82.5	P/P	40 - 150
2331275	MCPP	123	121	P/P	40 - 150
2331275	Naproxen	91.1	76.2	P/P	40 - 150
2331275	Primidone	118	117	P/P	40 - 150
2331275	Pyraclostrobin	83.6	77.5	P/P	40 - 150
2331275	Silvex	99.6	91.8	P/P	40 - 150
2331275	Thiamethoxam	140	134	P/P	40 - 150
2331275	Tolfenpyrad	57.0	53.6	P/P	30 - 150
2331275	Triclopyr	113	100	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P414737

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330834	3-Hydroxycarbofuran	88.7	97.6	P/P	40 - 150
2330834	Aldicarb	76.5	77.1	P/P	30 - 150
2330834	Aldicarb Sulfone	125	117	P/P	40 - 150
2330834	Aldicarb Sulfoxide	52.7	47.5	P/P	40 - 150
2330834	Carbaryl	73.8	69.3	P/P	40 - 150
2330834	Carbofuran	82.1	77.0	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P414737

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2330834	Methiocarb	77.0	75.1	P/P	40 - 150
2330834	Methomyl	86.4	81.9	P/P	40 - 150
2330834	Oxamyl	99.8	93.3	P/P	40 - 150
2330834	Propoxur	85.3	81.7	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P414771

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331315	Acesulfame K	125	127	P/P	40 - 150
2331315	AMPA	67.0	61.8	P/P	40 - 150
2331315	Endothall	72.4	72.9	P/P	40 - 150
2331315	Glufosinate	92.8	82.8	P/P	40 - 150
2331315	Glyphosate	79.9	97.2	P/P	40 - 150
2331315	Sucralose	108	112	P/P	40 - 150

Reference Method: SM 4500-F- C-2011
Batch ID: P415392

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2333399	Fluoride	99.7	99.7	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P414934

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2331890	Organic Carbon	97.2	95.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P414833

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332278	Color (true)	1.71	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P414843

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332275	Color (true)	3.26	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414847

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332564	Turbidity	3.38	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P414848

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332331	Turbidity	1.74	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P414861

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331683	Calcium	1.57	Spike	P	0 - 20
2331683	Iron	0.700	Spike	P	0 - 20
2331683	Magnesium	0.665	Spike	P	0 - 20
2331683	Potassium	0.304	Spike	P	0 - 20
2331683	Sodium	0.452	Spike	P	0 - 20
2331683	Strontium	1.01	Spike	P	0 - 20
2331683	Tin	2.98	Spike	P	0 - 20
2331683	Titanium	0.0840	Spike	P	0 - 20
2331683	Vanadium	0.0927	Spike	P	0 - 20
2331683	Zinc	1.79	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P414861

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331683	Aluminum	1.14	Spike	P	0 - 20
2331683	Antimony	0.568	Spike	P	0 - 20
2331683	Arsenic	0.666	Spike	P	0 - 20
2331683	Barium	0.640	Spike	P	0 - 20
2331683	Beryllium	4.87	Spike	P	0 - 20
2331683	Boron	0.279	Spike	P	0 - 20
2331683	Cadmium	1.17	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P414861

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331683	Chromium	0.221	Spike	P	0 - 20
2331683	Cobalt	0.163	Spike	P	0 - 20
2331683	Copper	0.609	Spike	P	0 - 20
2331683	Lead	0.755	Spike	P	0 - 20
2331683	Manganese	1.41	Spike	P	0 - 20
2331683	Molybdenum	0.560	Spike	P	0 - 20
2331683	Nickel	0.0352	Spike	P	0 - 20
2331683	Selenium	3.21	Spike	P	0 - 20
2331683	Silver	0.678	Spike	P	0 - 20
2331683	Thallium	1.66	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P415274

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2334062	Lead	0.0892	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P415044

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332651	Chloride	0.00975	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P415047

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332651	Sulfate	0.256	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P415441

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332273	Ammonia-N	0.237	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P414869

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332273	Kjeldahl Nitrogen	13.5	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P414870

Replicated

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P414870

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332282	Kjeldahl Nitrogen	9.15	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415359

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332280	Kjeldahl Nitrogen	5.91	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P415534

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332279	Kjeldahl Nitrogen	5.26	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P415347

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332281	NO2NO3-N	2.24	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P414900

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332283	Total-P	1.89	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P415465

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333840	Total-P	1.98	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P414840

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332284	O-Phosphate-P	0.279	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P414711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331768	Aldrin	10.7	Spike	P	0 - 37
2331768	Alpha-BHC	1.10	Spike	P	0 - 16

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P414711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331768	Alpha-Chlordane	0.262	Spike	P	0 - 28
2331768	Beta-BHC	8.33	Spike	P	0 - 32
2331768	Beta-Cyfluthrin	17.8	Spike	P	0 - 41
2331768	Bifenthrin	6.50	Spike	P	0 - 36
2331768	Chlorothalonil	2.80	Spike	P	0 - 54
2331768	Cis-Nonachlor	10.8	Spike	P	0 - 33
2331768	Cypermethrin	25.1	Spike	P	0 - 38
2331768	Dacthal	8.97	Spike	P	0 - 23
2331768	DDD-p,p'	14.4	Spike	P	0 - 35
2331768	DDE-p,p'	1.97	Spike	P	0 - 27
2331768	DDT-p,p'	5.87	Spike	P	0 - 31
2331768	Delta-BHC	0.446	Spike	P	0 - 30
2331768	Deltamethrin	42.5	Spike	P	0 - 76
2331768	Dichlobenil	8.92	Spike	P	0 - 33
2331768	Dicofol	27.7	Spike	F	0 - 24
2331768	Dieldrin	1.08	Spike	P	0 - 35
2331768	Endosulfan I	1.16	Spike	P	0 - 25
2331768	Endosulfan II	2.12	Spike	P	0 - 31
2331768	Endosulfan Sulfate	26.3	Spike	P	0 - 38
2331768	Endrin	5.08	Spike	P	0 - 53
2331768	Endrin Aldehyde	19.6	Spike	P	0 - 81
2331768	Endrin Ketone	0.725	Spike	P	0 - 33
2331768	Esfenvalerate	17.7	Spike	P	0 - 46
2331768	Ethalfuralin	0.276	Spike	P	0 - 22
2331768	Fenpropathrin	8.10	Spike	P	0 - 29
2331768	Gamma-BHC	8.94	Spike	P	0 - 17
2331768	Gamma-Chlordane	1.55	Spike	P	0 - 28
2331768	Heptachlor	1.22	Spike	P	0 - 28
2331768	Heptachlor Epoxide	6.04	Spike	P	0 - 23
2331768	Hexachlorobenzene	5.64	Spike	P	0 - 22
2331768	Kepone	50.8	Spike	P	0 - 61
2331768	Lambda-Cyhalothrin	23.9	Spike	P	0 - 52
2331768	Methoprene	13.6	Spike	P	0 - 38
2331768	Methoxychlor	4.19	Spike	P	0 - 29
2331768	MGK-264	13.9	Spike	P	0 - 41
2331768	Mirex	16.9	Spike	P	0 - 39
2331768	Oxychlordane	8.26	Spike	P	0 - 33
2331768	Permethrin	24.2	Spike	P	0 - 39
2331768	Phenothrin	22.0	Spike	P	0 - 52
2331768	Piperonyl Butoxide	31.5	Spike	P	0 - 91
2331768	Prallethrin	33.2	Spike	P	0 - 34
2331768	Tau-Fluvalinate	30.8	Spike	P	0 - 41
2331768	Tetramethrin	22.9	Spike	P	0 - 43
2331768	Trans-Nonachlor	7.62	Spike	P	0 - 31
2331768	Triclosan Methyl	18.5	Spike	P	0 - 24
2331768	Trifluralin	11.8	Spike	P	0 - 23

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P415071

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332309	Acetochlor	15.3	Spike	P	0 - 27
2332309	Alachlor	14.1	Spike	P	0 - 27
2332309	Ametryn	0.402	Spike	P	0 - 34
2332309	Atrazine	11.6	Spike	P	0 - 41
2332309	Atrazine Desethyl	16.2	Spike	P	0 - 38
2332309	Azinphos Methyl	17.1	Spike	P	0 - 62
2332309	Azoxystrobin	22.0	Spike	P	0 - 32
2332309	Bromacil	19.6	Spike	P	0 - 30
2332309	Butylate	24.2	Spike	P	0 - 59
2332309	Caffeine	5.89	Spike	P	0 - 60
2332309	Carbophenothion	12.0	Spike	P	0 - 25
2332309	Carfentrazone Ethyl	14.6	Spike	P	0 - 26
2332309	Chlorfenapyr	5.60	Spike	P	0 - 30
2332309	Chlorpyrifos Ethyl	8.59	Spike	P	0 - 27
2332309	Chlorpyrifos Methyl	7.54	Spike	P	0 - 26
2332309	Coumaphos	2.88	Spike	P	0 - 30
2332309	Cyanazine	18.5	Spike	P	0 - 58
2332309	Cyprodinil	8.78	Spike	P	0 - 30
2332309	Demeton	9.01	Spike	P	0 - 25
2332309	Diazinon	12.1	Spike	P	0 - 29
2332309	Difenoconazole	10.4	Spike	P	0 - 25
2332309	Dimethenamid	11.0	Spike	P	0 - 30
2332309	Dimethomorph	5.35	Spike	P	0 - 30
2332309	Disulfoton	5.16	Spike	P	0 - 33
2332309	Dithiopyr	8.00	Spike	P	0 - 22
2332309	EPTC	36.4	Spike	P	0 - 38
2332309	Ethion	0.729	Spike	P	0 - 79
2332309	Ethoprop	12.2	Spike	P	0 - 23
2332309	Etridiazole	19.6	Spike	P	0 - 30
2332309	Fenamiphos	4.45	Spike	P	0 - 58
2332309	Fenbuconazole	16.4	Spike	P	0 - 37
2332309	Fipronil	14.5	Spike	P	0 - 33
2332309	Fipronil Desulfinyl	14.6	Spike	P	0 - 26
2332309	Fipronil Sulfide	6.83	Spike	P	0 - 37
2332309	Fipronil Sulfone	7.56	Spike	P	0 - 50
2332309	Fluazifop-P-butyl	14.5	Spike	P	0 - 24
2332309	Fludioxonil	16.1	Spike	P	0 - 26
2332309	Flumioxazin	12.1	Spike	P	0 - 37
2332309	Flutolanil	13.1	Spike	P	0 - 26
2332309	Fluxapyroxad	13.9	Spike	P	0 - 34
2332309	Fonofos	2.79	Spike	P	0 - 27
2332309	Hexazinone	8.84	Spike	P	0 - 36
2332309	Imazalil	29.9	Spike	P	0 - 65
2332309	Iprodione	9.09	Spike	P	0 - 33
2332309	Loratadine	2.57	Spike	P	0 - 30
2332309	Malathion	9.87	Spike	P	0 - 44
2332309	Metalaxyl	8.98	Spike	P	0 - 38
2332309	Metolachlor	14.5	Spike	P	0 - 36
2332309	Metribuzin	13.9	Spike	P	0 - 63
2332309	Mevinphos	5.01	Spike	P	0 - 26
2332309	Molinate	25.1	Spike	P	0 - 40

Quality Assurance Report

Precision

Reference Method: EPA 8270E

Batch ID: P415071

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332309	Myclobutanil	14.7	Spike	P	0 - 21
2332309	Naled	15.4	Spike	P	0 - 26
2332309	Napropamide	6.86	Spike	P	0 - 30
2332309	Norflurazon	11.7	Spike	P	0 - 24
2332309	Oxadiazon	9.06	Spike	P	0 - 27
2332309	Oxyfluorfen	6.89	Spike	P	0 - 24
2332309	Parathion Ethyl	13.2	Spike	P	0 - 28
2332309	Parathion Methyl	9.78	Spike	P	0 - 27
2332309	Pendimethalin	10.9	Spike	P	0 - 31
2332309	Phenytoin	11.7	Spike	P	0 - 30
2332309	Phorate	13.3	Spike	P	0 - 27
2332309	Prodiamine	13.9	Spike	P	0 - 52
2332309	Prometon	13.9	Spike	P	0 - 31
2332309	Prometryn	3.32	Spike	P	0 - 28
2332309	Pronamide	11.2	Spike	P	0 - 26
2332309	Propanil	11.6	Spike	P	0 - 30
2332309	Propargite	19.1	Spike	P	0 - 30
2332309	Propiconazole	15.9	Spike	P	0 - 31
2332309	Pyraflufen Ethyl	13.8	Spike	P	0 - 30
2332309	Pyridaben	4.71	Spike	P	0 - 30
2332309	Pyriproxyfen	18.5	Spike	P	0 - 50
2332309	Simazine	12.0	Spike	P	0 - 29
2332309	Stirophos	91.7	Spike	F	0 - 30
2332309	Sulfentrazone	14.7	Spike	P	0 - 33
2332309	Tebuconazole	9.03	Spike	P	0 - 44
2332309	Terbufos	12.9	Spike	P	0 - 29
2332309	Terbuthylazine	10.9	Spike	P	0 - 27
2332309	Thiobencarb	14.6	Spike	P	0 - 30
2332309	Triadimefon	1.48	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P414711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331808	Chlordane	3.87	Spike	P	0 - 25
2331808	Toxaphene	2.72	Spike	P	0 - 24

Reference Method: EPA 8321B

Batch ID: P414735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331275	2,4-D	0.530	Spike	P	0 - 30
2331275	2,4,5-T	7.18	Spike	P	0 - 30
2331275	Acetaminophen	0.0692	Spike	P	0 - 30
2331275	Acetamiprid	10.4	Spike	P	0 - 30
2331275	Afidopyropen	3.15	Spike	P	0 - 30
2331275	Benzovindiflupyr	0.688	Spike	P	0 - 30
2331275	Carbamazepine	1.45	Spike	P	0 - 30
2331275	Clothianidin	0.345	Spike	P	0 - 30

Quality Assurance Report

Precision

Reference Method: EPA 8321B

Batch ID: P414735

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331275	Dinotefuran	3.11	Spike	P	0 - 30
2331275	Diuron	6.36	Spike	P	0 - 30
2331275	Fenuron	2.78	Spike	P	0 - 30
2331275	Fluridone	0.0989	Spike	P	0 - 30
2331275	Hydrocodone	0.0943	Spike	P	0 - 30
2331275	Ibuprofen	2.89	Spike	P	0 - 30
2331275	Imazapyr	0.196	Spike	P	0 - 30
2331275	Imidacloprid	5.86	Spike	P	0 - 30
2331275	Linuron	4.22	Spike	P	0 - 30
2331275	Mandestrobin	1.47	Spike	P	0 - 30
2331275	MCPPP	1.14	Spike	P	0 - 30
2331275	Naproxen	17.8	Spike	P	0 - 30
2331275	Primidone	1.40	Spike	P	0 - 30
2331275	Pyraclostrobin	7.59	Spike	P	0 - 30
2331275	Silvex	8.15	Spike	P	0 - 30
2331275	Thiamethoxam	4.75	Spike	P	0 - 30
2331275	Tolfenpyrad	6.32	Spike	P	0 - 30
2331275	Triclopyr	11.9	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P414737

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2330834	3-Hydroxycarbofuran	9.55	Spike	P	0 - 30
2330834	Aldicarb	0.710	Spike	P	0 - 30
2330834	Aldicarb Sulfone	6.60	Spike	P	0 - 30
2330834	Aldicarb Sulfoxide	10.4	Spike	P	0 - 30
2330834	Carbaryl	6.34	Spike	P	0 - 30
2330834	Carbofuran	6.34	Spike	P	0 - 30
2330834	Methiocarb	2.55	Spike	P	0 - 30
2330834	Methomyl	5.42	Spike	P	0 - 30
2330834	Oxamyl	6.75	Spike	P	0 - 30
2330834	Propoxur	4.36	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P414771

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331315	Acesulfame K	1.58	Spike	P	0 - 30
2331315	AMPA	4.94	Spike	P	0 - 30
2331315	Endothall	0.753	Spike	P	0 - 30
2331315	Glufosinate	11.4	Spike	P	0 - 30
2331315	Glyphosate	9.62	Spike	P	0 - 30
2331315	Sucralose	3.90	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P415387

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333399	Total Alkalinity	0.0128	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P415242

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2332335	TDS	5.65	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P415392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2333399	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P414934

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2331890	Organic Carbon	0.828	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2332304
Field Sample ID: G2TLHR0092

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	79.6	P	30 - 160

Lab Sample ID: 2332305
Field Sample ID: G2TLHR0092

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	112	P	30 - 160
EPA 8321B	Acetaminophen-d4	105	P	30 - 160
EPA 8321B	Carbamazepine-d10	108	P	30 - 160
EPA 8321B	Diuron-d6	78.8	P	30 - 160
EPA 8321B	Endothall-d6	94.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	79.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	75.3	P	30 - 160
EPA 8321B	Primidone-d5	99.7	P	30 - 160
EPA 8321B	Sucralose-d6	149	P	30 - 160

Lab Sample ID: 2332306
Field Sample ID: FB_06062022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	90.2	P	30 - 160

Lab Sample ID: 2332307
Field Sample ID: FB_06062022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	99.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	94.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	105	P	30 - 160
EPA 8321B	Diuron-d6	85.6	P	30 - 160
EPA 8321B	Endothall-d6	88.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	84.7	P	30 - 160
EPA 8321B	Primidone-d5	100	P	30 - 160
EPA 8321B	Sucralose-d6	154	P	30 - 160

Lab Sample ID: 2332308
Field Sample ID: G2TLHR0092

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	102	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	38.9	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	73.8	P	30 - 97.0
EPA 8276	PCNB	96.2	P	45 - 119

Lab Sample ID: 2332309
Field Sample ID: G2TLHR0092

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	80.3	P	20 - 200
EPA 8270E	Simazine-d10	92.9	P	71 - 140
EPA 8270E	Terbufos-d10	80.8	P	62 - 131

Quality Assurance Report Surrogates

Lab Sample ID: 2332315
Field Sample ID: FB_06062022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	80.7	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	71.1	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	78.0	P	30 - 97.0
EPA 8276	PCNB	93.1	P	45 - 119

Lab Sample ID: 2332316
Field Sample ID: FB_06062022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	88.9	P	20 - 200
EPA 8270E	Simazine-d10	102	P	71 - 140
EPA 8270E	Terbufos-d10	82.3	P	62 - 131

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A112651

Included Lab Sample IDs: 2332272, 2332274, 2332277, 2332278, 2332289

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	100	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A112652

Included Lab Sample IDs: 2332284, 2332285, 2332286, 2332287, 2332288

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	97.4	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A112653

Included Lab Sample IDs: 2332275, 2332276

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	102	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A112655

Included Lab Sample IDs: 2332272, 2332274, 2332275, 2332276, 2332277, 2332278, 2332289

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

Reference Method: EPA 8321B

Run ID: A112660

Included Lab Sample IDs: 2332305, 2332307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	143	154	P/P	60 - 160
Sucralose	110	115	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A112661

Included Lab Sample IDs: 2332305, 2332307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	88.8	91.9	P/P	60 - 160
Endothall	70.5	67.5	P/P	60 - 160
Glufosinate	102	99.0	P/P	60 - 160
Glyphosate	92.9	95.0	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A112673

Included Lab Sample IDs: 2332305, 2332307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	96.5	98.1	P/P	50 - 150
2,4,5-T	101	97.2	P/P	50 - 150
3-Hydroxycarbofuran	102	103	P/P	60 - 150
Acetaminophen	101	104	P/P	60 - 160
Acetamiprid	102	103	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A112673

Included Lab Sample IDs: 2332305, 2332307

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Afidopyropen	95.2	102	P/P	50 - 150
Aldicarb	97.7	95.7	P/P	60 - 150
Aldicarb Sulfone	99.9	102	P/P	50 - 150
Aldicarb Sulfoxide	101	102	P/P	50 - 150
Bentazon	104	102	P/P	50 - 160
Benzovindiflupyr	110	105	P/P	50 - 150
Carbamazepine	101	100	P/P	60 - 150
Carbaryl	110	105	P/P	60 - 150
Carbofuran	102	107	P/P	50 - 150
Clothianidin	107	113	P/P	60 - 150
Dinotefuran	97.8	101	P/P	50 - 150
Diuron	106	97.6	P/P	60 - 160
Fenuron	102	101	P/P	60 - 150
Fluridone	114	109	P/P	60 - 160
Hydrocodone	99.0	101	P/P	60 - 150
Ibuprofen	113	107	P/P	50 - 160
Imazapyr	96.5	95.4	P/P	50 - 150
Imidacloprid	94.2	94.5	P/P	60 - 150
Linuron	99.7	99.5	P/P	60 - 150
Mandestrobin	112	110	P/P	50 - 150
MCPP	89.3	93.2	P/P	50 - 150
Methiocarb	107	107	P/P	50 - 150
Methomyl	103	104	P/P	50 - 150
Naproxen	138	138	P/P	50 - 160
Oxamyl	101	103	P/P	50 - 150
Primidone	100	100	P/P	60 - 150
Propoxur	108	105	P/P	50 - 150
Pyraclostrobin	112	111	P/P	60 - 150
Silvex	94.6	94.8	P/P	50 - 150
Thiamethoxam	97.4	101	P/P	50 - 150
Tolfenpyrad	102	95.3	P/P	60 - 150
Triclopyr	96.5	94.1	P/P	50 - 150

Reference Method: SM 5310 B-2011

Run ID: A112691

Included Lab Sample IDs: 2332273, 2332279, 2332280, 2332281, 2332282, 2332283, 2332290

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	96.4	P/P	90 - 110
Organic Carbon	97.1	96.4	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A112707

Included Lab Sample IDs: 2332272, 2332289

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A112711

Included Lab Sample IDs: 2332317, 2332318, 2332319, 2332320, 2332321, 2332322, 2332323

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	102	P/P	90 - 110
Aluminum	101	102	P/P	90 - 110
Aluminum	102	101	P/P	90 - 110
Antimony	98.2	99.9	P/P	90 - 110
Antimony	98.7	98.2	P/P	90 - 110
Antimony	99.9	99.7	P/P	90 - 110
Arsenic	95.4	96.6	P/P	90 - 110
Arsenic	98.9	95.4	P/P	90 - 110
Arsenic	99.7	98.9	P/P	90 - 110
Barium	101	99.4	P/P	90 - 110
Barium	99.4	99.4	P/P	90 - 110
Barium	99.4	98.7	P/P	90 - 110
Beryllium	96.0	97.9	P/P	90 - 110
Beryllium	96.3	98.0	P/P	90 - 110
Beryllium	98.0	96.0	P/P	90 - 110
Boron	102	107	P/P	90 - 110
Cadmium	97.9	98.7	P/P	90 - 110
Cadmium	98.7	99.8	P/P	90 - 110
Cadmium	99.8	99.8	P/P	90 - 110
Chromium	97.5	99.0	P/P	90 - 110
Chromium	97.8	99.3	P/P	90 - 110
Chromium	99.0	97.8	P/P	90 - 110
Cobalt	102	96.2	P/P	90 - 110
Cobalt	102	102	P/P	90 - 110
Cobalt	96.2	99.1	P/P	90 - 110
Copper	100	95.4	P/P	90 - 110
Copper	101	100	P/P	90 - 110
Copper	95.4	97.4	P/P	90 - 110
Lead	98.1	98.5	P/P	90 - 110
Lead	99.5	99.8	P/P	90 - 110
Lead	99.8	98.1	P/P	90 - 110
Manganese	97.0	99.3	P/P	90 - 110
Manganese	97.7	100	P/P	90 - 110
Manganese	99.3	97.7	P/P	90 - 110
Molybdenum	97.4	98.5	P/P	90 - 110
Molybdenum	98.2	97.4	P/P	90 - 110
Molybdenum	99.1	98.2	P/P	90 - 110
Nickel	101	95.5	P/P	90 - 110
Nickel	101	101	P/P	90 - 110
Nickel	95.5	97.4	P/P	90 - 110
Selenium	97.1	97.6	P/P	90 - 110
Selenium	97.3	98.5	P/P	90 - 110
Selenium	97.6	97.3	P/P	90 - 110
Silver	104	104	P/P	90 - 110
Silver	104	105	P/P	90 - 110
Silver	105	104	P/P	90 - 110
Thallium	97.7	97.3	P/P	90 - 110
Thallium	98.0	98.2	P/P	90 - 110
Thallium	98.2	97.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A112726

Included Lab Sample IDs: 2332317, 2332318, 2332319, 2332320, 2332321, 2332322, 2332323

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	93.0	94.2	P/P	90 - 110
Calcium	94.2	95.0	P/P	90 - 110
Calcium	95.0	95.3	P/P	90 - 110
Iron	93.8	93.9	P/P	90 - 110
Iron	93.9	95.6	P/P	90 - 110
Iron	95.6	96.4	P/P	90 - 110
Magnesium	93.6	95.2	P/P	90 - 110
Magnesium	93.6	93.6	P/P	90 - 110
Magnesium	95.2	95.8	P/P	90 - 110
Potassium	97.2	97.3	P/P	90 - 110
Potassium	97.3	98.5	P/P	90 - 110
Potassium	98.5	98.3	P/P	90 - 110
Sodium	95.0	96.0	P/P	90 - 110
Sodium	96.0	96.5	P/P	90 - 110
Sodium	96.5	95.8	P/P	90 - 110
Strontium	103	106	P/P	90 - 110
Strontium	106	103	P/P	90 - 110
Strontium	98.3	103	P/P	90 - 110
Tin	105	101	P/P	90 - 110
Tin	95.9	99.4	P/P	90 - 110
Tin	99.4	105	P/P	90 - 110
Titanium	100	105	P/P	90 - 110
Titanium	105	101	P/P	90 - 110
Titanium	95.4	100	P/P	90 - 110
Vanadium	101	105	P/P	90 - 110
Vanadium	105	103	P/P	90 - 110
Vanadium	96.9	101	P/P	90 - 110
Zinc	101	104	P/P	90 - 110
Zinc	104	101	P/P	90 - 110
Zinc	95.7	101	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112735

Included Lab Sample IDs: 2332308, 2332315

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.4		P	80 - 120
Alpha-BHC	98.5		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	93.6		P	80 - 120
Beta-Cyfluthrin	107		P	80 - 120
Bifenthrin	107		P	80 - 120
Chlorothalonil	89.3		P	80 - 120
Cis-Nonachlor	96.0		P	80 - 120
Cypermethrin	106		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	102		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	95.4		P	80 - 120
Deltamethrin	86.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112735

Included Lab Sample IDs: 2332308, 2332315

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dichlobenil	89.0		P	80 - 120
Dicofol	153*		F	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	98.6		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	105		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	100		P	80 - 120
Endrin Ketone	98.7		P	80 - 120
Esfenvalerate	105		P	80 - 120
Ethalfuralin	99.3		P	80 - 120
Fenpropathrin	110		P	80 - 120
Gamma-BHC	99.0		P	80 - 120
Gamma-Chlordane	103		P	80 - 120
Heptachlor	99.1		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120
Hexachlorobenzene	91.2		P	80 - 120
Kepone	91.4		P	80 - 120
Lambda-Cyhalothrin	105		P	80 - 120
Methoprene	101		P	80 - 120
Methoxychlor	102		P	80 - 120
MGK-264	100		P	80 - 120
Mirex	104		P	80 - 120
Oxychlordane	102		P	80 - 120
Permethrin	105		P	80 - 120
Phenothrin	104		P	80 - 120
Piperonyl Butoxide	86.1		P	80 - 120
Prallethrin	101		P	80 - 120
Tau-Fluvalinate	105		P	80 - 120
Tetramethrin	99.3		P	80 - 120
Trans-Nonachlor	104		P	80 - 120
Triclosan Methyl	99.1		P	80 - 120
Trifluralin	98.5		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A112743

Included Lab Sample IDs: 2332317, 2332318, 2332319, 2332320, 2332321, 2332322

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	92.2	97.4	P/P	90 - 110
Boron	93.7	92.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112793

Included Lab Sample IDs: 2332280, 2332281, 2332282, 2332283

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112798

Included Lab Sample IDs: 2332273, 2332281, 2332282, 2332283, 2332290

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	99.2	P/P	90 - 110
Kjeldahl Nitrogen	103	101	P/P	90 - 110
Kjeldahl Nitrogen	107	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A112804

Included Lab Sample IDs: 2332273, 2332279

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

Reference Method: EPA 8276

Run ID: A112840

Included Lab Sample IDs: 2332308, 2332315

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.5		P	80 - 120
Toxaphene	100		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A112880

Included Lab Sample IDs: 2332319

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	97.7	96.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A112894

Included Lab Sample IDs: 2332273, 2332279, 2332280, 2332281, 2332282, 2332283, 2332290

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	104	103	P/P	90 - 110
NO2NO3-N	104	104	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A112906

Included Lab Sample IDs: 2332272, 2332274, 2332275, 2332276, 2332277, 2332278, 2332289

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	100	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A112906

Included Lab Sample IDs: 2332272, 2332274, 2332275, 2332276, 2332277, 2332278, 2332289

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112909

Included Lab Sample IDs: 2332309, 2332316

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Azoxystrobin	96.9		P	80 - 120
Carbophenothion	107		P	80 - 120
Chlorfenapyr	108		P	80 - 120
Coumaphos	116		P	80 - 120
Fluxapyroxad	98.6		P	80 - 120
Iprodione	103		P	80 - 120
Malathion	101		P	80 - 120
Naled	104		P	80 - 120
Phorate	100		P	80 - 120
Prometon	96.0		P	80 - 120
Pyridaben	106		P	80 - 120
Stirophos	108		P	80 - 120
Sulfentrazone	109		P	80 - 120
Tebuconazole	98.2		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A112932

Included Lab Sample IDs: 2332273, 2332279, 2332280, 2332281, 2332282, 2332283, 2332290

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.7	98.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A112959

Included Lab Sample IDs: 2332309, 2332316

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	103		P	80 - 120
Alachlor	96.0		P	80 - 120
Ametryn	91.9		P	80 - 120
Atrazine	99.4		P	80 - 120
Atrazine Desethyl	92.1		P	80 - 120
Azinphos Methyl	97.8		P	80 - 120
Azoxystrobin	95.5		P	80 - 120
Bromacil	98.6		P	80 - 120
Butylate	111		P	80 - 120
Caffeine	98.6		P	80 - 120
Carfentrazone Ethyl	102		P	80 - 120
Chlorpyrifos Ethyl	109		P	80 - 120
Chlorpyrifos Methyl	106		P	80 - 120
Cyanazine	89.9		P	80 - 120
Cyprodinil	89.2		P	80 - 120
Demeton	109		P	80 - 120
Diazinon	93.9		P	80 - 120
Difenoconazole	94.9		P	80 - 120
Dimethenamid	105		P	80 - 120
Dimethomorph	99.0		P	80 - 120
Disulfoton	106		P	80 - 120
Dithiopyr	99.8		P	80 - 120
EPTC	103		P	80 - 120
Ethion	105		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A112959

Included Lab Sample IDs: 2332309, 2332316

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethoprop	97.5		P	80 - 120
Etridiazole	93.7		P	80 - 120
Fenamiphos	115		P	80 - 120
Fenbuconazole	97.3		P	80 - 120
Fipronil	103		P	80 - 120
Fipronil Desulfinyl	100		P	80 - 120
Fipronil Sulfide	119		P	80 - 120
Fipronil Sulfone	119		P	80 - 120
Fluazifop-P-butyl	100		P	80 - 120
Fludioxonil	98.2		P	80 - 120
Flumioxazin	88.5		P	80 - 120
Flutolanil	96.3		P	80 - 120
Fluxapyroxad	99.4		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	102		P	80 - 120
Imazalil	98.5		P	80 - 120
Iprodione	96.7		P	80 - 120
Loratadine	98.7		P	80 - 120
Metalaxyl	103		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	98.6		P	80 - 120
Mevinphos	93.5		P	80 - 120
Molinate	97.9		P	80 - 120
Myclobutanil	105		P	80 - 120
Napropamide	100		P	80 - 120
Norflurazon	99.5		P	80 - 120
Oxadiazon	105		P	80 - 120
Oxyfluorfen	101		P	80 - 120
Parathion Ethyl	96.9		P	80 - 120
Parathion Methyl	96.1		P	80 - 120
Pendimethalin	98.3		P	80 - 120
Phenytoin	106		P	80 - 120
Phorate	103		P	80 - 120
Prodiamine	106		P	80 - 120
Prometon	97.9		P	80 - 120
Prometryn	92.0		P	80 - 120
Pronamide	99.0		P	80 - 120
Propanil	101		P	80 - 120
Propargite	102		P	80 - 120
Propiconazole	98.6		P	80 - 120
Pyraflufen Ethyl	105		P	80 - 120
Pyriproxyfen	100		P	80 - 120
Simazine	99.9		P	80 - 120
Sulfentrazone	102		P	80 - 120
Tebuconazole	98.0		P	80 - 120
Terbufos	102		P	80 - 120
Terbuthylazine	102		P	80 - 120
Thiobencarb	98.9		P	80 - 120
Triadimefon	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A112989

Included Lab Sample IDs: 2332280

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113015

Included Lab Sample IDs: 2332290

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A113073

Included Lab Sample IDs: 2332279

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.6	104	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision	
						LCS	MS
DEP SOP: NU-094-1	Color (true)	101				1.71	
	Color (true)	101				3.26	
EPA 180.1 Rev. 2.0	Turbidity	96.4				3.38	
	Turbidity	96.7				1.74	
EPA 200.7 Rev. 4.4	Calcium	96.8	95.6	96.4			1.57
	Iron	96.1	95.1	94.4	97.8		0.700
	Magnesium	96.7	94.6	93.8	96.5		0.665
	Potassium	97.4	96.5	96.2	98.6		0.304
	Sodium	97.5	96.3	95.7	97.5		0.452
	Strontium	102	101	100	103		1.01
	Tin	101	99.3	96.4	102		2.98
	Titanium	101	100	99.9	103		0.0840
	Vanadium	94.5	92.8	92.8	96.7		0.0927
	Zinc	99.4	96.4	94.7	102		1.79
EPA 200.8 Rev. 5.4	Aluminum	102	103	105	102		1.14
	Antimony	99.5	102	102	101		0.568
	Arsenic	98.9	98.0	97.4	98.3		0.666
	Barium	103	104	104	104		0.640
	Beryllium	94.8	99.8	95.0	97.9		4.87
	Boron	103	102	101	92.0		0.279
	Cadmium	100	99.8	101	101		1.17
	Chromium	97.4	99.8	100	99.3		0.221
	Cobalt	100	99.4	99.2	98.9		0.163
	Copper	97.3	95.3	95.9	95.9		0.609
	Lead	100	102	102	101		0.755
	Lead	98.3	97.6	98.8	98.7		0.0892
	Manganese	98.0	99.3				1.41
	Molybdenum	98.7	102	101	101		0.560
	Nickel	97.9	96.9	96.9	97.1		0.0352
	Selenium	97.3	96.4	93.4	97.1		3.21
	Silver	105	105	105	104		0.678
	Thallium	101	103	105	102		1.66
EPA 300.0 Rev. 2.1	Chloride	100	95.1	98.8		0.0097	
	Sulfate	100	96.0	98.3		0.256	
EPA 350.1 Rev. 2.0	Ammonia-N	101	104	103			0.237
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	114	94.8			13.5
	Kjeldahl Nitrogen	107	112	100			9.15
	Kjeldahl Nitrogen	107	109	101			5.91
	Kjeldahl Nitrogen	103	99.6	92.9			5.26
EPA 353.2 Rev. 2.0	NO2NO3-N	104	101				2.24
EPA 365.1 Rev. 2.0	Total-P	106	111	108			1.89
	Total-P	107	107	105			1.98
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.9	96.6	96.9			0.279
EPA 8270E	Acetochlor	111	88.5	106			15.3
	Alachlor	100	83.7	96.4			14.1
	Aldrin	49.6	50.9	56.6			10.7
	Alpha-BHC	91.1	103	102			1.10
	Alpha-Chlordane	52.9	74.4	74.6			0.262
	Ametryn	118	108	108			0.402
	Atrazine	98.4					11.6
	Atrazine Desethyl	69.9	50.1	61.9			16.2
	Azinphos Methyl	170	143	170			17.1
	Azoxystrobin	96.9	70.1	109			22.0
	Beta-BHC	85.4	78.1	71.9			8.33

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Beta-Cyfluthrin	70.6	45.1	37.7			17.8
	Bifenthrin	52.6	35.9	33.6			6.50
	Bromacil	95.7	79.3	96.5			19.6
	Butylate	41.7	42.4	54.1			24.2
	Caffeine	74.0	88.8	83.6			5.89
	Carbophenothion	95.9	88.4	99.7			12.0
	Carfentrazone Ethyl	129	108	125			14.6
	Chlorfenapyr	81.8	81.0	85.7			5.60
	Chlorothalonil	104	84.8	82.5			2.80
	Chlorpyrifos Ethyl	82.6	75.6	82.4			8.59
	Chlorpyrifos Methyl	82.3	80.2	86.5			7.54
	Cis-Nonachlor	57.1	49.9	44.8			10.8
	Coumaphos	114	110	113			2.88
	Cyanazine	159	94.0	113			18.5
	Cypermethrin	73.5	46.9	36.4			25.1
	Cyprodinil	111	93.4	103			8.78
	Dacthal	79.1	79.2	72.4			8.97
	DDD-p,p'	58.1	42.4	36.7			14.4
	DDE-p,p'	65.6	54.9	56.0			1.97
	DDT-p,p'	65.0	68.2	72.3			5.87
	Delta-BHC	98.5	139	139			0.446
	Deltamethrin	65.7	39.8	25.9			42.5
	Demeton	64.4	77.4	84.7			9.01
	Diazinon	107	88.5	99.9			12.1
	Dichlobenil	73.2	34.7	31.8			8.92
	Dicofol	189	188	142			27.7
	Dieldrin	57.8	65.2	65.9			1.08
	Difenoconazole	197	174	196			10.4
	Dimethenamid	93.4	82.1	91.6			11.0
	Dimethomorph	77.1	78.6	82.9			5.35
	Disulfoton	75.9	80.4	84.6			5.16
	Dithiopyr	104	87.6	94.9			8.00
	Endosulfan I	70.6	67.6	68.4			1.16
	Endosulfan II	76.9	93.7	95.7			2.12
	Endosulfan Sulfate	80.7	72.7	55.8			26.3
	Endrin	69.2	60.7	57.7			5.08
	Endrin Aldehyde	68.7	83.7	68.8			19.6
	Endrin Ketone	84.7	95.2	95.9			0.725
	EPTC	44.1	36.2	52.3			36.4
	Esfenvalerate	73.4	52.1	43.6			17.7
	Ethalfuralin	71.1	75.4	75.2			0.276
	Ethion	73.7	75.8	76.3			0.729
	Ethoprop	71.1	71.9	81.3			12.2
	Etridiazole	67.5	52.2	63.5			19.6
	Fenamiphos	87.9	95.0	99.3			4.45
	Fenbuconazole	146	126	148			16.4
	Fenpropathrin	65.9	56.6	61.4			8.10
	Fipronil	108	91.9	106			14.5
	Fipronil Desulfinyl	105	85.5	99.0			14.6
	Fipronil Sulfide	78.5	78.1	83.6			6.83
	Fipronil Sulfone	86.1	85.6	92.3			7.56
	Fluazifop-P-butyl	103	84.7	98.0			14.5
	Fludioxonil	112	88.9	111			16.1
	Flumioxazin	222	202	228			12.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Flutolanil	97.3	82.6	95.3			13.1
	Fluxapyroxad	84.3	62.7	84.0			13.9
	Fonofos	72.2	73.6	75.7			2.79
	Gamma-BHC	95.1	82.2	89.9			8.94
	Gamma-Chlordane	54.9	68.8	69.9			1.55
	Heptachlor	61.6	78.0	77.1			1.22
	Heptachlor Epoxide	59.1	71.4	67.3			6.04
	Hexachlorobenzene	58.0	65.2	61.6			5.64
	Hexazinone	98.0	89.4	98.2			8.84
	Imazalil	94.2	79.1	107			29.9
	Iprodione	107	103	113			9.09
	Kepone	86.6	176	105			50.8
	Lambda-Cyhalothrin	63.1	38.3	30.1			23.9
	Loratadine	69.4	73.1	75.0			2.57
	Malathion	101	97.3	107			9.87
	Metalaxyl	96.0	79.8	88.0			8.98
	Methoprene	59.9	57.6	66.1			13.6
	Methoxychlor	75.2	76.7	80.0			4.19
	Metolachlor	106					14.5
	Metribuzin	91.5	105	120			13.9
	Mevinphos	58.6	65.6	69.0			5.01
	MGK-264	73.7	71.2	62.0			13.9
	Mirex	55.2	43.6	51.7			16.9
	Molinate	55.9	51.1	65.8			25.1
	Myclobutanil	110	95.1	110			14.7
	Naled	105	92.5	108			15.4
	Napropamide	86.0	76.9	82.4			6.86
	Norflurazon	117	102	115			11.7
	Oxadiazon	90.7	78.0	85.4			9.06
	Oxychlordane	66.6	67.3	73.2			8.26
	Oxyfluorfen	129	114	122			6.89
	Parathion Ethyl	89.9	81.7	93.3			13.2
	Parathion Methyl	106	103	113			9.78
	Pendimethalin	81.7	90.4	101			10.9
	Permethrin	68.1	44.6	35.0			24.2
	Phenothrin	53.2	26.8	21.5			22.0
	Phenytol	112	95.3	107			11.7
	Phorate	50.8	72.7	83.1			13.3
	Piperonyl Butoxide	87.4	67.1	48.8			31.5
	Prallethrin	64.7	57.2	40.9			33.2
	Prodiamine	98.4	91.9	106			13.9
	Prometon	107	71.8	82.6			13.9
	Prometryn	102	93.3	96.5			3.32
	Pronamide	112	99.3	111			11.2
	Propanil	88.5	76.2	85.6			11.6
	Propargite	145	117	142			19.1
	Propiconazole	110	86.7	107			15.9
	Pyraflufen Ethyl	117	98.5	113			13.8
	Pyridaben	99.3	93.4	97.9			4.71
	Pyriproxyfen	142	120	145			18.5
	Simazine	98.6	93.6	106			12.0
	Stirophos	16.8	81.4	30.2			91.7
	Sulfentrazone	139	94.4	109			14.7
	Tau-Fluvalinate	66.7	38.2	28.0			30.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Tebuconazole	58.1	56.9	63.2		9.03
	Terbufos	80.0	80.9	92.1		12.9
	Terbutylazine	89.8	82.4	91.9		10.9
	Tetramethrin	82.1	52.6	41.8		22.9
	Thiobencarb	96.6	79.7	92.3		14.6
	Trans-Nonachlor	60.3	54.4	50.4		7.62
	Triadimefon	87.4	70.7	69.6		1.48
	Triclosan Methyl	67.7	61.5	51.1		18.5
	Trifluralin	68.1	68.3	60.7		11.8
EPA 8276	Chlordane	91.3	91.5	88.0		3.87
	Toxaphene	113	120	123		2.72
EPA 8321B	2,4-D	99.5				0.530
	2,4,5-T	90.7	97.2	104		7.18
	3-Hydroxycarbofuran	82.1	88.7	97.6		9.55
	Acesulfame K	140	125	127		1.58
	Acetaminophen	85.8	110	110		0.0692
	Acetamiprid	82.0	83.9	75.6		10.4
	Afidopyropen	44.1	46.4	47.8		3.15
	Aldicarb	69.1	76.5	77.1		0.710
	Aldicarb Sulfone	103	125	117		6.60
	Aldicarb Sulfoxide	101	52.7	47.5		10.4
	AMPA	88.9	67.0	61.8		4.94
	Bentazon	90.9				
	Benzovindiflupyr	90.9	87.4	88.0		0.688
	Carbamazepine	97.5	110	108		1.45
	Carbaryl	84.4	73.8	69.3		6.34
	Carbofuran	96.4	82.1	77.0		6.34
	Clothianidin	93.8	119	118		0.345
	Dinotefuran	93.0	135	130		3.11
	Diuron	79.0	79.1	84.5		6.36
	Endothall	75.1	72.4	72.9		0.753
	Fenuron	90.4	83.8	81.5		2.78
	Fluridone	82.8	83.7	83.5		0.0989
	Glufosinate	101	92.8	82.8		11.4
	Glyphosate	90.7	79.9	97.2		9.62
	Hydrocodone	88.6	100	100		0.0943
	Ibuprofen	83.6	86.9	84.4		2.89
	Imazapyr	91.8				0.196
	Imidacloprid	87.1	147	137		5.86
	Linuron	71.9	72.7	69.7		4.22
	Mandestrobin	79.7	82.5	83.7		1.47
	MCPP	105	121	123		1.14
	Methiocarb	76.6	77.0	75.1		2.55
	Methomyl	87.9	86.4	81.9		5.42
	Naproxen	87.0	76.2	91.1		17.8
	Oxamyl	102	99.8	93.3		6.75
	Primidone	95.1	118	117		1.40
	Propoxur	91.9	85.3	81.7		4.36
	Pyraclostrobin	87.4	77.5	83.6		7.59
	Silvex	83.3	91.8	99.6		8.15
	Sucralose	113	108	112		3.90
	Thiamethoxam	89.1	140	134		4.75
	Tolfenpyrad	53.2	53.6	57.0		6.32
	Triclopyr	89.8	100	113		11.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	Precision		
				LCS	SMP	MS
SM 2320 B-2011	Total Alkalinity	103			0.0128	
SM 2540 C-2011	TDS				5.65	
SM 4500-F- C-2011	Fluoride	100	99.7 99.7			0.0
SM 5310 B-2011	Organic Carbon	92.6	97.2 95.8			0.828

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2332272, 2332274, 2332275, 2332276, 2332277, 2332278, 2332289
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2332272, 2332274, 2332275, 2332276, 2332277, 2332278, 2332289
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2332317, 2332318, 2332319, 2332320, 2332321, 2332322, 2332323
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2332317, 2332318, 2332319, 2332320, 2332321, 2332322, 2332323
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2332272, 2332289
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2332272, 2332274, 2332275, 2332276, 2332277, 2332278, 2332289
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2332273, 2332279, 2332280, 2332281, 2332282, 2332283, 2332290
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2332273, 2332279, 2332280, 2332281, 2332282, 2332283, 2332290
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2332273, 2332279, 2332280, 2332281, 2332282, 2332283, 2332290
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2332273, 2332279, 2332280, 2332281, 2332282, 2332283, 2332290
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2332284, 2332285, 2332286, 2332287, 2332288
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2332308, 2332315
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2332309, 2332316
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2332308, 2332315
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2332304, 2332306
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2332305, 2332307
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2332272, 2332274, 2332275, 2332276, 2332277, 2332278, 2332289
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2332317, 2332318, 2332319, 2332320, 2332321, 2332322, 2332323
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2332272, 2332274, 2332275, 2332276, 2332277, 2332278, 2332289
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2332272, 2332274, 2332275, 2332276, 2332277, 2332278, 2332289
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2332272, 2332274, 2332275, 2332276, 2332277, 2332278, 2332289
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2332273, 2332279, 2332280, 2332281, 2332282, 2332283, 2332290

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	06/06/2022			06/07/2022 14:17	Samantha L Bates	2332272
	06/06/2022			06/07/2022 14:18	Samantha L Bates	2332274
	06/06/2022			06/07/2022 14:20	Samantha L Bates	2332277
	06/06/2022			06/07/2022 14:21	Samantha L Bates	2332278
	06/06/2022			06/07/2022 14:22	Samantha L Bates	2332289
	06/06/2022			06/07/2022 15:52	Samantha L Bates	2332275
	06/06/2022			06/07/2022 15:53	Samantha L Bates	2332276
EPA 180.1 Rev. 2.0	06/06/2022			06/07/2022 14:54	Khloe J Berg	2332272
	06/06/2022			06/07/2022 14:56	Khloe J Berg	2332274
	06/06/2022			06/07/2022 14:57	Khloe J Berg	2332275
	06/06/2022			06/07/2022 15:00	Khloe J Berg	2332277
	06/06/2022			06/07/2022 15:01	Khloe J Berg	2332278
	06/06/2022			06/07/2022 15:12	Khloe J Berg	2332289
	06/06/2022			06/07/2022 15:51	Khloe J Berg	2332276
EPA 200.7 Rev. 4.4	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/09/2022 20:06	McKinley C Carter	2332323
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/09/2022 22:18	McKinley C Carter	2332317
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/09/2022 22:54	McKinley C Carter	2332318
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/09/2022 23:02	McKinley C Carter	2332319
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/09/2022 23:10	McKinley C Carter	2332320
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/09/2022 23:16	McKinley C Carter	2332321
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/09/2022 23:21	McKinley C Carter	2332322
EPA 200.8 Rev. 5.4	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/09/2022 12:39	Alexander Thompson	2332323
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/09/2022 15:33	Alexander Thompson	2332317
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/09/2022 16:40	Alexander Thompson	2332318
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/09/2022 16:50	Alexander Thompson	2332319
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/09/2022 16:59	Alexander Thompson	2332320
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/09/2022 17:09	Alexander Thompson	2332321
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/09/2022 17:19	Alexander Thompson	2332322
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/10/2022 11:00	Alexander Thompson	2332317
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/10/2022 11:47	Alexander Thompson	2332318
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/10/2022 11:52	Alexander Thompson	2332319
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/10/2022 11:58	Alexander Thompson	2332320
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/10/2022 12:04	Alexander Thompson	2332321
	06/06/2022	06/08/2022 09:50	Megan Whitefoot	06/10/2022 12:10	Alexander Thompson	2332322
	06/06/2022	06/16/2022 09:36	Megan Whitefoot	06/16/2022 16:26	Alexander Thompson	2332319
EPA 300.0 Rev. 2.1	06/06/2022			06/10/2022 04:24	Anna M. Plaviak	2332272
	06/06/2022			06/10/2022 04:36	Anna M. Plaviak	2332274
	06/06/2022			06/10/2022 04:48	Anna M. Plaviak	2332275
	06/06/2022			06/10/2022 05:00	Anna M. Plaviak	2332276
	06/06/2022			06/10/2022 05:12	Anna M. Plaviak	2332277

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 300.0 Rev. 2.1	06/06/2022			06/10/2022 05:24	Anna M. Plaviak	2332278
	06/06/2022			06/10/2022 05:36	Anna M. Plaviak	2332289
EPA 350.1 Rev. 2.0	06/06/2022			06/20/2022 14:40	Ping Hua	2332273
	06/06/2022			06/20/2022 14:46	Ping Hua	2332279
	06/06/2022			06/20/2022 14:48	Ping Hua	2332280
	06/06/2022			06/20/2022 14:49	Ping Hua	2332281
	06/06/2022			06/20/2022 14:50	Ping Hua	2332282
	06/06/2022			06/20/2022 14:52	Ping Hua	2332283
	06/06/2022			06/20/2022 14:54	Ping Hua	2332290
	06/06/2022			06/20/2022 14:54	Ping Hua	2332290
EPA 351.2 Rev. 2.0	06/06/2022	06/09/2022 16:19	Samantha L Bates	06/13/2022 15:45	Alexandra J Mattheus	2332273
	06/06/2022	06/09/2022 16:19	Samantha L Bates	06/13/2022 15:55	Alexandra J Mattheus	2332282
	06/06/2022	06/09/2022 16:19	Samantha L Bates	06/13/2022 16:32	Alexandra J Mattheus	2332281
	06/06/2022	06/09/2022 16:19	Samantha L Bates	06/13/2022 16:34	Alexandra J Mattheus	2332290
	06/06/2022	06/09/2022 16:19	Samantha L Bates	06/13/2022 16:42	Alexandra J Mattheus	2332283
	06/06/2022	06/20/2022 16:20	Samantha L Bates	06/22/2022 13:10	Alexandra J Mattheus	2332280
	06/06/2022	06/23/2022 16:39	Samantha L Bates	06/24/2022 14:45	Alexandra J Mattheus	2332279
EPA 353.2 Rev. 2.0	06/06/2022			06/15/2022 18:53	Touraj Touran	2332281
	06/06/2022			06/15/2022 19:02	Touraj Touran	2332280
	06/06/2022			06/15/2022 19:03	Touraj Touran	2332282
	06/06/2022			06/15/2022 19:04	Touraj Touran	2332283
	06/06/2022			06/15/2022 19:06	Touraj Touran	2332290
	06/06/2022			06/15/2022 19:37	Touraj Touran	2332273
	06/06/2022			06/15/2022 19:39	Touraj Touran	2332279
EPA 365.1 Rev. 2.0	06/06/2022	06/09/2022 15:30	Simonne.V. Calhoun	06/10/2022 10:48	James L Waggeberby	2332283
	06/06/2022	06/09/2022 15:30	Simonne.V. Calhoun	06/10/2022 10:57	James L Waggeberby	2332280
	06/06/2022	06/09/2022 15:30	Simonne.V. Calhoun	06/10/2022 10:58	James L Waggeberby	2332281
	06/06/2022	06/09/2022 15:30	Simonne.V. Calhoun	06/10/2022 10:59	James L Waggeberby	2332282
	06/06/2022	06/09/2022 15:30	Simonne.V. Calhoun	06/10/2022 15:00	James L Waggeberby	2332273
	06/06/2022	06/09/2022 15:30	Simonne.V. Calhoun	06/10/2022 15:01	James L Waggeberby	2332279
	06/06/2022	06/22/2022 17:36	Adam P Silver	06/23/2022 13:26	James L Waggeberby	2332290
EPA 365.1 Rev. 2.0 dissolved	06/06/2022			06/07/2022 15:31	Nathaniel J Jones	2332284
	06/06/2022			06/07/2022 15:34	Nathaniel J Jones	2332285
	06/06/2022			06/07/2022 15:35	Nathaniel J Jones	2332286, 2332287
	06/06/2022			06/07/2022 15:36	Nathaniel J Jones	2332288
EPA 8270E	06/06/2022	06/07/2022 08:00	Fe-Val Siddell	06/09/2022 23:22	Michael Poppell	2332308
	06/06/2022	06/07/2022 08:00	Fe-Val Siddell	06/09/2022 23:51	Michael Poppell	2332315
	06/06/2022	06/13/2022 08:00	Rasheda Ghaffari	06/16/2022 17:59	Michael Poppell	2332309
	06/06/2022	06/13/2022 08:00	Rasheda Ghaffari	06/16/2022 18:26	Michael Poppell	2332316
	06/06/2022	06/13/2022 08:00	Rasheda Ghaffari	06/18/2022 16:29	Michael Poppell	2332309
	06/06/2022	06/13/2022 08:00	Rasheda Ghaffari	06/18/2022 16:55	Michael Poppell	2332316

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8276	06/06/2022	06/07/2022 08:00	Fe-Val Siddell	06/12/2022 17:22	Julie Wi	2332308
	06/06/2022	06/07/2022 08:00	Fe-Val Siddell	06/12/2022 18:17	Julie Wi	2332315
EPA 8321B	06/06/2022	06/06/2022 15:00	Hoor Shaik	06/07/2022 13:07	Juyoung Kim	2332305
	06/06/2022	06/06/2022 15:00	Hoor Shaik	06/07/2022 13:42	Juyoung Kim	2332307
	06/06/2022	06/06/2022 15:00	June Rhew	06/07/2022 11:57	Juyoung Kim	2332304
	06/06/2022	06/06/2022 15:00	June Rhew	06/07/2022 12:32	Juyoung Kim	2332306
	06/06/2022	06/07/2022 10:00	Umesh Chiluwal	06/07/2022 15:55	Umesh Chiluwal	2332305
	06/06/2022	06/07/2022 10:00	Umesh Chiluwal	06/07/2022 16:10	Umesh Chiluwal	2332307
	06/06/2022	06/07/2022 10:00	Umesh Chiluwal	06/07/2022 23:52	Umesh Chiluwal	2332305
	06/06/2022	06/07/2022 10:00	Umesh Chiluwal	06/08/2022 00:05	Umesh Chiluwal	2332307
SM 2320 B-2011	06/06/2022			06/16/2022 15:58	Dale L. Simmons	2332272
	06/06/2022			06/16/2022 16:12	Dale L. Simmons	2332274
	06/06/2022			06/16/2022 16:24	Dale L. Simmons	2332275
	06/06/2022			06/16/2022 16:36	Dale L. Simmons	2332276
	06/06/2022			06/16/2022 16:46	Dale L. Simmons	2332277
	06/06/2022			06/16/2022 16:56	Dale L. Simmons	2332278
SM 2340 B-2011	06/06/2022			06/16/2022 17:04	Dale L. Simmons	2332289
	06/06/2022			06/09/2022 20:06	McKinley C Carter	2332323
	06/06/2022			06/09/2022 22:18	McKinley C Carter	2332317
	06/06/2022			06/09/2022 22:54	McKinley C Carter	2332318
	06/06/2022			06/09/2022 23:02	McKinley C Carter	2332319
	06/06/2022			06/09/2022 23:10	McKinley C Carter	2332320
	06/06/2022			06/09/2022 23:16	McKinley C Carter	2332321
SM 2540 C-2011	06/06/2022			06/09/2022 23:21	McKinley C Carter	2332322
	06/06/2022			06/10/2022 14:26	Yijie Li	2332272, 2332274, 2332275, 2332276, 2332277, 2332278, 2332289
SM 2540 D-2011	06/06/2022			06/10/2022 14:26	Yijie Li	2332272, 2332274, 2332275, 2332276, 2332277, 2332278, 2332289
SM 4500-F- C-2011	06/06/2022			06/16/2022 15:58	Dale L. Simmons	2332272
	06/06/2022			06/16/2022 16:12	Dale L. Simmons	2332274
	06/06/2022			06/16/2022 16:24	Dale L. Simmons	2332275
	06/06/2022			06/16/2022 16:36	Dale L. Simmons	2332276
	06/06/2022			06/16/2022 16:46	Dale L. Simmons	2332277
	06/06/2022			06/16/2022 16:56	Dale L. Simmons	2332278
	06/06/2022			06/16/2022 17:04	Dale L. Simmons	2332289
SM 5310 B-2011	06/06/2022			06/08/2022 18:38	Khloe J Berg	2332273
	06/06/2022			06/08/2022 18:53	Khloe J Berg	2332279
	06/06/2022			06/08/2022 19:40	Khloe J Berg	2332280
	06/06/2022			06/08/2022 20:00	Khloe J Berg	2332281
	06/06/2022			06/08/2022 20:15	Khloe J Berg	2332282

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 5310 B-2011	06/06/2022			06/08/2022 20:29	Khloe J Berg	2332283
	06/06/2022			06/08/2022 20:43	Khloe J Berg	2332290