

Chemical Analysis Report

NE-DIST-2022-08-23-01

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

Event Description: **LSJR North 2022**
Request ID: **RQ-2022-08-22-22**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Suite 100
Jacksonville, FL 32256
Attn: Jeremy Parrish

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Liang Lin, Environmental Administrator

Date Certified: 13-SEP-2022 15:17

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored 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: Blockhouse at Broward Rd.

Collection Date/Time: 08/22/2022 09:40

Field ID: G2NE1180

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2351308	EPA 8270E	Aldrin	0.70	U	ng/L	P418553	
		Alpha-BHC	0.11	U	ng/L	P418553	
		Alpha-Chlordane	0.22	U	ng/L	P418553	
		PCB-1016	2.2	U	ng/L	P418553	
		Beta-BHC	0.11	U	ng/L	P418553	
		PCB-1221	2.2	U	ng/L	P418553	
		Beta-Cyfluthrin	1.4	U	ng/L	P418553	
		PCB-1232	2.2	U	ng/L	P418553	
		Bifenthrin	0.54	U	ng/L	P418553	
		PCB-1242	2.2	U	ng/L	P418553	
		Carbophenothion	0.97	U	ng/L	P418553	
		PCB-1248	2.2	U	ng/L	P418553	
		Chlorothalonil	1.4	U	ng/L	P418553	
		PCB-1254	2.2	U	ng/L	P418553	
		Cis-Nonachlor	0.22	U	ng/L	P418553	
		PCB-1260	2.2	U	ng/L	P418553	
		Cypermethrin	1.6	U	ng/L	P418553	
		Dacthal	0.16	U	ng/L	P418553	
		DDD-p,p'	0.27	U	ng/L	P418553	
		DDE-p,p'	0.22	U	ng/L	P418553	
		DDT-p,p'	0.27	U	ng/L	P418553	
		Delta-BHC	0.43	U	ng/L	P418553	
		Deltamethrin	1.4	U	ng/L	P418553	
		Dichlobenil	0.27	U	ng/L	P418553	
		Dicofol	1.4	U	ng/L	P418553	
		Dieldrin	0.43	U	ng/L	P418553	
		Endosulfan I	0.43	U	ng/L	P418553	
		Endosulfan II	0.43	U	ng/L	P418553	
		Endosulfan Sulfate	0.32	U	ng/L	P418553	
		Endrin	0.43	U	ng/L	P418553	
		Endrin Aldehyde	0.81	U	ng/L	P418553	
		Endrin Ketone	0.43	U	ng/L	P418553	
		Esfenvalerate	0.81	U	ng/L	P418553	
		Ethalfuralin	0.16	U	ng/L	P418553	
		Fenpropathrin	0.27	U	ng/L	P418553	
		Gamma-BHC	0.14	U	ng/L	P418553	
		Gamma-Chlordane	0.22	U	ng/L	P418553	
		Heptachlor	0.22	U	ng/L	P418553	
		Heptachlor Epoxide	0.27	U	ng/L	P418553	
		Hexachlorobenzene**	1.1	U	ng/L	P418553	
		Kepone	5.4	U	ng/L	P418553	
		Lambda-Cyhalothrin	0.81	U	ng/L	P418553	
		Methoprene	0.81	U	ng/L	P418553	
		Methoxychlor	0.32	U	ng/L	P418553	

Field ID: G2NE1180

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2351308	EPA 8270E	MGK-264	0.22	U	ng/L	P418553	
		Mirex	0.38	U	ng/L	P418553	
		Oxychlordane	0.32	U	ng/L	P418553	
		Permethrin	1.7	U	ng/L	P418553	
		Phenothrin	0.97	U	ng/L	P418553	
		Piperonyl Butoxide	0.16	U	ng/L	P418553	
		Prallethrin	2.2	U	ng/L	P418553	
		Tau-Fluvalinate	0.27	U	ng/L	P418553	
		Tetramethrin	0.81	U	ng/L	P418553	
		Trans-Nonachlor	0.22	U	ng/L	P418553	
		Triclosan Methyl	0.16	U	ng/L	P418553	
		Trifluralin	0.22	U	ng/L	P418553	
	EPA 8276	Chlordane	2.7	U	ng/L	P418553	
		Toxaphene	16	UJ	ng/L	P418553	LCS
2351315	EPA 200.7 Rev. 4.4	Calcium	143		mg/L	P418557	
		Iron	380		ug/L	P418557	
		Magnesium	366		mg/L	P418557	
		Strontium	2.50E+03		ug/L	P418557	
		Tin	9.0	U	ug/L	P418557	
		Titanium	5.9	I	ug/L	P418557	
		Vanadium	6.0	U	ug/L	P418557	
	EPA 200.8 Rev. 5.4	Zinc	15	U	ug/L	P418557	
		Aluminum	310		ug/L	P418557	
		Antimony	0.20	U	ug/L	P418557	
		Arsenic	2.21		ug/L	P418557	
		Beryllium	0.074	I	ug/L	P418557	
		Cadmium	0.080	U	ug/L	P418557	
		Chromium	4.0	U	ug/L	P418557	
		Cobalt	0.23	I	ug/L	P418557	
		Copper	3.0	I	ug/L	P418557	
		Lead	1.2	I	ug/L	P418557	
		Manganese	32.2		ug/L	P418557	
		Molybdenum	4.4		ug/L	P418557	
		Nickel	2.0	U	ug/L	P418557	
		Selenium	0.80	U	ug/L	P418557	
		Silver	0.040	U	ug/L	P418557	
		Thallium	0.40	U	ug/L	P418557	

Ref. Method and Comment:

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

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium and strontium are unavailable because of high analyte concentration in the QC sample.

Sample Location: Tributary to Trout at Bessent Rd

Collection Date/Time: 08/22/2022 10:00

Field ID: G2NE1207

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2351292	EPA 180.1 Rev. 2.0	Turbidity	9.4		NTU	P418572	
	SM 2320 B-2011	Total Alkalinity	81		mg CaCO3/L	P419054	
	SM 2540 D-2011	TSS	10	I	mg/L	P419041	
	SM 4500-F- C-2011	Fluoride	0.18		mg F/L	P418789	
2351293	EPA 350.1 Rev. 2.0	Ammonia-N	0.14		mg N/L	P418691	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.79		mg N/L	P418776	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.094		mg N/L	P418752	
	EPA 365.1 Rev. 2.0	Total-P	0.21		mg P/L	P418673	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P418825	
2351311	EPA 8321B	Acesulfame K	0.13	I	ug/L	P418299	
		2,4-D	0.013		ug/L	P418568	
		AMPA	1.0	U	ug/L	P418299	
		2,4,5-T	0.0040	U	ug/L	P418568	
		Acetaminophen	0.0080	U	ug/L	P418568	
		Endothall	0.25	U	ug/L	P418299	
		Acetamiprid	0.0020	U	ug/L	P418568	
		Glufosinate	1.0	U	ug/L	P418299	
		Glyphosate	1.0	U	ug/L	P418299	
		Afidopyropen	0.0020	U	ug/L	P418568	
		Sucralose	0.31		ug/L	P418299	
		Bentazon	0.017		ug/L	P418568	
		Benzovindiflupyr	0.0020	U	ug/L	P418568	
		Carbamazepine	0.0015	I	ug/L	P418568	
		Clothianidin	0.011		ug/L	P418568	
		Dinotefuran	0.0020	U	ug/L	P418568	
		Diuron	0.012		ug/L	P418568	
		Fenuron	0.032	U	ug/L	P418568	
		Fluridone	0.012		ug/L	P418568	
		Imazapyr	0.26		ug/L	P418568	
		Hydrocodone	0.0020	U	ug/L	P418568	
		Ibuprofen	0.080	U	ug/L	P418568	
		Imidacloprid	0.015		ug/L	P418568	
		Linuron	0.0040	U	ug/L	P418568	
		Mandestrobin	0.0020	U	ug/L	P418568	
		MCP	0.0040	U	ug/L	P418568	
		Naproxen	0.0080	U	ug/L	P418568	
		Primidone	0.0040	U	ug/L	P418568	
		Pyraclostrobin	0.0020	U	ug/L	P418568	
		Silvex	0.0040	U	ug/L	P418568	
		Thiamethoxam	0.0020	U	ug/L	P418568	
		Tolfenpyrad	0.0020	U	ug/L	P418568	
		Triclopyr	0.0040	U	ug/L	P418568	

Field ID: G2NE1207

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: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: Some MDLs are elevated due to required dilution of sample matrix.

Sample Location: Blockhouse CR @ Leonid Rd

Collection Date/Time: 08/22/2022 10:20

Field ID: 20030027FLA

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2351309	EPA 8270E	Aldrin	0.80	U	ng/L	P418553	
		Alpha-BHC	0.12	U	ng/L	P418553	
		Alpha-Chlordane	0.25	U	ng/L	P418553	
		PCB-1016	2.5	U	ng/L	P418553	
		Beta-BHC	0.12	U	ng/L	P418553	
		PCB-1221	2.5	U	ng/L	P418553	
		Beta-Cyfluthrin	1.5	U	ng/L	P418553	
		PCB-1232	2.5	U	ng/L	P418553	
		Bifenthrin	0.61	U	ng/L	P418553	
		PCB-1242	2.5	U	ng/L	P418553	
		Carbophenothion	1.1	U	ng/L	P418553	
		PCB-1248	2.5	U	ng/L	P418553	
		Chlorothalonil	1.5	U	ng/L	P418553	
		PCB-1254	2.5	U	ng/L	P418553	
		Cis-Nonachlor	0.25	U	ng/L	P418553	
		PCB-1260	2.5	U	ng/L	P418553	
		Cypermethrin	1.8	U	ng/L	P418553	
		Dacthal	0.18	U	ng/L	P418553	
		DDD-p,p'	0.31	U	ng/L	P418553	
		DDE-p,p'	0.25	U	ng/L	P418553	
		DDT-p,p'	0.31	U	ng/L	P418553	
		Delta-BHC	0.49	U	ng/L	P418553	
		Deltamethrin	1.5	U	ng/L	P418553	
		Dichlobenil	0.31	U	ng/L	P418553	
		Dicofol	1.5	U	ng/L	P418553	
		Dieldrin	0.49	U	ng/L	P418553	
		Endosulfan I	0.49	U	ng/L	P418553	
		Endosulfan II	0.49	U	ng/L	P418553	
		Endosulfan Sulfate	0.37	U	ng/L	P418553	
		Endrin	0.49	U	ng/L	P418553	
		Endrin Aldehyde	0.92	U	ng/L	P418553	
		Endrin Ketone	0.49	U	ng/L	P418553	
		Esfenvalerate	0.92	U	ng/L	P418553	
		Ethalfuralin	0.18	U	ng/L	P418553	
		Fenpropathrin	0.31	U	ng/L	P418553	
		Gamma-BHC	0.15	U	ng/L	P418553	
		Gamma-Chlordane	0.25	U	ng/L	P418553	
		Heptachlor	0.25	U	ng/L	P418553	
		Heptachlor Epoxide	0.31	U	ng/L	P418553	
		Hexachlorobenzene**	1.2	U	ng/L	P418553	
		Kepone	6.1	U	ng/L	P418553	
		Lambda-Cyhalothrin	0.92	U	ng/L	P418553	
		Methoprene	0.92	U	ng/L	P418553	
		Methoxychlor	0.37	U	ng/L	P418553	

Field ID: 20030027FLA

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2351309	EPA 8270E	MGK-264	0.25	U	ng/L	P418553	
		Mirex	0.43	U	ng/L	P418553	
		Oxychlordane	0.37	U	ng/L	P418553	
		Permethrin	2.0	U	ng/L	P418553	
		Phenothrin	1.1	U	ng/L	P418553	
		Piperonyl Butoxide	0.20	I	ng/L	P418553	
		Prallethrin	2.5	U	ng/L	P418553	
		Tau-Fluvalinate	0.31	U	ng/L	P418553	
		Tetramethrin	0.92	U	ng/L	P418553	
		Trans-Nonachlor	0.25	U	ng/L	P418553	
		Triclosan Methyl	0.18	U	ng/L	P418553	
		Trifluralin	0.25	U	ng/L	P418553	
	EPA 8276	Chlordane	3.1	U	ng/L	P418553	
		Toxaphene	18	UJ	ng/L	P418553	LCS
2351316	EPA 200.7 Rev. 4.4	Calcium	29.4		mg/L	P418720	
		Iron	1.34E+03		ug/L	P418720	
		Magnesium	29.2		mg/L	P418720	
		Strontium	272		ug/L	P418720	
		Tin	3.0	U	ug/L	P418720	
		Titanium	2.2	I	ug/L	P418720	
		Vanadium	2.0	U	ug/L	P418720	
		Zinc	10	I	ug/L	P418720	
	EPA 200.8 Rev. 5.4	Aluminum	242		ug/L	P418720	
		Antimony	0.099	I	ug/L	P418720	
		Arsenic	1.45		ug/L	P418720	
		Beryllium	0.051		ug/L	P418720	
		Cadmium	0.020	U	ug/L	P418720	
		Chromium	0.59	I	ug/L	P418720	
		Cobalt	0.228		ug/L	P418720	
		Copper	1.74		ug/L	P418720	
		Lead	1.52		ug/L	P418720	
		Manganese	28.4		ug/L	P418720	
		Molybdenum	0.61		ug/L	P418720	
		Nickel	0.65	I	ug/L	P418720	
		Selenium	0.20	U	ug/L	P418720	
		Silver	0.010	U	ug/L	P418720	
		Thallium	0.10	U	ug/L	P418720	

Ref. Method and Comment:

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

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

Sample Location: Tributary to Trout at Capper Rd.

Collection Date/Time: 08/22/2022 11:10

Field ID: G2NE1208

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2351294	DEP SOP: NU-094-1	Color (true)	110		PCU	P418559	
	EPA 180.1 Rev. 2.0	Turbidity	5.7		NTU	P418572	
	EPA 300.0 Rev. 2.1	Chloride	23		mg Cl/L	P418970	
		Sulfate	8.7		mg SO4/L	P418973	
	SM 2320 B-2011	Total Alkalinity	73		mg CaCO3/L	P418786	
	SM 2540 C-2011	TDS	180		mg/L	P418978	
	SM 2540 D-2011	TSS	2	IA	mg/L	P419041	
	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P418789	
2351295	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P418691	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P418649	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P418753	
	EPA 365.1 Rev. 2.0	Total-P	0.20		mg P/L	P418673	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P418825	

Ref. Method and Comment:

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

Sample Location: WEST BR AT CAPPER

Collection Date/Time: 08/22/2022 11:25

Field ID: 20030748

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2351313	EPA 8321B	2,4-D	0.044		ug/L	P418568	
		Acesulfame K	0.10	U	ug/L	P418299	
		2,4,5-T	0.0040	U	ug/L	P418568	
		AMPA	0.15	I	ug/L	P418299	
		Acetaminophen	0.0080	U	ug/L	P418568	
		Acetamiprid	0.0020	U	ug/L	P418568	
		Endothall	0.25	U	ug/L	P418299	
		Glufosinate	0.10	U	ug/L	P418299	
		Glyphosate	0.44		ug/L	P418299	
		Afidopyropen	0.0020	U	ug/L	P418568	
		Bentazon	0.046		ug/L	P418568	
		Sucralose	0.17		ug/L	P418299	
		Benzovindiflupyr	0.0020	U	ug/L	P418568	
		Carbamazepine	8.0E-04	U	ug/L	P418568	
		Clothianidin	0.035		ug/L	P418568	
		Dinotefuran	0.0020	U	ug/L	P418568	
		Diuron	0.010		ug/L	P418568	
		Fenuron	0.032	U	ug/L	P418568	
		Fluridone	0.10		ug/L	P418568	
		Imazapyr	0.030		ug/L	P418568	
		Hydrocodone	0.0020	U	ug/L	P418568	
		Ibuprofen	0.080	U	ug/L	P418568	
		Imidacloprid	0.011		ug/L	P418568	
		Linuron	0.0040	U	ug/L	P418568	
		Mandestrobin	0.0020	U	ug/L	P418568	
		MCPP	0.0040	U	ug/L	P418568	
		Naproxen	0.0080	U	ug/L	P418568	
		Primidone	0.0040	U	ug/L	P418568	
		Pyraclostrobin	0.0020	U	ug/L	P418568	
		Silvex	0.0040	U	ug/L	P418568	
		Thiamethoxam	0.0020	U	ug/L	P418568	
		Tolfenpyrad	0.0020	U	ug/L	P418568	
		Triclopyr	0.0040	U	ug/L	P418568	

Sample Location: Unnamed Creek at Van Gundy Rd.

Collection Date/Time: 08/22/2022 11:50

Field ID: G2NE1192

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2351314	EPA 8321B	2,4-D	1.6		ug/L	P418568	
		Acesulfame K	0.38	I	ug/L	P418299	
		2,4,5-T	0.0040	U	ug/L	P418568	
		AMPA	0.30	I	ug/L	P418299	
		Acetaminophen	0.0080	U	ug/L	P418568	
		Acetamiprid	0.0020	U	ug/L	P418568	
		Endothall	0.25	U	ug/L	P418299	
		Glufosinate	0.10	U	ug/L	P418299	
		Glyphosate	0.71		ug/L	P418299	
		Afidopyropen	0.0020	U	ug/L	P418568	
		Bentazon	0.015		ug/L	P418568	
		Sucralose	0.43		ug/L	P418299	
		Benzovindiflupyr	0.0020	U	ug/L	P418568	
		Carbamazepine	0.0012	I	ug/L	P418568	
		Clothianidin	0.0063	I	ug/L	P418568	
		Dinotefuran	0.0038	I	ug/L	P418568	
		Diuron	0.027		ug/L	P418568	
		Fenuron	0.032	U	ug/L	P418568	
		Fluridone	0.0029	I	ug/L	P418568	
		Imazapyr	0.064		ug/L	P418568	
		Hydrocodone	0.0020	U	ug/L	P418568	
		Ibuprofen	0.080	U	ug/L	P418568	
		Imidacloprid	0.0039	I	ug/L	P418568	
		Linuron	0.0040	U	ug/L	P418568	
		Mandestrobin	0.0020	U	ug/L	P418568	
		MCPP	0.0057	I	ug/L	P418568	
		Naproxen	0.0080	U	ug/L	P418568	
		Primidone	0.0040	U	ug/L	P418568	
		Pyraclostrobin	0.0020	U	ug/L	P418568	
		Silvex	0.0040	U	ug/L	P418568	
		Thiamethoxam	0.0020	U	ug/L	P418568	
		Tolfenpyrad	0.0020	U	ug/L	P418568	
		Triclopyr	0.0040	U	ug/L	P418568	

Sample Location: BLOCKHOUSE CR @ DUVAL RD

Collection Date/Time: 08/22/2022 10:50

Field ID: 20030746

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2351310	EPA 8270E	Aldrin	0.68	U	ng/L	P418553	
		Alpha-BHC	0.10	U	ng/L	P418553	
		Alpha-Chlordane	0.21	U	ng/L	P418553	
		PCB-1016	2.1	U	ng/L	P418553	
		Beta-BHC	0.10	U	ng/L	P418553	
		PCB-1221	2.1	U	ng/L	P418553	
		Beta-Cyfluthrin	1.3	U	ng/L	P418553	
		PCB-1232	2.1	U	ng/L	P418553	
		Bifenthrin	0.52	U	ng/L	P418553	
		PCB-1242	2.1	U	ng/L	P418553	
		Carbophenothion	0.94	U	ng/L	P418553	
		PCB-1248	2.1	U	ng/L	P418553	
		Chlorothalonil	1.3	U	ng/L	P418553	
		PCB-1254	2.1	U	ng/L	P418553	
		Cis-Nonachlor	0.21	U	ng/L	P418553	
		PCB-1260	2.1	U	ng/L	P418553	
		Cypermethrin	1.6	U	ng/L	P418553	
		Dacthal	0.16	U	ng/L	P418553	
		DDD-p,p'	0.26	U	ng/L	P418553	
		DDE-p,p'	0.21	U	ng/L	P418553	
		DDT-p,p'	0.26	U	ng/L	P418553	
		Delta-BHC	0.42	U	ng/L	P418553	
		Deltamethrin	1.3	U	ng/L	P418553	
		Dichlobenil	0.26	U	ng/L	P418553	
		Dicofol	1.3	U	ng/L	P418553	
		Dieldrin	0.42	U	ng/L	P418553	
		Endosulfan I	0.42	U	ng/L	P418553	
		Endosulfan II	0.42	U	ng/L	P418553	
		Endosulfan Sulfate	0.31	U	ng/L	P418553	
		Endrin	0.42	U	ng/L	P418553	
		Endrin Aldehyde	0.78	U	ng/L	P418553	
		Endrin Ketone	0.42	U	ng/L	P418553	
		Esfenvalerate	0.78	U	ng/L	P418553	
		Ethalfuralin	0.16	U	ng/L	P418553	
		Fenpropathrin	0.26	U	ng/L	P418553	
		Gamma-BHC	0.13	U	ng/L	P418553	
		Gamma-Chlordane	0.21	U	ng/L	P418553	
		Heptachlor	0.21	U	ng/L	P418553	
		Heptachlor Epoxide	0.26	U	ng/L	P418553	
		Hexachlorobenzene**	1.0	U	ng/L	P418553	
		Kepone	5.2	U	ng/L	P418553	
		Lambda-Cyhalothrin	0.78	U	ng/L	P418553	
		Methoprene	0.78	U	ng/L	P418553	
		Methoxychlor	0.31	U	ng/L	P418553	

Field ID: 20030746

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2351310	EPA 8270E	MGK-264	0.21	U	ng/L	P418553	
		Mirex	0.37	U	ng/L	P418553	
		Oxychlordane	0.31	U	ng/L	P418553	
		Permethrin	1.7	U	ng/L	P418553	
		Phenothrin	0.94	U	ng/L	P418553	
		Piperonyl Butoxide	0.18	I	ng/L	P418553	
		Prallethrin	2.1	U	ng/L	P418553	
		Tau-Fluvalinate	0.26	U	ng/L	P418553	
		Tetramethrin	0.78	U	ng/L	P418553	
		Trans-Nonachlor	0.21	U	ng/L	P418553	
		Triclosan Methyl	0.16	U	ng/L	P418553	
		Trifluralin	0.21	U	ng/L	P418553	
		Chlordane	2.6	U	ng/L	P418553	
		Toxaphene	16	UJ	ng/L	P418553	LCS
2351312	EPA 8321B	2,4-D	0.029		ug/L	P418568	
		Acesulfame K	0.10	U	ug/L	P418299	
		2,4,5-T	0.0040	U	ug/L	P418568	
		AMPA	0.17	I	ug/L	P418299	
		Acetaminophen	0.0080	U	ug/L	P418568	
		Acetamiprid	0.0020	U	ug/L	P418568	
		Endothall	0.25	U	ug/L	P418299	
		Glufosinate	0.10	U	ug/L	P418299	
		Glyphosate	0.40	I	ug/L	P418299	
		Afidopyropen	0.0020	U	ug/L	P418568	
		Bentazon	0.11		ug/L	P418568	
		Sucralose	0.16		ug/L	P418299	
		Benzovindiflupyr	0.0020	U	ug/L	P418568	
		Carbamazepine	8.0E-04	U	ug/L	P418568	
		Clothianidin	0.044		ug/L	P418568	
		Dinotefuran	0.0020	U	ug/L	P418568	
		Diuron	0.0044	I	ug/L	P418568	
		Fenuron	0.032	U	ug/L	P418568	
		Fluridone	0.0047		ug/L	P418568	
		Imazapyr	0.072		ug/L	P418568	
		Hydrocodone	0.0020	U	ug/L	P418568	
		Ibuprofen	0.080	U	ug/L	P418568	
		Imidacloprid	0.017		ug/L	P418568	
		Linuron	0.0040	U	ug/L	P418568	
		Mandestrobin	0.0020	U	ug/L	P418568	
		MCP	0.012	I	ug/L	P418568	
		Naproxen	0.0080	U	ug/L	P418568	
		Primidone	0.0040	U	ug/L	P418568	
		Pyraclostrobin	0.0020	U	ug/L	P418568	
		Silvex	0.0040	U	ug/L	P418568	
		Thiamethoxam	0.0020	U	ug/L	P418568	

Field ID: 20030746

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2351312	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P418568	
		Triclopyr	0.0040	U	ug/L	P418568	
2351317	EPA 200.7 Rev. 4.4	Calcium	20.8		mg/L	P418720	
		Iron	1.10E+03		ug/L	P418720	
		Magnesium	5.17		mg/L	P418720	
		Potassium	1.9		mg/L	P418720	
		Sodium	9.9		mg/L	P418720	
		Strontium	106		ug/L	P418720	
		Tin	3.0	U	ug/L	P418720	
		Titanium	0.84	I	ug/L	P418720	
		Vanadium	2.0	U	ug/L	P418720	
		Zinc	5.0	U	ug/L	P418720	
	EPA 200.8 Rev. 5.4	Aluminum	119		ug/L	P418720	
		Antimony	0.084	I	ug/L	P418720	
		Arsenic	0.83		ug/L	P418720	
		Barium	19.5		ug/L	P418720	
		Beryllium	0.028	I	ug/L	P418720	
		Boron	21.1		ug/L	P418720	
		Cadmium	0.020	U	ug/L	P418720	
		Chromium	0.41	I	ug/L	P418720	
		Cobalt	0.088		ug/L	P418720	
		Copper	1.09		ug/L	P418720	
		Lead	0.20	U	ug/L	P418720	
		Manganese	13.8		ug/L	P418720	
		Molybdenum	0.31	I	ug/L	P418720	
		Nickel	0.50	U	ug/L	P418720	
		Selenium	0.28	I	ug/L	P418720	
		Silver	0.010	U	ug/L	P418720	
		Thallium	0.10	U	ug/L	P418720	
	SM 2340 B-2011	Hardness	73.2		mg/L	P418720	

Ref. Method and Comment:

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

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium 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: P418559

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418572

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418557

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	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 200.7 Rev. 4.4
Batch ID: P418720

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: P418557

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418557

Component	Result	Code	Units
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: P418720

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418970

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418973

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418691

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418649

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418776

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418752

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418753

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418673

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

Reference Method: EPA 8270E
Batch ID: P418553

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418553

Component	Result	Code	Units
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418553

Component	Result	Code	Units
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P418553

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: P418299

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P418568

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.080	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	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: SM 2320 B-2011

Batch ID: P418786

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

Reference Method: SM 2320 B-2011

Batch ID: P419054

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

Reference Method: SM 2540 C-2011

Batch ID: P418978

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P419041

Component	Result	Code	Units
TSS	2	U	mg/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P418789

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P418825

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: P418559

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418572

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.3		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418557

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	100		P	80 - 120
Iron	101		P	80 - 120
Magnesium	98.9		P	80 - 120
Strontium	100		P	80 - 120
Tin	100		P	80 - 120
Titanium	100		P	80 - 120
Vanadium	100		P	80 - 120
Zinc	101		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418720

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	101		P	85 - 115
Iron	108		P	85 - 115
Magnesium	107		P	85 - 115
Potassium	100		P	85 - 115
Sodium	108		P	85 - 115
Strontium	105		P	85 - 115
Tin	106		P	85 - 115
Titanium	103		P	85 - 115
Vanadium	103		P	85 - 115
Zinc	104		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418557

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	99.2		P	85 - 115
Antimony	95.3		P	85 - 115
Arsenic	100		P	85 - 115
Beryllium	94.7		P	85 - 115
Cadmium	94.6		P	85 - 115
Chromium	96.3		P	85 - 115
Cobalt	94.8		P	85 - 115
Copper	98.0		P	85 - 115
Lead	92.4		P	85 - 115
Manganese	96.8		P	85 - 115
Molybdenum	96.9		P	85 - 115
Nickel	97.9		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418557

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Selenium	98.2		P	85 - 115
Silver	94.1		P	85 - 115
Thallium	98.6		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418720

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	100		P	85 - 115
Arsenic	101		P	85 - 115
Barium	102		P	85 - 115
Beryllium	94.6		P	85 - 115
Boron	100		P	85 - 115
Cadmium	96.1		P	85 - 115
Chromium	98.1		P	85 - 115
Cobalt	97.0		P	85 - 115
Copper	99.0		P	85 - 115
Lead	93.2		P	85 - 115
Manganese	98.5		P	85 - 115
Molybdenum	97.4		P	85 - 115
Nickel	99.6		P	85 - 115
Selenium	99.4		P	85 - 115
Silver	98.1		P	85 - 115
Thallium	98.6		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418970

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P418973

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418691

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418649

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P418776

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P418752

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P418753

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	94.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P418673

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

Reference Method: EPA 8270E

Batch ID: P418553

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	45.6		P	10 - 92.0
Alpha-BHC	89.2		P	75 - 107
Alpha-Chlordane	69.5		P	50 - 108
Beta-BHC	104		P	36 - 138
Beta-Cyfluthrin	67.6		P	20 - 161
Bifenthrin	52.9		P	10 - 119
Carbophenothion	59.8		P	19 - 94.0
Chlorothalonil	80.2		P	26 - 186
Cis-Nonachlor	66.5		P	42 - 119
Cypermethrin	67.4		P	22 - 150
Dacthal	85.8		P	72 - 119
DDD-p,p'	65.1		P	45 - 107
DDE-p,p'	62.7		P	48 - 106
DDT-p,p'	66.5		P	48 - 110
Delta-BHC	107		P	54 - 140
Deltamethrin	69.7		P	22 - 189
Dichlobenil	97.6		P	36 - 117
Dicofol	74.6		P	46 - 155
Dieldrin	66.6		P	54 - 110
Endosulfan I	72.5		P	59 - 105
Endosulfan II	73.9		P	51 - 118
Endosulfan Sulfate	78.8		P	57 - 121
Endrin	75.6		P	10 - 120
Endrin Aldehyde	73.0		P	34 - 118
Endrin Ketone	102		P	69 - 177
Esfenvalerate	67.2		P	23 - 168
Ethalfuralin	59.6		P	49 - 99.0
Fenpropathrin	81.5		P	34 - 117

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P418553

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Gamma-BHC	91.6		P	72 - 117
Gamma-Chlordane	66.6		P	43 - 106
Heptachlor	65.0		P	41 - 98.0
Heptachlor Epoxide	81.0		P	57 - 106
Hexachlorobenzene	75.1		P	36 - 99.0
Kepone	64.9		P	16 - 215
Lambda-Cyhalothrin	57.7		P	21 - 177
Methoprene	62.1		P	10 - 119
Methoxychlor	80.9		P	60 - 112
MGK-264	76.2		P	26 - 122
Mirex	48.0		P	10 - 169
Oxychlordane	71.8		P	43 - 105
PCB-1016	94.8		P	48 - 112
PCB-1260	90.2		P	44 - 118
Permethrin	62.0		P	24 - 148
Phenothrin	59.7		P	10 - 106
Piperonyl Butoxide	92.2		P	10 - 139
Prallethrin	82.5		P	17 - 109
Tau-Fluvalinate	62.0		P	13 - 131
Tetramethrin	89.9		P	10 - 132
Trans-Nonachlor	64.3		P	44 - 106
Triclosan Methyl	70.1		P	59 - 109
Trifluralin	63.7		P	44 - 101

Reference Method: EPA 8276

Batch ID: P418553

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	110		P	61 - 116
Toxaphene	125		F	48 - 124

Reference Method: EPA 8321B

Batch ID: P418299

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	99.5		P	40 - 150
AMPA	112		P	40 - 150
Endothall	120		P	40 - 150
Glufosinate	125		P	40 - 150
Glyphosate	103		P	40 - 150
Sucralose	113		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P418568

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	63.3		P	40 - 150
2,4,5-T	60.3		P	40 - 150
Acetaminophen	75.8		P	30 - 150
Acetamiprid	76.4		P	40 - 150
Afidopyropen	64.6		P	30 - 150
Bentazon	98.0		P	30 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P418568

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Benzovindiflupyr	95.6		P	40 - 150
Carbamazepine	89.5		P	40 - 150
Clothianidin	74.5		P	40 - 150
Dinotefuran	82.1		P	40 - 150
Diuron	91.7		P	40 - 150
Fenuron	90.4		P	40 - 150
Fluridone	90.0		P	40 - 150
Hydrocodone	81.0		P	40 - 150
Ibuprofen	92.3		P	40 - 150
Imazapyr	71.9		P	40 - 150
Imidacloprid	76.5		P	40 - 150
Linuron	89.4		P	40 - 150
Mandestrobin	84.3		P	40 - 150
MCPP	82.6		P	40 - 150
Naproxen	127		P	40 - 150
Primidone	83.5		P	40 - 150
Pyraclostrobin	75.6		P	40 - 150
Silvex	62.9		P	40 - 150
Thiamethoxam	78.0		P	40 - 150
Tolfenpyrad	44.7		P	30 - 150
Triclopyr	57.1		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P418786

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	94 - 106

Reference Method: SM 2320 B-2011

Batch ID: P419054

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	94 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P418789

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

Reference Method: SM 5310 B-2011

Batch ID: P418825

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P418557

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351315	Iron	90.0	103	P/P	80 - 120
2351315	Tin	84.2	102	P/P	80 - 120
2351315	Titanium	90.7	99.3	P/P	80 - 120
2351315	Vanadium	95.0	104	P/P	80 - 120
2351315	Zinc	88.4	97.8	P/P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P418720

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352235	Calcium	99.0		P	80 - 120
2352235	Iron	106	103	P/P	80 - 120
2352235	Magnesium	104	99.9	P/P	80 - 120
2352235	Potassium	101		P	80 - 120
2352235	Sodium	105	102	P/P	80 - 120
2352235	Strontium	105	102	P/P	80 - 120
2352235	Tin	104	101	P/P	80 - 120
2352235	Titanium	102	100	P/P	80 - 120
2352235	Vanadium	102	100	P/P	80 - 120
2352235	Zinc	102	100	P/P	80 - 120
2352236	Iron	104		P	80 - 120
2352236	Magnesium	104		P	80 - 120
2352236	Potassium	104		P	80 - 120
2352236	Strontium	104		P	80 - 120
2352236	Tin	103		P	80 - 120
2352236	Titanium	103		P	80 - 120
2352236	Vanadium	104		P	80 - 120
2352236	Zinc	102		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418557

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351315	Aluminum	117	116	P/P	70 - 130
2351315	Antimony	94.3	98.1	P/P	70 - 130
2351315	Arsenic	113	119	P/P	70 - 130
2351315	Beryllium	99.1	103	P/P	70 - 130
2351315	Cadmium	95.1	95.7	P/P	70 - 130
2351315	Chromium	92.8	96.0	P/P	70 - 130
2351315	Cobalt	102	104	P/P	70 - 130
2351315	Copper	103	106	P/P	70 - 130
2351315	Lead	101	103	P/P	70 - 130
2351315	Manganese	92.1	95.0	P/P	70 - 130
2351315	Molybdenum	114	116	P/P	70 - 130
2351315	Nickel	109	111	P/P	70 - 130
2351315	Selenium	102	103	P/P	70 - 130
2351315	Silver	89.8	92.2	P/P	70 - 130
2351315	Thallium	108	111	P/P	70 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418720

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352235	Aluminum	98.7	98.4	P/P	80 - 120
2352235	Antimony	104	103	P/P	80 - 120
2352235	Arsenic	103	101	P/P	80 - 120
2352235	Barium	103	102	P/P	80 - 120
2352235	Beryllium	93.4	89.3	P/P	80 - 120
2352235	Boron	97.4	95.1	P/P	80 - 120
2352235	Cadmium	101	101	P/P	80 - 120
2352235	Chromium	101	101	P/P	80 - 120
2352235	Cobalt	97.8	96.2	P/P	80 - 120
2352235	Copper	98.3	96.4	P/P	80 - 120
2352235	Lead	93.5	93.7	P/P	80 - 120
2352235	Manganese	101	102	P/P	80 - 120
2352235	Molybdenum	102	101	P/P	80 - 120
2352235	Nickel	101	99.1	P/P	80 - 120
2352235	Selenium	100	99.9	P/P	80 - 120
2352235	Silver	98.2	98.6	P/P	80 - 120
2352235	Thallium	100	101	P/P	80 - 120
2352236	Aluminum	97.9		P	80 - 120
2352236	Antimony	104		P	80 - 120
2352236	Arsenic	99.9		P	80 - 120
2352236	Barium	104		P	80 - 120
2352236	Beryllium	91.3		P	80 - 120
2352236	Boron	96.0		P	80 - 120
2352236	Cadmium	98.6		P	80 - 120
2352236	Chromium	102		P	80 - 120
2352236	Cobalt	93.2		P	80 - 120
2352236	Copper	93.9		P	80 - 120
2352236	Lead	94.0		P	80 - 120
2352236	Manganese	102		P	80 - 120
2352236	Molybdenum	100		P	80 - 120
2352236	Nickel	96.2		P	80 - 120
2352236	Selenium	97.6		P	80 - 120
2352236	Silver	97.7		P	80 - 120
2352236	Thallium	100		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P418970

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351371	Chloride	96.3		P	90 - 110
2351423	Chloride	97.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P418973

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351371	Sulfate	96.0		P	90 - 110
2351423	Sulfate	98.5		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418691

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351374	Ammonia-N	96.8	97.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418649

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351525	Kjeldahl Nitrogen	91.2	95.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418752

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351255	NO2NO3-N	98.8	98.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351370	NO2NO3-N	94.1	94.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418673

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351254	Total-P	105	102	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P418553

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352083	Aldrin	43.6	52.7	P/P	20 - 82.0
2352083	Alpha-BHC	77.5	91.7	P/P	71 - 109
2352083	Alpha-Chlordane	60.9	78.4	P/P	42 - 106
2352083	Beta-BHC	105	119	P/P	69 - 180
2352083	Beta-Cyfluthrin	64.5	89.6	P/P	18 - 175
2352083	Bifenthrin	57.7	77.0	P/P	21 - 128
2352083	Carbophenothion	74.7	85.2	P/P	10 - 126
2352083	Chlorothalonil	95.6	128	P/P	10 - 300
2352083	Cis-Nonachlor	79.4	81.1	P/P	34 - 106
2352083	Cypermethrin	67.2	87.0	P/P	22 - 158
2352083	Dacthal	86.5	101	P/P	54 - 116
2352083	DDD-p,p'	62.8	71.7	P/P	34 - 107
2352083	DDE-p,p'	59.4	68.3	P/P	33 - 110
2352083	DDT-p,p'	64.2	76.9	P/P	50 - 122
2352083	Delta-BHC	108	128	P/P	77 - 193
2352083	Deltamethrin	72.3	96.6	P/P	10 - 195
2352083	Dichlobenil	50.3	68.8	P/P	25 - 113
2352083	Dicofol	75.9	95.5	P/P	38 - 247
2352083	Dieldrin	64.3	70.6	P/P	45 - 118
2352083	Endosulfan I	62.0	75.7	P/P	51 - 106
2352083	Endosulfan II	64.6	71.8	P/P	37 - 122
2352083	Endosulfan Sulfate	71.5	82.5	P/P	43 - 132

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P418553

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352083	Endrin	73.7	92.4	P/P	29 - 101
2352083	Endrin Aldehyde	60.9	66.7	P/P	19 - 110
2352083	Endrin Ketone	89.3	107	P/P	60 - 140
2352083	Esfenvalerate	67.6	84.0	P/P	26 - 199
2352083	Ethalfuralin	62.4	77.6	P/P	45 - 99.0
2352083	Fenpropathrin	98.8	112	P/P	35 - 120
2352083	Gamma-BHC	87.2	99.3	P/P	63 - 128
2352083	Gamma-Chlordane	61.3	87.1	P/P	40 - 104
2352083	Heptachlor	52.1	62.5	P/P	36 - 97.0
2352083	Heptachlor Epoxide	74.8	94.5	P/P	49 - 184
2352083	Hexachlorobenzene	70.4	80.4	P/P	39 - 96.0
2352083	Kepone	46.1	67.8	P/P	10 - 217
2352083	Lambda-Cyhalothrin	63.6	87.3	P/P	21 - 193
2352083	Methoprene	62.5	82.4	P/P	20 - 106
2352083	Methoxychlor	76.0	90.2	P/P	53 - 118
2352083	MGK-264	69.7	79.3	P/P	40 - 118
2352083	Mirex	52.1	63.2	P/P	26 - 92.0
2352083	Oxychlordane	69.7	84.8	P/P	44 - 99.0
2352083	Permethrin	60.7	77.0	P/P	33 - 182
2352083	Phenothrin	88.5	92.0	P/P	10 - 129
2352083	Piperonyl Butoxide	73.3	92.1	P/P	10 - 211
2352083	Prallethrin	74.9	87.9	P/P	24 - 113
2352083	Tau-Fluvalinate	66.3	86.0	P/P	14 - 149
2352083	Tetramethrin	87.1	107	P/P	17 - 151
2352083	Trans-Nonachlor	70.0	93.3	P/P	42 - 102
2352083	Triclosan Methyl	58.9	73.7	P/P	48 - 108
2352083	Trifluralin	66.2	82.5	P/P	47 - 96.0
2352145	PCB-1016	85.5	82.7	P/P	46 - 111
2352145	PCB-1260	71.1	80.9	P/P	45 - 114

Reference Method: EPA 8276

Batch ID: P418553

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352145	Chlordane	95.3	99.4	P/P	53 - 126
2352145	Toxaphene	121	120	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P418299

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2350857	Acesulfame K	93.6	93.1	P/P	40 - 150
2350857	AMPA	98.0	103	P/P	40 - 150
2350857	Endothall	137	133	P/P	40 - 150
2350857	Glufosinate	107	107	P/P	40 - 150
2350857	Glyphosate	94.3	86.2	P/P	40 - 150
2350857	Sucralose	112	112	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P418568

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P418568

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2350906	2,4-D	69.7	86.2	P/P	40 - 150
2350906	2,4,5-T	56.4	64.9	P/P	40 - 150
2350906	Acetaminophen	74.2	82.2	P/P	30 - 150
2350906	Acetamiprid	60.7	78.2	P/P	40 - 150
2350906	Afidopyropen	72.4	84.3	P/P	30 - 150
2350906	Bentazon	101	113	P/P	30 - 150
2350906	Benzovindiflupyr	75.5	100	P/P	40 - 150
2350906	Carbamazepine	92.7	114	P/P	40 - 150
2350906	Clothianidin	77.2	81.5	P/P	40 - 150
2350906	Dinotefuran	86.7	101	P/P	40 - 150
2350906	Diuron	84.6	98.0	P/P	40 - 150
2350906	Fenuron	85.9	96.1	P/P	40 - 150
2350906	Fluridone	109	128	P/P	40 - 150
2350906	Hydrocodone	93.6	92.3	P/P	40 - 150
2350906	Ibuprofen	53.3	68.8	P/P	40 - 150
2350906	Imazapyr	61.9	70.6	P/P	40 - 150
2350906	Imidacloprid	66.6	72.3	P/P	40 - 150
2350906	Linuron	94.2	92.0	P/P	40 - 150
2350906	Mandestrobin	85.9	100	P/P	40 - 150
2350906	MCCP	75.9	85.5	P/P	40 - 150
2350906	Naproxen	116	97.8	P/P	40 - 150
2350906	Primidone	46.2	62.3	P/P	40 - 150
2350906	Pyraclostrobin	82.5	89.1	P/P	40 - 150
2350906	Silvex	59.5	74.6	P/P	40 - 150
2350906	Thiamethoxam	83.2	90.8	P/P	40 - 150
2350906	Tolfenpyrad	50.5	52.9	P/P	30 - 150
2350906	Triclopyr	62.3	83.0	P/P	40 - 150

Reference Method: SM 4500-F- C-2011

Batch ID: P418789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351424	Fluoride	99.5	99.5	P/P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P418825

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351255	Organic Carbon	98.1	98.2	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P418559

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351356	Color (true)	0.0118	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418572

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351247	Turbidity	2.28	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418557

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351315	Calcium	8.12	Spike	P	0 - 20
2351315	Iron	12.5	Spike	P	0 - 20
2351315	Magnesium	4.32	Spike	P	0 - 20
2351315	Strontium	8.97	Spike	P	0 - 20
2351315	Tin	18.8	Spike	P	0 - 20
2351315	Titanium	7.80	Spike	P	0 - 20
2351315	Vanadium	9.44	Spike	P	0 - 20
2351315	Zinc	10.0	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352235	Calcium	1.33	Spike	P	0 - 20
2352235	Iron	3.50	Spike	P	0 - 20
2352235	Magnesium	3.40	Spike	P	0 - 20
2352235	Potassium	1.68	Spike	P	0 - 20
2352235	Sodium	1.86	Spike	P	0 - 20
2352235	Strontium	2.63	Spike	P	0 - 20
2352235	Tin	2.22	Spike	P	0 - 20
2352235	Titanium	1.27	Spike	P	0 - 20
2352235	Vanadium	1.46	Spike	P	0 - 20
2352235	Zinc	1.77	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418557

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351315	Aluminum	0.440	Spike	P	0 - 20
2351315	Antimony	3.96	Spike	P	0 - 20
2351315	Arsenic	5.49	Spike	P	0 - 20
2351315	Beryllium	3.37	Spike	P	0 - 20
2351315	Cadmium	0.645	Spike	P	0 - 20
2351315	Chromium	3.38	Spike	P	0 - 20
2351315	Cobalt	2.09	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418557

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351315	Copper	2.34	Spike	P	0 - 20
2351315	Lead	2.36	Spike	P	0 - 20
2351315	Manganese	2.23	Spike	P	0 - 20
2351315	Molybdenum	1.50	Spike	P	0 - 20
2351315	Nickel	1.10	Spike	P	0 - 20
2351315	Selenium	0.961	Spike	P	0 - 20
2351315	Silver	2.61	Spike	P	0 - 20
2351315	Thallium	2.53	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418720

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352235	Aluminum	0.272	Spike	P	0 - 20
2352235	Antimony	1.55	Spike	P	0 - 20
2352235	Arsenic	2.90	Spike	P	0 - 20
2352235	Barium	0.371	Spike	P	0 - 20
2352235	Beryllium	4.46	Spike	P	0 - 20
2352235	Boron	2.20	Spike	P	0 - 20
2352235	Cadmium	0.359	Spike	P	0 - 20
2352235	Chromium	0.211	Spike	P	0 - 20
2352235	Cobalt	1.64	Spike	P	0 - 20
2352235	Copper	1.95	Spike	P	0 - 20
2352235	Lead	0.230	Spike	P	0 - 20
2352235	Manganese	0.367	Spike	P	0 - 20
2352235	Molybdenum	0.511	Spike	P	0 - 20
2352235	Nickel	2.14	Spike	P	0 - 20
2352235	Selenium	0.527	Spike	P	0 - 20
2352235	Silver	0.415	Spike	P	0 - 20
2352235	Thallium	0.728	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P418970

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351371	Chloride	0.0828	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P418973

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351371	Sulfate	0.349	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P418691

Replicated

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

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P418691

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351374	Ammonia-N	0.948	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P418649

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351525	Kjeldahl Nitrogen	3.39	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P418776

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351461	Kjeldahl Nitrogen	4.58	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P418752

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351255	NO2NO3-N	0.368	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P418753

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351370	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P418673

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351254	Total-P	2.04	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P418553

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352083	Aldrin	18.9	Spike	P	0 - 41
2352083	Alpha-BHC	16.8	Spike	P	0 - 25
2352083	Alpha-Chlordane	25.1	Spike	P	0 - 33
2352083	Beta-BHC	11.9	Spike	P	0 - 36
2352083	Beta-Cyfluthrin	32.6	Spike	P	0 - 42
2352083	Bifenthrin	28.6	Spike	P	0 - 53
2352083	Carbophenothion	13.2	Spike	P	0 - 30
2352083	Chlorothalonil	29.3	Spike	P	0 - 71
2352083	Cis-Nonachlor	2.13	Spike	P	0 - 29

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P418553

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352083	Cypermethrin	25.7	Spike	P	0 - 40
2352083	Dacthal	15.0	Spike	P	0 - 26
2352083	DDD-p,p'	13.2	Spike	P	0 - 39
2352083	DDE-p,p'	14.0	Spike	P	0 - 33
2352083	DDT-p,p'	17.9	Spike	P	0 - 40
2352083	Delta-BHC	16.9	Spike	P	0 - 37
2352083	Deltamethrin	28.8	Spike	P	0 - 100
2352083	Dichlobenil	31.0	Spike	P	0 - 40
2352083	Dicofol	22.9	Spike	P	0 - 31
2352083	Dieldrin	9.41	Spike	P	0 - 27
2352083	Endosulfan I	19.9	Spike	P	0 - 23
2352083	Endosulfan II	10.5	Spike	P	0 - 28
2352083	Endosulfan Sulfate	14.3	Spike	P	0 - 38
2352083	Endrin	22.5	Spike	P	0 - 63
2352083	Endrin Aldehyde	9.01	Spike	P	0 - 60
2352083	Endrin Ketone	17.7	Spike	P	0 - 37
2352083	Esfenvalerate	21.7	Spike	P	0 - 52
2352083	Ethalfuralin	21.7	Spike	P	0 - 23
2352083	Fenpropathrin	12.7	Spike	P	0 - 32
2352083	Gamma-BHC	13.0	Spike	P	0 - 17
2352083	Gamma-Chlordane	34.7	Spike	P	0 - 40
2352083	Heptachlor	18.0	Spike	P	0 - 29
2352083	Heptachlor Epoxide	23.3	Spike	P	0 - 25
2352083	Hexachlorobenzene	13.4	Spike	P	0 - 36
2352083	Kepone	38.0	Spike	P	0 - 93
2352083	Lambda-Cyhalothrin	31.4	Spike	P	0 - 55
2352083	Methoprene	27.5	Spike	P	0 - 53
2352083	Methoxychlor	17.1	Spike	P	0 - 29
2352083	MGK-264	12.9	Spike	P	0 - 35
2352083	Mirex	19.2	Spike	P	0 - 46
2352083	Oxychlordane	19.6	Spike	P	0 - 29
2352083	Permethrin	23.8	Spike	P	0 - 44
2352083	Phenothrin	3.90	Spike	P	0 - 56
2352083	Piperonyl Butoxide	22.7	Spike	P	0 - 100
2352083	Prallethrin	15.9	Spike	P	0 - 42
2352083	Tau-Fluvalinate	25.9	Spike	P	0 - 54
2352083	Tetramethrin	20.7	Spike	P	0 - 51
2352083	Trans-Nonachlor	28.5	Spike	P	0 - 37
2352083	Triclosan Methyl	22.3	Spike	P	0 - 31
2352083	Trifluralin	21.9	Spike	P	0 - 30
2352145	PCB-1016	3.34	Spike	P	0 - 32
2352145	PCB-1260	12.9	Spike	P	0 - 31

Reference Method: EPA 8276

Batch ID: P418553

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352145	Chlordane	4.23	Spike	P	0 - 25
2352145	Toxaphene	1.20	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P418299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2350857	Acesulfame K	0.483	Spike	P	0 - 30
2350857	AMPA	5.24	Spike	P	0 - 30
2350857	Endothall	2.47	Spike	P	0 - 30
2350857	Glufosinate	0.528	Spike	P	0 - 30
2350857	Glyphosate	8.95	Spike	P	0 - 30
2350857	Sucralose	0.163	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P418568

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2350906	2,4-D	17.5	Spike	P	0 - 30
2350906	2,4,5-T	14.0	Spike	P	0 - 30
2350906	Acetaminophen	10.2	Spike	P	0 - 30
2350906	Acetamiprid	25.3	Spike	P	0 - 30
2350906	Afidopyropen	15.1	Spike	P	0 - 30
2350906	Bentazon	10.1	Spike	P	0 - 30
2350906	Benzovindiflupyr	28.1	Spike	P	0 - 30
2350906	Carbamazepine	20.5	Spike	P	0 - 30
2350906	Clothianidin	5.49	Spike	P	0 - 30
2350906	Dinotefuran	15.3	Spike	P	0 - 30
2350906	Diuron	14.2	Spike	P	0 - 30
2350906	Fenuron	11.1	Spike	P	0 - 30
2350906	Fluridone	12.0	Spike	P	0 - 30
2350906	Hydrocodone	1.41	Spike	P	0 - 30
2350906	Ibuprofen	25.3	Spike	P	0 - 30
2350906	Imazapyr	12.0	Spike	P	0 - 30
2350906	Imidacloprid	8.26	Spike	P	0 - 30
2350906	Linuron	2.28	Spike	P	0 - 30
2350906	Mandestrobin	15.5	Spike	P	0 - 30
2350906	MCPP	11.9	Spike	P	0 - 30
2350906	Naproxen	16.7	Spike	P	0 - 30
2350906	Primidone	25.2	Spike	P	0 - 30
2350906	Pyraclostrobin	7.62	Spike	P	0 - 30
2350906	Silvex	22.6	Spike	P	0 - 30
2350906	Thiamethoxam	8.73	Spike	P	0 - 30
2350906	Tolfenpyrad	4.53	Spike	P	0 - 30
2350906	Triclopyr	28.5	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P418786

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351424	Total Alkalinity	1.58	Sample	P	0 - 3.8

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P419054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351596	Total Alkalinity	0.281	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P418978

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351251	TDS	1.68	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P418789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351424	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P418825

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351255	Organic Carbon	0.0271	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2351308
Field Sample ID: G2NE1180

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	72.5	P	29 - 130
EPA 8270E	Decachlorobiphenyl	98.7	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	49.8	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	72.9	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	80.5	P	30 - 101
EPA 8276	PCNB	92.2	P	48 - 121

Lab Sample ID: 2351309
Field Sample ID: 20030027FLA

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	70.0	P	29 - 130
EPA 8270E	Decachlorobiphenyl	84.1	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	53.1	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	68.3	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	89.8	P	30 - 101
EPA 8276	PCNB	90.0	P	48 - 121

Lab Sample ID: 2351310
Field Sample ID: 20030746

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	85.0	P	29 - 130
EPA 8270E	Decachlorobiphenyl	89.7	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	58.5	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	79.6	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	94.3	P	30 - 101
EPA 8276	PCNB	90.5	P	48 - 121

Lab Sample ID: 2351311
Field Sample ID: G2NE1207

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	67.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	76.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.3	P	30 - 160
EPA 8321B	Diuron-d6	91.6	P	30 - 160
EPA 8321B	Endothall-d6	104	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	92.4	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.9	P	30 - 160
EPA 8321B	Primidone-d5	57.9	P	30 - 160
EPA 8321B	Sucralose-d6	109	P	30 - 160

Lab Sample ID: 2351312
Field Sample ID: 20030746

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	73.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	78.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	81.1	P	30 - 160
EPA 8321B	Diuron-d6	78.6	P	30 - 160
EPA 8321B	Endothall-d6	146	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2351312

Field Sample ID: 20030746

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	87.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	48.9	P	30 - 160
EPA 8321B	Primidone-d5	56.1	P	30 - 160
EPA 8321B	Sucralose-d6	114	P	30 - 160

Lab Sample ID: 2351313

Field Sample ID: 20030748

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	62.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	71.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	86.1	P	30 - 160
EPA 8321B	Diuron-d6	80.0	P	30 - 160
EPA 8321B	Endothall-d6	147	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	79.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	47.0	P	30 - 160
EPA 8321B	Primidone-d5	47.1	P	30 - 160
EPA 8321B	Sucralose-d6	115	P	30 - 160

Lab Sample ID: 2351314

Field Sample ID: G2NE1192

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	83.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	75.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	93.6	P	30 - 160
EPA 8321B	Diuron-d6	91.7	P	30 - 160
EPA 8321B	Endothall-d6	143	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	36.1	P	30 - 160
EPA 8321B	Primidone-d5	56.1	P	30 - 160
EPA 8321B	Sucralose-d6	118	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A114285

Included Lab Sample IDs: 2351294

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114288

Included Lab Sample IDs: 2351292, 2351294

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114324

Included Lab Sample IDs: 2351315

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	95.0	93.1	P/P	90 - 110
Arsenic	107	106	P/P	90 - 110
Beryllium	99.0	104	P/P	90 - 110
Cadmium	101	99.8	P/P	90 - 110
Chromium	101	100	P/P	90 - 110
Cobalt	102	98.4	P/P	90 - 110
Copper	108	105	P/P	90 - 110
Lead	94.0	94.2	P/P	90 - 110
Manganese	101	98.1	P/P	90 - 110
Molybdenum	101	99.9	P/P	90 - 110
Nickel	107	104	P/P	90 - 110
Selenium	104	102	P/P	90 - 110
Silver	98.9	98.4	P/P	90 - 110
Thallium	104	105	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114332

Included Lab Sample IDs: 2351315

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	98.7	96.4	P/P	90 - 110
Iron	96.9	94.9	P/P	90 - 110
Magnesium	95.3	96.3	P/P	90 - 110
Strontium	98.2	98.7	P/P	90 - 110
Tin	97.1	92.7	P/P	90 - 110
Titanium	100	97.3	P/P	90 - 110
Vanadium	103	100	P/P	90 - 110
Zinc	105	97.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114346

Included Lab Sample IDs: 2351293, 2351295

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114354

Included Lab Sample IDs: 2351315

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	104	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A114368

Included Lab Sample IDs: 2351311, 2351312, 2351313, 2351314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	118	113	P/P	60 - 160
Sucralose	118	120	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A114369

Included Lab Sample IDs: 2351311, 2351312, 2351313, 2351314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	105	97.5	P/P	50 - 150
2,4-D	120	99.5	P/P	50 - 150
2,4-D	99.5	91.3	P/P	50 - 150
2,4,5-T	122	145	P/P	50 - 150
2,4,5-T	145	114	P/P	50 - 150
Acetaminophen	82.6	87.0	P/P	60 - 160
Acetaminophen	87.0	87.2	P/P	60 - 160
Acetamiprid	100	92.4	P/P	50 - 150
Acetamiprid	92.4	110	P/P	50 - 150
Afidopyropen	112	134	P/P	50 - 150
Afidopyropen	134	116	P/P	50 - 150
Bentazon	71.4	70.9	P/P	50 - 160
Bentazon	85.2	71.4	P/P	50 - 160
Benzovindiflupyr	101	105	P/P	50 - 150
Benzovindiflupyr	93.9	101	P/P	50 - 150
Carbamazepine	100	80.8	P/P	60 - 150
Carbamazepine	80.8	93.8	P/P	60 - 150
Clothianidin	84.8	99.0	P/P	60 - 150
Clothianidin	99.0	96.4	P/P	60 - 150
Dinotefuran	100	88.3	P/P	50 - 150
Dinotefuran	88.3	99.0	P/P	50 - 150
Diuron	102	104	P/P	60 - 160
Diuron	88.4	102	P/P	60 - 160
Fenuron	90.4	90.6	P/P	60 - 150
Fenuron	90.6	88.6	P/P	60 - 150
Fluridone	96.3	125	P/P	60 - 160
Fluridone	97.1	96.3	P/P	60 - 160
Hydrocodone	101	88.4	P/P	60 - 150
Hydrocodone	88.4	110	P/P	60 - 150
Ibuprofen	102	111	P/P	50 - 160
Ibuprofen	111	85.9	P/P	50 - 160
Imazapyr	79.3	79.8	P/P	50 - 150
Imazapyr	81.4	79.3	P/P	50 - 150
Imidacloprid	126	95.2	P/P	60 - 150
Imidacloprid	95.2	97.9	P/P	60 - 150
Linuron	104	103	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A114369

Included Lab Sample IDs: 2351311, 2351312, 2351313, 2351314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Linuron	84.8	104	P/P	60 - 150
Mandestrobin	96.6	97.0	P/P	50 - 150
Mandestrobin	97.0	99.5	P/P	50 - 150
MCPPE	91.9	94.0	P/P	50 - 150
MCPPE	94.0	106	P/P	50 - 150
Naproxen	124	145	P/P	50 - 160
Naproxen	99.1	124	P/P	50 - 160
Primidone	79.4	105	P/P	60 - 150
Primidone	88.0	79.4	P/P	60 - 150
Pyraclostrobin	110	104	P/P	60 - 150
Pyraclostrobin	98.6	110	P/P	60 - 150
Silvex	79.0	87.1	P/P	50 - 150
Silvex	87.1	91.0	P/P	50 - 150
Thiamethoxam	84.6	92.3	P/P	50 - 150
Thiamethoxam	92.3	98.7	P/P	50 - 150
Tolfenpyrad	105	105	P/P	60 - 150
Tolfenpyrad	97.8	105	P/P	60 - 150
Triclopyr	97.9	99.6	P/P	50 - 150
Triclopyr	99.6	74.6	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A114374

Included Lab Sample IDs: 2351311, 2351312, 2351313, 2351314

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	111	115	P/P	60 - 160
AMPA	114	111	P/P	60 - 160
Endothall	116	116	P/P	60 - 160
Endothall	132	116	P/P	60 - 160
Glufosinate	113	125	P/P	60 - 160
Glufosinate	119	123	P/P	60 - 160
Glyphosate	108	115	P/P	60 - 160
Glyphosate	111	111	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114378

Included Lab Sample IDs: 2351293, 2351295

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	95.0	93.0	P/P	90 - 110
NO2NO3-N	97.5	95.0	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A114388

Included Lab Sample IDs: 2351308, 2351309, 2351310

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	88.7		P	80 - 120
Alpha-BHC	96.5		P	80 - 120
Alpha-Chlordane	94.4		P	80 - 120
Beta-BHC	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A114388

Included Lab Sample IDs: 2351308, 2351309, 2351310

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-Cyfluthrin	84.7		P	80 - 120
Bifenthrin	87.8		P	80 - 120
Carbophenothion	102		P	80 - 120
Chlorothalonil	116		P	80 - 120
Cis-Nonachlor	88.8		P	80 - 120
Cypermethrin	80.1		P	80 - 120
Dacthal	96.5		P	80 - 120
DDD-p,p'	82.0		P	80 - 120
DDE-p,p'	84.6		P	80 - 120
DDT-p,p'	95.3		P	80 - 120
Delta-BHC	107		P	80 - 120
Deltamethrin	98.4		P	80 - 120
Dichlobenil	109		P	80 - 120
Dicofol	106		P	80 - 120
Dieldrin	82.6		P	80 - 120
Endosulfan I	83.3		P	80 - 120
Endosulfan II	87.0		P	80 - 120
Endosulfan Sulfate	88.6		P	80 - 120
Endrin	95.5		P	80 - 120
Endrin Aldehyde	93.2		P	80 - 120
Endrin Ketone	99.3		P	80 - 120
Esfenvalerate	89.6		P	80 - 120
Ethalfuralin	83.6		P	80 - 120
Fenpropathrin	109		P	80 - 120
Gamma-BHC	99.0		P	80 - 120
Gamma-Chlordane	95.9		P	80 - 120
Heptachlor	102		P	80 - 120
Heptachlor Epoxide	104		P	80 - 120
Hexachlorobenzene	111		P	80 - 120
Kepone	91.1		P	80 - 120
Lambda-Cyhalothrin	86.5		P	80 - 120
Methoprene	89.1		P	80 - 120
Methoxychlor	102		P	80 - 120
MGK-264	82.3		P	80 - 120
Mirex	86.8		P	80 - 120
Oxychlordane	116		P	80 - 120
Permethrin	80.4		P	80 - 120
Phenothrin	91.9		P	80 - 120
Piperonyl Butoxide	82.5		P	80 - 120
Prallethrin	90.8		P	80 - 120
Tau-Fluvalinate	94.5		P	80 - 120
Tetramethrin	88.5		P	80 - 120
Trans-Nonachlor	96.8		P	80 - 120
Triclosan Methyl	85.0		P	80 - 120
Trifluralin	93.1		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114390

Included Lab Sample IDs: 2351316, 2351317

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114390

Included Lab Sample IDs: 2351316, 2351317

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.6	99.7	P/P	90 - 110
Aluminum	99.7	98.0	P/P	90 - 110
Antimony	97.8	98.3	P/P	90 - 110
Antimony	98.3	98.5	P/P	90 - 110
Arsenic	101	98.4	P/P	90 - 110
Arsenic	105	101	P/P	90 - 110
Barium	98.0	97.3	P/P	90 - 110
Beryllium	93.3	93.2	P/P	90 - 110
Beryllium	95.3	93.3	P/P	90 - 110
Cadmium	100	101	P/P	90 - 110
Cadmium	101	102	P/P	90 - 110
Chromium	100	101	P/P	90 - 110
Chromium	101	100	P/P	90 - 110
Cobalt	101	95.3	P/P	90 - 110
Cobalt	95.3	92.4	P/P	90 - 110
Copper	105	98.6	P/P	90 - 110
Copper	98.6	95.6	P/P	90 - 110
Lead	91.7	91.3	P/P	90 - 110
Lead	93.0	91.7	P/P	90 - 110
Manganese	101	101	P/P	90 - 110
Manganese	101	101	P/P	90 - 110
Molybdenum	96.4	96.0	P/P	90 - 110
Molybdenum	98.7	96.4	P/P	90 - 110
Nickel	104	97.1	P/P	90 - 110
Nickel	97.1	95.0	P/P	90 - 110
Selenium	102	99.5	P/P	90 - 110
Selenium	102	102	P/P	90 - 110
Silver	95.9	96.1	P/P	90 - 110
Silver	98.0	95.9	P/P	90 - 110
Thallium	102	102	P/P	90 - 110
Thallium	103	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114393

Included Lab Sample IDs: 2351295

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.2	101	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A114396

Included Lab Sample IDs: 2351294

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

Reference Method: SM 4500-F- C-2011

Run ID: A114396

Included Lab Sample IDs: 2351292, 2351294

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

Reference Method: SM 4500-F- C-2011

Run ID: A114396

Included Lab Sample IDs: 2351292, 2351294

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114401

Included Lab Sample IDs: 2351293, 2351295

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

Reference Method: SM 5310 B-2011

Run ID: A114412

Included Lab Sample IDs: 2351293, 2351295

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.8	96.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114444

Included Lab Sample IDs: 2351293

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	93.4	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A114446

Included Lab Sample IDs: 2351294

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	100	P/P	90 - 110
Sulfate	99.6	99.7	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114451

Included Lab Sample IDs: 2351317

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Boron	92.9	92.4	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A114470

Included Lab Sample IDs: 2351308, 2351309, 2351310

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	103		P	80 - 120
PCB-1260	93.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A114472

Included Lab Sample IDs: 2351308, 2351309, 2351310

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	93.6		P	80 - 120
Chlordane	98.0		P	80 - 120
Toxaphene	101		P	80 - 120
Toxaphene	97.1		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A114513

Included Lab Sample IDs: 2351292

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.7	100	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114588

Included Lab Sample IDs: 2351316, 2351317

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	102	P/P	90 - 110
Calcium	102	101	P/P	90 - 110
Iron	103	101	P/P	90 - 110
Iron	103	103	P/P	90 - 110
Magnesium	102	101	P/P	90 - 110
Magnesium	102	102	P/P	90 - 110
Potassium	103	102	P/P	90 - 110
Sodium	102	102	P/P	90 - 110
Strontium	101	101	P/P	90 - 110
Strontium	99.8	101	P/P	90 - 110
Tin	101	101	P/P	90 - 110
Tin	102	101	P/P	90 - 110
Titanium	96.9	98.1	P/P	90 - 110
Titanium	98.1	97.4	P/P	90 - 110
Vanadium	96.2	97.8	P/P	90 - 110
Vanadium	97.3	96.2	P/P	90 - 110
Zinc	98.7	99.4	P/P	90 - 110
Zinc	99.4	99.4	P/P	90 - 110

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

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements. Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	99.4					0.0118	
EPA 180.1 Rev. 2.0	Turbidity	97.3					2.28	
EPA 200.7 Rev. 4.4	Calcium	100						8.12
	Calcium	101	99.0					1.33
	Iron	101	90.0	103				12.5
	Iron	108	106	103	104			3.50
	Magnesium	98.9						4.32
	Magnesium	107	104	99.9	104			3.40
	Potassium	100	101	104				1.68
	Sodium	108	105	102				1.86
	Strontium	100						8.97
	Strontium	105	105	102	104			2.63
	Tin	100	84.2	102				18.8
	Tin	106	104	101	103			2.22
	Titanium	100	90.7	99.3				7.80
	Titanium	103	102	100	103			1.27
	Vanadium	100	95.0	104				9.44
	Vanadium	103	102	100	104			1.46
	Zinc	101	88.4	97.8				10.0
	Zinc	104	102	100	102			1.77
EPA 200.8 Rev. 5.4	Aluminum	99.2	117	116				0.440
	Aluminum	101	98.7	98.4	97.9			0.272
	Antimony	95.3	94.3	98.1				3.96
	Antimony	100	104	103	104			1.55
	Arsenic	100	113	119				5.49
	Arsenic	101	103	101	99.9			2.90
	Barium	102	103	102	104			0.371
	Beryllium	94.7	99.1	103				3.37
	Beryllium	94.6	93.4	89.3	91.3			4.46
	Boron	100	97.4	95.1	96.0			2.20
	Cadmium	94.6	95.1	95.7				0.645
	Cadmium	96.1	101	101	98.6			0.359
	Chromium	96.3	92.8	96.0				3.38
	Chromium	98.1	101	101	102			0.211
	Cobalt	94.8	102	104				2.09
	Cobalt	97.0	97.8	96.2	93.2			1.64
	Copper	98.0	103	106				2.34
	Copper	99.0	98.3	96.4	93.9			1.95
	Lead	92.4	101	103				2.36
	Lead	93.2	93.5	93.7	94.0			0.230
	Manganese	96.8	92.1	95.0				2.23
	Manganese	98.5	101	102	102			0.367
	Molybdenum	96.9	114	116				1.50
	Molybdenum	97.4	102	101	100			0.511
	Nickel	97.9	109	111				1.10
	Nickel	99.6	101	99.1	96.2			2.14
	Selenium	98.2	102	103				0.961
	Selenium	99.4	100	99.9	97.6			0.527
	Silver	94.1	89.8	92.2				2.61
	Silver	98.1	98.2	98.6	97.7			0.415
	Thallium	98.6	108	111				2.53
	Thallium	98.6	100	101	100			0.728
EPA 300.0 Rev. 2.1	Chloride	98.3	96.3	97.7			0.0828	
	Sulfate	97.9	96.0	98.5			0.349	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 350.1 Rev. 2.0	Ammonia-N	98.2	96.8	97.8			0.948
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	91.2	95.6			3.39
	Kjeldahl Nitrogen	101					4.58
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.5	98.8	98.2			0.368
	NO ₂ NO ₃ -N	94.5	94.1	94.1			0.0
EPA 365.1 Rev. 2.0	Total-P	104	105	102			2.04
EPA 8270E	Aldrin	45.6	43.6	52.7			18.9
	Alpha-BHC	89.2	77.5	91.7			16.8
	Alpha-Chlordane	69.5	60.9	78.4			25.1
	Beta-BHC	104	105	119			11.9
	Beta-Cyfluthrin	67.6	64.5	89.6			32.6
	Bifenthrin	52.9	57.7	77.0			28.6
	Carbophenothion	59.8	74.7	85.2			13.2
	Chlorothalonil	80.2	95.6	128			29.3
	Cis-Nonachlor	66.5	79.4	81.1			2.13
	Cypermethrin	67.4	67.2	87.0			25.7
	Dacthal	85.8	86.5	101			15.0
	DDD-p,p'	65.1	62.8	71.7			13.2
	DDE-p,p'	62.7	59.4	68.3			14.0
	DDT-p,p'	66.5	64.2	76.9			17.9
	Delta-BHC	107	108	128			16.9
	Deltamethrin	69.7	72.3	96.6			28.8
	Dichlobenil	97.6	50.3	68.8			31.0
	Dicofol	74.6	75.9	95.5			22.9
	Dieldrin	66.6	64.3	70.6			9.41
	Endosulfan I	72.5	62.0	75.7			19.9
	Endosulfan II	73.9	64.6	71.8			10.5
	Endosulfan Sulfate	78.8	71.5	82.5			14.3
	Endrin	75.6	73.7	92.4			22.5
	Endrin Aldehyde	73.0	60.9	66.7			9.01
	Endrin Ketone	102	89.3	107			17.7
	Esfenvalerate	67.2	67.6	84.0			21.7
	Ethalfuralin	59.6	62.4	77.6			21.7
	Fenpropathrin	81.5	98.8	112			12.7
	Gamma-BHC	91.6	87.2	99.3			13.0
	Gamma-Chlordane	66.6	61.3	87.1			34.7
	Heptachlor	65.0	52.1	62.5			18.0
	Heptachlor Epoxide	81.0	74.8	94.5			23.3
	Hexachlorobenzene	75.1	70.4	80.4			13.4
	Kepone	64.9	46.1	67.8			38.0
	Lambda-Cyhalothrin	57.7	63.6	87.3			31.4
	Methoprene	62.1	62.5	82.4			27.5
	Methoxychlor	80.9	76.0	90.2			17.1
	MGK-264	76.2	69.7	79.3			12.9
	Mirex	48.0	52.1	63.2			19.2
	Oxychlordane	71.8	69.7	84.8			19.6
	PCB-1016	94.8	85.5	82.7			3.34
	PCB-1260	90.2	71.1	80.9			12.9
	Permethrin	62.0	60.7	77.0			23.8
	Phenothrin	59.7	88.5	92.0			3.90
	Piperonyl Butoxide	92.2	73.3	92.1			22.7
	Prallethrin	82.5	74.9	87.9			15.9
	Tau-Fluvalinate	62.0	66.3	86.0			25.9
	Tetramethrin	89.9	87.1	107			20.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Trans-Nonachlor	64.3	70.0	93.3			28.5
	Triclosan Methyl	70.1	58.9	73.7			22.3
	Trifluralin	63.7	66.2	82.5			21.9
EPA 8276	Chlordane	110	95.3	99.4			4.23
	Toxaphene	125	121	120			1.20
EPA 8321B	2,4-D	63.3	69.7	86.2			17.5
	2,4,5-T	60.3	56.4	64.9			14.0
	Acesulfame K	99.5	93.6	93.1			0.483
	Acetaminophen	75.8	74.2	82.2			10.2
	Acetamiprid	76.4	60.7	78.2			25.3
	Afidopyropen	64.6	72.4	84.3			15.1
	AMPA	112	98.0	103			5.24
	Bentazon	98.0	101	113			10.1
	Benzovindiflupyr	95.6	75.5	100			28.1
	Carbamazepine	89.5	92.7	114			20.5
	Clothianidin	74.5	77.2	81.5			5.49
	Dinotefuran	82.1	86.7	101			15.3
	Diuron	91.7	84.6	98.0			14.2
	Endothall	120	137	133			2.47
	Fenuron	90.4	85.9	96.1			11.1
	Fluridone	90.0	109	128			12.0
	Glufosinate	125	107	107			0.528
	Glyphosate	103	94.3	86.2			8.95
	Hydrocodone	81.0	93.6	92.3			1.41
	Ibuprofen	92.3	53.3	68.8			25.3
	Imazapyr	71.9	61.9	70.6			12.0
	Imidacloprid	76.5	66.6	72.3			8.26
	Linuron	89.4	94.2	92.0			2.28
	Mandestrobin	84.3	85.9	100			15.5
	MCPP	82.6	75.9	85.5			11.9
	Naproxen	127	116	97.8			16.7
	Primidone	83.5	46.2	62.3			25.2
	Pyraclostrobin	75.6	82.5	89.1			7.62
	Silvex	62.9	59.5	74.6			22.6
	Sucralose	113	112	112			0.163
	Thiamethoxam	78.0	83.2	90.8			8.73
	Tolfenpyrad	44.7	50.5	52.9			4.53
	Triclopyr	57.1	62.3	83.0			28.5
SM 2320 B-2011	Total Alkalinity	101				1.58	
	Total Alkalinity	100				0.281	
SM 2540 C-2011	TDS					1.68	
SM 4500-F- C-2011	Fluoride	101	99.5	99.5			0.0
SM 5310 B-2011	Organic Carbon	97.2	98.1	98.2			0.0271

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2351294
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2351292, 2351294
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2351315, 2351316, 2351317
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2351315, 2351316, 2351317

Reference Method Descriptions

Method	Description	Associated Samples
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2351294
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2351294
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2351293, 2351295
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2351293, 2351295
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2351293, 2351295
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2351293, 2351295
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2351308, 2351309, 2351310
EPA 8270E	PCBs in water matrices by GC/MS/MS	2351308, 2351309, 2351310
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2351308, 2351309, 2351310
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2351311, 2351312, 2351313, 2351314
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2351292, 2351294
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2351317
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2351294
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2351292, 2351294
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2351292, 2351294
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2351293, 2351295

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	08/23/2022			08/23/2022 15:39	Blanca Fach	2351294
EPA 180.1 Rev. 2.0	08/23/2022			08/23/2022 14:09	Chandler E Cox	2351292
	08/23/2022			08/23/2022 14:11	Chandler E Cox	2351294
EPA 200.7 Rev. 4.4	08/23/2022	08/24/2022 10:10	Megan Whitefoot	08/24/2022 22:58	McKinley C Carter	2351315
	08/23/2022	08/24/2022 10:10	Megan Whitefoot	08/24/2022 23:57	McKinley C Carter	2351315
	08/23/2022	08/26/2022 10:10	Megan Whitefoot	09/07/2022 22:47	McKinley C Carter	2351316
	08/23/2022	08/26/2022 10:10	Megan Whitefoot	09/07/2022 23:31	McKinley C Carter	2351317
EPA 200.8 Rev. 5.4	08/23/2022	08/24/2022 10:10	Megan Whitefoot	08/25/2022 01:41	Alexander Thompson	2351315
	08/23/2022	08/24/2022 10:10	Megan Whitefoot	08/25/2022 03:34	Alexander Thompson	2351315
	08/23/2022	08/24/2022 10:10	Megan Whitefoot	08/25/2022 17:45	Alexander Thompson	2351315
	08/23/2022	08/26/2022 10:10	Megan Whitefoot	08/28/2022 19:47	Emily M Philpot	2351316
	08/23/2022	08/26/2022 10:10	Megan Whitefoot	08/28/2022 20:54	Emily M Philpot	2351317
	08/23/2022	08/26/2022 10:10	Megan Whitefoot	08/31/2022 04:30	Emily M Philpot	2351317
EPA 300.0 Rev. 2.1	08/23/2022			09/01/2022 00:33	Anna M. Plaviak	2351294
EPA 350.1 Rev. 2.0	08/23/2022			08/25/2022 13:30	Ping Hua	2351293
	08/23/2022			08/25/2022 13:31	Ping Hua	2351295
EPA 351.2 Rev. 2.0	08/23/2022	08/25/2022 14:20	Alexandra J Mattheus	08/26/2022 14:41	Alexandra J Mattheus	2351295
	08/23/2022	08/30/2022 09:19	Samantha L Bates	08/30/2022 13:57	Alexandra J Mattheus	2351293
EPA 353.2 Rev. 2.0	08/23/2022			08/26/2022 11:14	Beverly Y. Sanders	2351293
	08/23/2022			08/26/2022 11:27	Beverly Y. Sanders	2351295
EPA 365.1 Rev. 2.0	08/23/2022	08/25/2022 15:50	Simonne.V. Calhoun	08/29/2022 10:24	James L Waggeberby	2351293
	08/23/2022	08/25/2022 15:50	Simonne.V. Calhoun	08/29/2022 10:25	James L Waggeberby	2351295
EPA 8270E	08/23/2022	08/25/2022 08:00	Fe-Val Siddell	08/26/2022 16:26	Vandana T. Nagar	2351308
	08/23/2022	08/25/2022 08:00	Fe-Val Siddell	08/26/2022 16:56	Vandana T. Nagar	2351309
	08/23/2022	08/25/2022 08:00	Fe-Val Siddell	08/26/2022 17:26	Vandana T. Nagar	2351310
	08/23/2022	08/25/2022 08:00	Fe-Val Siddell	08/31/2022 22:35	Vandana T. Nagar	2351308
	08/23/2022	08/25/2022 08:00	Fe-Val Siddell	08/31/2022 23:05	Vandana T. Nagar	2351309
	08/23/2022	08/25/2022 08:00	Fe-Val Siddell	08/31/2022 23:35	Vandana T. Nagar	2351310
EPA 8276	08/23/2022	08/25/2022 08:00	Fe-Val Siddell	08/31/2022 09:12	Arthur Maknenko	2351308
	08/23/2022	08/25/2022 08:00	Fe-Val Siddell	08/31/2022 10:09	Arthur Maknenko	2351309
	08/23/2022	08/25/2022 08:00	Fe-Val Siddell	08/31/2022 12:04	Arthur Maknenko	2351310
EPA 8321B	08/23/2022	08/24/2022 13:00	Umesh Chiluwal	08/24/2022 15:53	Umesh Chiluwal	2351311
	08/23/2022	08/24/2022 13:00	Umesh Chiluwal	08/24/2022 16:08	Umesh Chiluwal	2351312
	08/23/2022	08/24/2022 13:00	Umesh Chiluwal	08/24/2022 16:23	Umesh Chiluwal	2351313
	08/23/2022	08/24/2022 13:00	Umesh Chiluwal	08/24/2022 16:38	Umesh Chiluwal	2351314
	08/23/2022	08/24/2022 13:00	Umesh Chiluwal	08/25/2022 00:36	Umesh Chiluwal	2351311
	08/23/2022	08/24/2022 13:00	Umesh Chiluwal	08/25/2022 01:02	Umesh Chiluwal	2351312
	08/23/2022	08/24/2022 13:00	Umesh Chiluwal	08/25/2022 01:15	Umesh Chiluwal	2351313
	08/23/2022	08/24/2022 13:00	Umesh Chiluwal	08/25/2022 01:28	Umesh Chiluwal	2351314
	08/23/2022	08/24/2022 13:00	Umesh Chiluwal	08/25/2022 08:32	Umesh Chiluwal	2351311

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	08/23/2022	08/25/2022 09:30	June Rhew	08/26/2022 19:44	Juyoung Kim	2351311
	08/23/2022	08/25/2022 09:30	June Rhew	08/26/2022 20:04	Juyoung Kim	2351312
	08/23/2022	08/25/2022 09:30	June Rhew	08/26/2022 20:46	Juyoung Kim	2351313
	08/23/2022	08/25/2022 09:30	June Rhew	08/26/2022 21:07	Juyoung Kim	2351314
	08/23/2022	08/25/2022 09:30	June Rhew	08/29/2022 09:25	Juyoung Kim	2351314
SM 2320 B-2011	08/23/2022			08/26/2022 23:51	Adam P Silver	2351294
	08/23/2022			08/31/2022 19:15	Dale L. Simmons	2351292
SM 2340 B-2011	08/23/2022			09/07/2022 23:31	McKinley C Carter	2351317
SM 2540 C-2011	08/23/2022			08/25/2022 13:46	Yijie Li	2351294
SM 2540 D-2011	08/23/2022			08/25/2022 13:46	Yijie Li	2351292, 2351294
SM 4500-F- C-2011	08/23/2022			08/26/2022 23:51	Adam P Silver	2351294
	08/23/2022			08/27/2022 03:02	Adam P Silver	2351292
SM 5310 B-2011	08/23/2022			08/30/2022 02:09	Khloe J Berg	2351293
	08/23/2022			08/30/2022 02:23	Khloe J Berg	2351295