

Chemical Analysis Report

NE-DIST-2022-02-10-01

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

Event Description: **LSJR Southside 2022**
Request ID: **RQ-2022-02-07-28**
Customer: **NE-DIST**
Project ID: **SMP**

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

Date Certified: 04-MAR-2022 16:47



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: Goodbys CR @ SR-13

Collection Date/Time: 02/09/2022 09:20

Field ID: 20030518

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305031	EPA 8270E	Aldrin	0.67	U	ng/L	P409707	
		Alpha-BHC	0.10	U	ng/L	P409707	
		Alpha-Chlordane	0.21	U	ng/L	P409707	
		PCB-1016	2.1	U	ng/L	P409707	
		Beta-BHC	0.10	U	ng/L	P409707	
		PCB-1221	2.1	U	ng/L	P409707	
		Beta-Cyfluthrin**	1.3	U	ng/L	P409707	
		PCB-1232	2.1	U	ng/L	P409707	
		Bifenthrin**	0.52	U	ng/L	P409707	RPD
		PCB-1242	2.1	U	ng/L	P409707	
		Carbophenothion	0.93	U	ng/L	P409707	
		PCB-1248	2.1	U	ng/L	P409707	
		Chlorothalonil	1.3	U	ng/L	P409707	
		PCB-1254	2.1	U	ng/L	P409707	
		Cis-Nonachlor**	0.21	U	ng/L	P409707	
		PCB-1260	2.1	U	ng/L	P409707	
		Cypermethrin	1.5	U	ng/L	P409707	
		Dacthal**	0.15	U	ng/L	P409707	
		DDD-p,p'	0.26	U	ng/L	P409707	
		DDE-p,p'	0.21	U	ng/L	P409707	
		DDT-p,p'	0.26	U	ng/L	P409707	
		Delta-BHC	0.41	U	ng/L	P409707	
		Deltamethrin**	1.3	U	ng/L	P409707	
		Dichlobenil**	0.26	U	ng/L	P409707	
		Dicofol	1.3	U	ng/L	P409707	
		Dieldrin	0.44	I	ng/L	P409707	
		Endosulfan I	0.41	U	ng/L	P409707	
		Endosulfan II	0.41	U	ng/L	P409707	
		Endosulfan Sulfate	0.31	U	ng/L	P409707	
		Endrin	0.41	UQJ	ng/L	P410329	LCS, RPD
		Endrin Aldehyde	0.77	UQ	ng/L	P410329	
		Endrin Ketone	0.41	UJ	ng/L	P409707	LCS
		Esfenvalerate**	0.77	U	ng/L	P409707	
		Ethalfuralin**	0.15	U	ng/L	P409707	
		Fenpropathrin**	0.26	U	ng/L	P409707	
		Gamma-BHC	0.13	U	ng/L	P409707	
		Gamma-Chlordane	0.21	U	ng/L	P409707	
		Heptachlor	0.21	U	ng/L	P409707	
		Heptachlor Epoxide	0.26	U	ng/L	P409707	
		Hexachlorobenzene	1.0	U	ng/L	P409707	
		Kepone**	5.2	U	ng/L	P409707	RPD
		Lambda-Cyhalothrin**	0.77	U	ng/L	P409707	
		Methoprene**	0.77	UQ	ng/L	P410329	
		Methoxychlor	0.31	U	ng/L	P409707	

Field ID: 20030518

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305031	EPA 8270E	MGK-264**	0.21	U	ng/L	P409707	
		Mirex	0.72	U	ng/L	P409707	
		Oxychlordane**	0.31	U	ng/L	P409707	
		Permethrin	1.6	U	ng/L	P409707	
		Phenothrin**	0.93	U	ng/L	P409707	
		Piperonyl Butoxide**	0.31	I QJ	ng/L	P410329	LCS, MS
		Prallethrin**	2.1	UQ	ng/L	P410329	
		Tau-Fluvalinate**	0.26	U	ng/L	P409707	
		Tetramethrin**	0.77	UQ	ng/L	P410329	
		Trans-Nonachlor**	0.21	U	ng/L	P409707	
		Triclosan Methyl**	0.15	U	ng/L	P409707	
		Trifluralin	0.21	U	ng/L	P409707	
		Chlordane	2.6	U	ng/L	P409707	
		Toxaphene	15	U	ng/L	P409707	
2305037	EPA 200.7 Rev. 4.4	Calcium	54.9		mg/L	P409769	
		Iron	720		ug/L	P409769	
		Magnesium	47.5		mg/L	P409769	
		Strontium	735		ug/L	P409769	
		Tin	15	U	ug/L	P409769	
		Vanadium	2.0	U	ug/L	P409769	
		Zinc	6.1	I	ug/L	P409769	
	EPA 200.8 Rev. 5.4	Aluminum	90		ug/L	P409769	
		Antimony	0.12	I	ug/L	P409769	
		Arsenic	1.56		ug/L	P409769	
		Beryllium	0.016	I	ug/L	P409769	
		Cadmium	0.020	U	ug/L	P409769	
		Chromium	0.40	U	ug/L	P409769	
		Cobalt	0.088		ug/L	P409769	
		Copper	1.45		ug/L	P409769	
		Lead	0.39	I	ug/L	P409769	
		Manganese	19.4		ug/L	P409769	
		Molybdenum	1.0		ug/L	P409769	
		Nickel	0.50	U	ug/L	P409769	
		Selenium	0.20	U	ug/L	P409769	MS
		Silver	0.010	U	ug/L	P409769	

Ref. Method and Comment:

EPA 8270E: MS accuracy for phenothrin not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes. Insufficient sample available to perform duplicate matrix spikes in re-extraction. Sample expired for preparation for some analyte due to need for re-extraction.

Sample Location: Goodbys CR at Baymeadows

Collection Date/Time: 02/09/2022 09:35

Field ID: 20030593

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305032	EPA 8270E	Aldrin	0.66	U	ng/L	P409707	
		Alpha-BHC	0.10	U	ng/L	P409707	
		Alpha-Chlordane	0.20	U	ng/L	P409707	
		PCB-1016	2.0	U	ng/L	P409707	
		Beta-BHC	0.10	U	ng/L	P409707	
		PCB-1221	2.0	U	ng/L	P409707	
		Beta-Cyfluthrin**	1.3	U	ng/L	P409707	
		PCB-1232	2.0	U	ng/L	P409707	
		Bifenthrin**	0.51	U	ng/L	P409707	RPD
		PCB-1242	2.0	U	ng/L	P409707	
		Carbophenothion	0.92	U	ng/L	P409707	
		PCB-1248	2.0	U	ng/L	P409707	
		Chlorothalonil	1.3	U	ng/L	P409707	
		PCB-1254	2.0	U	ng/L	P409707	
		Cis-Nonachlor**	0.20	U	ng/L	P409707	
		PCB-1260	2.0	U	ng/L	P409707	
		Cypermethrin	1.5	U	ng/L	P409707	
		Dacthal**	0.15	U	ng/L	P409707	
		DDD-p,p'	0.26	U	ng/L	P409707	
		DDE-p,p'	0.20	U	ng/L	P409707	
		DDT-p,p'	0.26	U	ng/L	P409707	
		Delta-BHC	0.41	U	ng/L	P409707	
		Deltamethrin**	1.3	U	ng/L	P409707	
		Dichlobenil**	0.26	U	ng/L	P409707	
		Dicofol	1.3	U	ng/L	P409707	
		Dieldrin	0.56	I	ng/L	P409707	
		Endosulfan I	0.41	U	ng/L	P409707	
		Endosulfan II	0.41	U	ng/L	P409707	
		Endosulfan Sulfate	0.31	U	ng/L	P409707	
		Endrin	0.41	UQJ	ng/L	P410329	LCS, RPD
		Endrin Aldehyde	0.77	UQ	ng/L	P410329	
		Endrin Ketone	0.41	UJ	ng/L	P409707	LCS
		Esfenvalerate**	0.77	U	ng/L	P409707	
		Ethalfuralin**	0.15	U	ng/L	P409707	
		Fenpropathrin**	0.26	U	ng/L	P409707	
		Gamma-BHC	0.13	U	ng/L	P409707	
		Gamma-Chlordane	0.20	U	ng/L	P409707	
		Heptachlor	0.20	U	ng/L	P409707	
		Heptachlor Epoxide	0.26	U	ng/L	P409707	
		Hexachlorobenzene	1.0	U	ng/L	P409707	
		Kepone**	5.1	U	ng/L	P409707	RPD
		Lambda-Cyhalothrin**	0.77	U	ng/L	P409707	
		Methoprene**	0.77	UQ	ng/L	P410329	
		Methoxychlor	0.31	U	ng/L	P409707	

Field ID: 20030593

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305032	EPA 8270E	MGK-264**	0.20	U	ng/L	P409707	
		Mirex	0.71	U	ng/L	P409707	
		Oxychlordane**	0.31	U	ng/L	P409707	
		Permethrin	1.6	U	ng/L	P409707	
		Phenothrin**	0.92	U	ng/L	P409707	
		Piperonyl Butoxide**	0.51	I QJ	ng/L	P410329	LCS, MS
		Prallethrin**	2.0	UQ	ng/L	P410329	
		Tau-Fluvalinate**	0.26	U	ng/L	P409707	
		Tetramethrin**	0.77	UQ	ng/L	P410329	
		Trans-Nonachlor**	0.20	U	ng/L	P409707	
		Triclosan Methyl**	0.15	U	ng/L	P409707	
		Trifluralin	0.20	U	ng/L	P409707	
	EPA 8276	Chlordane	2.6	U	ng/L	P409707	
		Toxaphene	15	U	ng/L	P409707	
2305038	EPA 200.7 Rev. 4.4	Calcium	52.3		mg/L	P409769	
		Iron	1.23E+03		ug/L	P409769	
		Magnesium	32.4		mg/L	P409769	
		Strontium	585		ug/L	P409769	
		Tin	3.0	U	ug/L	P409769	
		Vanadium	2.0	U	ug/L	P409769	
		Zinc	12	I	ug/L	P409769	
	EPA 200.8 Rev. 5.4	Aluminum	111		ug/L	P409769	
		Antimony	0.14	I	ug/L	P409769	
		Arsenic	2.06		ug/L	P409769	
		Beryllium	0.015	I	ug/L	P409769	
		Cadmium	0.020	U	ug/L	P409769	
		Chromium	0.47	I	ug/L	P409769	
		Cobalt	0.117		ug/L	P409769	
		Copper	1.31		ug/L	P409769	
		Lead	0.42		ug/L	P409769	
		Manganese	28.2		ug/L	P409769	
		Molybdenum	1.21		ug/L	P409769	
		Nickel	0.50	U	ug/L	P409769	
		Selenium	0.20	U	ug/L	P409769	MS
		Silver	0.010	U	ug/L	P409769	

Ref. Method and Comment:

EPA 8270E: MS accuracy for phenothrin not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes. Insufficient sample available to perform duplicate matrix spikes in re-extraction. Sample expired for preparation for some analyte due to need for re-extraction.

Sample Location: Goodbys Creek at Sanchez Rd.

Collection Date/Time: 02/09/2022 09:50

Field ID: 20030594

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305033	EPA 8270E	Aldrin	0.67	U	ng/L	P409707	
		Alpha-BHC	0.10	U	ng/L	P409707	
		Alpha-Chlordane	0.20	U	ng/L	P409707	
		PCB-1016	2.0	U	ng/L	P409707	
		Beta-BHC	0.10	U	ng/L	P409707	
		PCB-1221	2.0	U	ng/L	P409707	
		Beta-Cyfluthrin**	1.3	U	ng/L	P409707	
		PCB-1232	2.0	U	ng/L	P409707	
		Bifenthrin**	0.51	U	ng/L	P409707	RPD
		PCB-1242	2.0	U	ng/L	P409707	
		Carbophenothion	0.92	U	ng/L	P409707	
		PCB-1248	2.0	U	ng/L	P409707	
		Chlorothalonil	1.3	U	ng/L	P409707	
		PCB-1254	2.0	U	ng/L	P409707	
		Cis-Nonachlor**	0.20	U	ng/L	P409707	
		PCB-1260	2.0	U	ng/L	P409707	
		Cypermethrin	1.5	U	ng/L	P409707	
		Dacthal**	0.15	U	ng/L	P409707	
		DDD-p,p'	0.26	U	ng/L	P409707	
		DDE-p,p'	0.20	U	ng/L	P409707	
		DDT-p,p'	0.26	U	ng/L	P409707	
		Delta-BHC	0.41	U	ng/L	P409707	
		Deltamethrin**	1.3	U	ng/L	P409707	
		Dichlobenil**	0.26	U	ng/L	P409707	
		Dicofol	1.3	U	ng/L	P409707	
		Dieldrin	0.62	I	ng/L	P409707	
		Endosulfan I	0.41	U	ng/L	P409707	
		Endosulfan II	0.41	U	ng/L	P409707	
		Endosulfan Sulfate	0.31	U	ng/L	P409707	
		Endrin	0.41	UQJ	ng/L	P410329	LCS, RPD
		Endrin Aldehyde	0.77	UQ	ng/L	P410329	
		Endrin Ketone	0.41	UJ	ng/L	P409707	LCS
		Esfenvalerate**	0.77	U	ng/L	P409707	
		Ethalfuralin**	0.15	U	ng/L	P409707	
		Fenpropathrin**	0.26	U	ng/L	P409707	
		Gamma-BHC	0.13	U	ng/L	P409707	
		Gamma-Chlordane	0.20	U	ng/L	P409707	
		Heptachlor	0.20	U	ng/L	P409707	
		Heptachlor Epoxide	0.27	I	ng/L	P409707	
		Hexachlorobenzene	1.0	U	ng/L	P409707	
		Kepone**	5.1	U	ng/L	P409707	RPD
		Lambda-Cyhalothrin**	0.77	U	ng/L	P409707	
		Methoprene**	0.77	UQ	ng/L	P410329	
		Methoxychlor	0.31	U	ng/L	P409707	

Field ID: 20030594

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305033	EPA 8270E	MGK-264**	0.20	U	ng/L	P409707	
		Mirex	0.72	U	ng/L	P409707	
		Oxychlordane**	0.31	U	ng/L	P409707	
		Permethrin	1.6	U	ng/L	P409707	
		Phenothrin**	0.92	U	ng/L	P409707	
		Piperonyl Butoxide**	0.58	I QJ	ng/L	P410329	LCS, MS
		Prallethrin**	2.0	UQ	ng/L	P410329	
		Tau-Fluvalinate**	0.26	U	ng/L	P409707	
		Tetramethrin**	0.77	UQ	ng/L	P410329	
		Trans-Nonachlor**	0.20	U	ng/L	P409707	
		Triclosan Methyl**	0.15	U	ng/L	P409707	
		Trifluralin	0.20	U	ng/L	P409707	
	EPA 8276	Chlordane	2.6	U	ng/L	P409707	
		Toxaphene	15	U	ng/L	P409707	
2305039	EPA 200.7 Rev. 4.4	Calcium	47.8		mg/L	P409769	
		Iron	1.56E+03		ug/L	P409769	
		Magnesium	15.6		mg/L	P409769	
		Strontium	427		ug/L	P409769	
		Tin	3.0	U	ug/L	P409769	
		Vanadium	2.0	U	ug/L	P409769	
		Zinc	5.7	I	ug/L	P409769	
	EPA 200.8 Rev. 5.4	Aluminum	76		ug/L	P409769	
		Antimony	0.14	I	ug/L	P409769	
		Arsenic	2.04		ug/L	P409769	
		Beryllium	0.012	I	ug/L	P409769	
		Cadmium	0.020	U	ug/L	P409769	
		Chromium	0.40	U	ug/L	P409769	
		Cobalt	0.092		ug/L	P409769	
		Copper	1.21		ug/L	P409769	
		Lead	0.31	I	ug/L	P409769	
		Manganese	26.9		ug/L	P409769	
		Molybdenum	0.99		ug/L	P409769	
		Nickel	0.50	U	ug/L	P409769	
		Selenium	0.20	U	ug/L	P409769	MS
		Silver	0.010	U	ug/L	P409769	

Ref. Method and Comment:

EPA 8270E: MS accuracy for phenothrin not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes. Insufficient sample available to perform duplicate matrix spikes in re-extraction. Sample expired for preparation for some analyte due to need for re-extraction.

Sample Location: Miramar at San Jose

Collection Date/Time: 02/09/2022 12:30

Field ID: G2NE1164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305023	DEP SOP: NU-094-1	Color (true)**	15		PCU	P409715	
	EPA 180.1 Rev. 2.0	Turbidity	11		NTU	P409701	
	EPA 300.0 Rev. 2.1	Chloride	32		mg Cl/L	P409887	
		Sulfate	70		mg SO4/L	P409890	
	SM 2320 B-2011	Total Alkalinity	77		mg CaCO3/L	P409858	
	SM 2540 C-2011	TDS	246		mg/L	P410072	
	SM 2540 D-2011	TSS	4	I	mg/L	P409826	
	SM 4500 F-C-2011	Fluoride	0.11		mg F/L	P409861	
2305024	EPA 350.1 Rev. 2.0	Ammonia-N	0.18		mg N/L	P409955	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.58		mg N/L	P409788	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.0		mg N/L	P409843	
	EPA 365.1 Rev. 2.0	Total-P	0.048		mg P/L	P410094	
	SM 5310 B-2011	Organic Carbon	4.3		mg C/L	P410384	
2305025	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.013		mg P/L	P409692	
2305030	EPA 8270E	Aldrin	0.66	U	ng/L	P409707	
		Alpha-BHC	0.10	I	ng/L	P409707	
		Alpha-Chlordane	0.86	I	ng/L	P409707	
		PCB-1016	2.0	U	ng/L	P409707	
		Beta-BHC	0.47	I	ng/L	P409707	
		PCB-1221	2.0	U	ng/L	P409707	
		Beta-Cyfluthrin**	1.3	U	ng/L	P409707	
		PCB-1232	2.0	U	ng/L	P409707	
		Bifenthrin**	0.51	U	ng/L	P409707	RPD
		PCB-1242	2.0	U	ng/L	P409707	
		Carbophenothion	0.92	U	ng/L	P409707	
		PCB-1248	2.0	U	ng/L	P409707	
		Chlorothalonil	1.3	U	ng/L	P409707	
		PCB-1254	2.0	U	ng/L	P409707	
		Cis-Nonachlor**	0.20	U	ng/L	P409707	
		PCB-1260	2.0	U	ng/L	P409707	
		Cypermethrin	1.5	U	ng/L	P409707	
		Dacthal**	0.15	U	ng/L	P409707	
		DDD-p,p'	0.26	U	ng/L	P409707	
		DDE-p,p'	0.20	U	ng/L	P409707	
		DDT-p,p'	0.26	U	ng/L	P409707	
		Delta-BHC	0.99	I	ng/L	P409707	
		Deltamethrin**	1.3	U	ng/L	P409707	
		Dichlobenil**	0.26	U	ng/L	P409707	
		Dicofol	1.3	U	ng/L	P409707	
		Diieldrin	8.6		ng/L	P409707	
		Endosulfan I	0.41	U	ng/L	P409707	
		Endosulfan II	0.41	U	ng/L	P409707	
		Endosulfan Sulfate	0.31	U	ng/L	P409707	

Field ID: G2NE1164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305030	EPA 8270E	Endrin	0.41	UQJ	ng/L	P410329	LCS, RPD
		Endrin Aldehyde	0.77	UQ	ng/L	P410329	
		Endrin Ketone	0.45	I J	ng/L	P409707	LCS
		Esfenvalerate**	0.77	U	ng/L	P409707	
		Ethalfuralin**	0.15	U	ng/L	P409707	
		Fenpropathrin**	0.26	U	ng/L	P409707	
		Gamma-BHC	0.13	U	ng/L	P409707	
		Gamma-Chlordane	0.48	I	ng/L	P409707	
		Heptachlor	0.20	U	ng/L	P409707	
		Heptachlor Epoxide	2.4		ng/L	P409707	
		Hexachlorobenzene	1.0	U	ng/L	P409707	
		Kepone**	5.1	U	ng/L	P409707	RPD
		Lambda-Cyhalothrin**	0.77	U	ng/L	P409707	
		Methoprene**	0.77	UQ	ng/L	P410329	
		Methoxychlor	0.31	U	ng/L	P409707	
		MGK-264**	0.20	U	ng/L	P409707	
		Mirex	0.72	U	ng/L	P409707	
		Oxychlordane**	0.31	U	ng/L	P409707	
		Permethrin	1.6	U	ng/L	P409707	
		Phenothrin**	0.92	U	ng/L	P409707	
		Piperonyl Butoxide**	0.25	I QJ	ng/L	P410329	LCS, MS
		Prallethrin**	2.0	UQ	ng/L	P410329	
		Tau-Fluvalinate**	0.26	U	ng/L	P409707	
		Tetramethrin**	0.77	UQ	ng/L	P410329	
		Trans-Nonachlor**	0.20	U	ng/L	P409707	
		Triclosan Methyl**	0.15	U	ng/L	P409707	
		Trifluralin	0.20	U	ng/L	P409707	
	EPA 8276	Chlordane	5.5	I	ng/L	P409707	
		Toxaphene	15	U	ng/L	P409707	

Ref. Method and Comment:

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

EPA 8270E: MS accuracy for phenothrin not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes. Insufficient sample available to perform duplicate matrix spikes in re-extraction. Sample expired for preparation for some analytes due to need for re-extraction.

Sample Location: Big Pottsburg CR at Belfort Rd.

Collection Date/Time: 02/09/2022 13:20

Field ID: 20030064

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305034	EPA 8270E	Aldrin	0.67	U	ng/L	P409707	
		Alpha-BHC	0.10	U	ng/L	P409707	
		Alpha-Chlordane	0.20	U	ng/L	P409707	
		PCB-1016	2.0	U	ng/L	P409707	
		Beta-BHC	0.10	U	ng/L	P409707	
		PCB-1221	2.0	U	ng/L	P409707	
		Beta-Cyfluthrin**	1.3	U	ng/L	P409707	
		PCB-1232	2.0	U	ng/L	P409707	
		Bifenthrin**	0.51	U	ng/L	P409707	RPD
		PCB-1242	2.0	U	ng/L	P409707	
		Carbophenothion	0.92	U	ng/L	P409707	
		PCB-1248	2.0	U	ng/L	P409707	
		Chlorothalonil	1.3	U	ng/L	P409707	
		PCB-1254	2.0	U	ng/L	P409707	
		Cis-Nonachlor**	0.20	U	ng/L	P409707	
		PCB-1260	2.0	U	ng/L	P409707	
		Cypermethrin	1.5	U	ng/L	P409707	
		Dacthal**	0.15	U	ng/L	P409707	
		DDD-p,p'	0.26	U	ng/L	P409707	
		DDE-p,p'	0.20	U	ng/L	P409707	
		DDT-p,p'	0.26	U	ng/L	P409707	
		Delta-BHC	0.41	U	ng/L	P409707	
		Deltamethrin**	1.3	U	ng/L	P409707	
		Dichlobenil**	0.26	U	ng/L	P409707	
		Dicofol	1.3	U	ng/L	P409707	
		Dieldrin	0.41	U	ng/L	P409707	
		Endosulfan I	0.41	U	ng/L	P409707	
		Endosulfan II	0.41	U	ng/L	P409707	
		Endosulfan Sulfate	0.31	U	ng/L	P409707	
		Endrin	0.42	UQJ	ng/L	P410329	LCS, RPD
		Endrin Aldehyde	0.78	UQ	ng/L	P410329	
		Endrin Ketone	0.41	UJ	ng/L	P409707	LCS
		Esfenvalerate**	0.77	U	ng/L	P409707	
		Ethalfuralin**	0.15	U	ng/L	P409707	
		Fenpropathrin**	0.26	U	ng/L	P409707	
		Gamma-BHC	0.13	U	ng/L	P409707	
		Gamma-Chlordane	0.20	U	ng/L	P409707	
		Heptachlor	0.20	U	ng/L	P409707	
		Heptachlor Epoxide	0.26	U	ng/L	P409707	
		Hexachlorobenzene	1.0	U	ng/L	P409707	
		Kepone**	5.1	U	ng/L	P409707	RPD
		Lambda-Cyhalothrin**	0.77	U	ng/L	P409707	
		Methoprene**	0.78	UQ	ng/L	P410329	
		Methoxychlor	0.31	U	ng/L	P409707	

Field ID: 20030064

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305034	EPA 8270E	MGK-264**	0.20	U	ng/L	P409707	
		Mirex	0.72	U	ng/L	P409707	
		Oxychlordane**	0.31	U	ng/L	P409707	
		Permethrin	1.6	U	ng/L	P409707	
		Phenothrin**	0.92	U	ng/L	P409707	
		Piperonyl Butoxide**	0.23	I QJ	ng/L	P410329	LCS, MS
		Prallethrin**	2.1	UQ	ng/L	P410329	
		Tau-Fluvalinate**	0.26	U	ng/L	P409707	
		Tetramethrin**	0.78	UQ	ng/L	P410329	
		Trans-Nonachlor**	0.20	U	ng/L	P409707	
		Triclosan Methyl**	0.15	U	ng/L	P409707	
		Trifluralin	0.20	U	ng/L	P409707	
	EPA 8276	Chlordane	2.6	U	ng/L	P409707	
		Toxaphene	15	U	ng/L	P409707	

Ref. Method and Comment:

EPA 8270E: MS accuracy for phenothrin not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes. Insufficient sample available to perform duplicate matrix spikes in re-extraction. Sample expired for preparation for some analyte due to need for re-extraction.

Sample Location: Big Pottsburg CR Bowden Rd.

Collection Date/Time: 02/09/2022 12:55

Field ID: 20030068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305035	EPA 8270E	Aldrin	0.66	U	ng/L	P409707	
		Alpha-BHC	0.10	U	ng/L	P409707	
		Alpha-Chlordane	0.31	I	ng/L	P409707	
		PCB-1016	2.0	U	ng/L	P409707	
		Beta-BHC	0.10	U	ng/L	P409707	
		PCB-1221	2.0	U	ng/L	P409707	
		Beta-Cyfluthrin**	1.3	U	ng/L	P409707	
		PCB-1232	2.0	U	ng/L	P409707	
		Bifenthrin**	0.51	U	ng/L	P409707	RPD
		PCB-1242	2.0	U	ng/L	P409707	
		Carbophenothion	0.92	U	ng/L	P409707	
		PCB-1248	2.0	U	ng/L	P409707	
		Chlorothalonil	1.3	U	ng/L	P409707	
		PCB-1254	2.0	U	ng/L	P409707	
		Cis-Nonachlor**	0.20	U	ng/L	P409707	
		PCB-1260	2.0	U	ng/L	P409707	
		Cypermethrin	1.5	U	ng/L	P409707	
		Dacthal**	0.15	U	ng/L	P409707	
		DDD-p,p'	0.32	I	ng/L	P409707	
		DDE-p,p'	0.38	I	ng/L	P409707	
		DDT-p,p'	0.53	I	ng/L	P409707	
		Delta-BHC	0.41	U	ng/L	P409707	
		Deltamethrin**	1.3	U	ng/L	P409707	
		Dichlobenil**	0.26	U	ng/L	P409707	
		Dicofol	1.3	U	ng/L	P409707	
		Dieldrin	0.91	I	ng/L	P409707	
		Endosulfan I	0.41	U	ng/L	P409707	
		Endosulfan II	0.41	U	ng/L	P409707	
		Endosulfan Sulfate	0.31	U	ng/L	P409707	
		Endrin	0.41	UQJ	ng/L	P410329	LCS, RPD
		Endrin Aldehyde	0.77	UQ	ng/L	P410329	
		Endrin Ketone	0.41	UJ	ng/L	P409707	LCS
		Esfenvalerate**	0.77	U	ng/L	P409707	
		Ethalfuralin**	0.15	U	ng/L	P409707	
		Fenpropathrin**	0.26	U	ng/L	P409707	
		Gamma-BHC	0.13	U	ng/L	P409707	
		Gamma-Chlordane	0.22	I	ng/L	P409707	
		Heptachlor	0.20	U	ng/L	P409707	
		Heptachlor Epoxide	0.26	U	ng/L	P409707	
		Hexachlorobenzene	1.0	U	ng/L	P409707	
		Kepone**	5.1	U	ng/L	P409707	RPD
		Lambda-Cyhalothrin**	0.77	U	ng/L	P409707	
		Methoprene**	0.77	UQ	ng/L	P410329	
		Methoxychlor	0.31	U	ng/L	P409707	

Field ID: 20030068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305035	EPA 8270E	MGK-264**	0.20	U	ng/L	P409707	
		Mirex	0.71	U	ng/L	P409707	
		Oxychlordane**	0.31	U	ng/L	P409707	
		Permethrin	1.6	U	ng/L	P409707	
		Phenothrin**	0.92	U	ng/L	P409707	
		Piperonyl Butoxide**	0.47	I QJ	ng/L	P410329	LCS, MS
		Prallethrin**	2.0	UQ	ng/L	P410329	
		Tau-Fluvalinate**	0.26	U	ng/L	P409707	
		Tetramethrin**	0.77	UQ	ng/L	P410329	
		Trans-Nonachlor**	0.20	U	ng/L	P409707	
		Triclosan Methyl**	0.15	U	ng/L	P409707	
		Trifluralin	0.20	U	ng/L	P409707	
	EPA 8276	Chlordane	2.6	U	ng/L	P409707	
		Toxaphene	15	U	ng/L	P409707	

Ref. Method and Comment:

EPA 8270E: MS accuracy for phenothrin not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes. Insufficient sample available to perform duplicate matrix spikes in re-extraction. Sample expired for preparation for some analyte due to need for re-extraction.

Sample Location: Field Blank

Collection Date/Time: 02/09/2022 13:05

Field ID: FB_02092022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305036	EPA 8270E	Aldrin	0.67	U	ng/L	P409707	
		Alpha-BHC	0.10	U	ng/L	P409707	
		Alpha-Chlordane	0.21	U	ng/L	P409707	
		PCB-1016	2.1	U	ng/L	P409707	
		Beta-BHC	0.10	U	ng/L	P409707	
		PCB-1221	2.1	U	ng/L	P409707	
		Beta-Cyfluthrin**	1.3	U	ng/L	P409707	
		PCB-1232	2.1	U	ng/L	P409707	
		Bifenthrin**	0.51	U	ng/L	P409707	RPD
		PCB-1242	2.1	U	ng/L	P409707	
		Carbophenothion	0.92	U	ng/L	P409707	
		PCB-1248	2.1	U	ng/L	P409707	
		Chlorothalonil	1.3	U	ng/L	P409707	
		PCB-1254	2.1	U	ng/L	P409707	
		Cis-Nonachlor**	0.21	U	ng/L	P409707	
		PCB-1260	2.1	U	ng/L	P409707	
		Cypermethrin	1.5	U	ng/L	P409707	
		Dacthal**	0.15	U	ng/L	P409707	
		DDD-p,p'	0.26	U	ng/L	P409707	
		DDE-p,p'	0.21	U	ng/L	P409707	
		DDT-p,p'	0.26	U	ng/L	P409707	
		Delta-BHC	0.41	U	ng/L	P409707	
		Deltamethrin**	1.3	U	ng/L	P409707	
		Dichlobenil**	0.26	U	ng/L	P409707	
		Dicofol	1.3	U	ng/L	P409707	
		Dieldrin	0.41	U	ng/L	P409707	
		Endosulfan I	0.41	U	ng/L	P409707	
		Endosulfan II	0.41	U	ng/L	P409707	
		Endosulfan Sulfate	0.31	U	ng/L	P409707	
		Endrin	0.41	UQJ	ng/L	P410329	LCS, RPD
		Endrin Aldehyde	0.77	UQ	ng/L	P410329	
		Endrin Ketone	0.41	UJ	ng/L	P409707	LCS
		Esfenvalerate**	0.77	U	ng/L	P409707	
		Ethalfuralin**	0.15	U	ng/L	P409707	
		Fenpropathrin**	0.26	U	ng/L	P409707	
		Gamma-BHC	0.13	U	ng/L	P409707	
		Gamma-Chlordane	0.21	U	ng/L	P409707	
		Heptachlor	0.21	U	ng/L	P409707	
		Heptachlor Epoxide	0.26	U	ng/L	P409707	
		Hexachlorobenzene	1.0	U	ng/L	P409707	
		Kepone**	5.1	U	ng/L	P409707	RPD
		Lambda-Cyhalothrin**	0.77	U	ng/L	P409707	
		Methoprene**	0.77	UQ	ng/L	P410329	
		Methoxychlor	0.31	U	ng/L	P409707	

Field ID: FB_02092022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305036	EPA 8270E	MGK-264**	0.21	U	ng/L	P409707	
		Mirex	0.72	U	ng/L	P409707	
		Oxychlordane**	0.31	U	ng/L	P409707	
		Permethrin	1.6	U	ng/L	P409707	
		Phenothrin**	0.92	U	ng/L	P409707	
		Piperonyl Butoxide**	0.15	UQJ	ng/L	P410329	LCS, MS
		Prallethrin**	2.1	UQ	ng/L	P410329	
		Tau-Fluvalinate**	0.26	U	ng/L	P409707	
		Tetramethrin**	0.77	UQ	ng/L	P410329	
		Trans-Nonachlor**	0.21	U	ng/L	P409707	
		Triclosan Methyl**	0.15	U	ng/L	P409707	
		Trifluralin	0.21	U	ng/L	P409707	
	EPA 8276	Chlordane	2.6	U	ng/L	P409707	
		Toxaphene	15	U	ng/L	P409707	

Ref. Method and Comment:

EPA 8270E: MS accuracy for phenothrin not assessed due to high content of this parameter in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes. Insufficient sample available to perform duplicate matrix spikes in re-extraction. Sample expired for preparation for some analyte due to need for re-extraction.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P409715

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409701

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409769

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
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409769

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
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409887

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409890

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409955

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409788

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409843

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410094

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409692

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

Reference Method: EPA 8270E
Batch ID: P409707

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409707

Component	Result	Code	Units
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin 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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P409707

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
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	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: P410329

Component	Result	Code	Units
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
Methoprene	0.75	U	ng/L
Methoprene	0.75	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
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L

Reference Method: EPA 8276

Batch ID: P409707

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P409858

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2011
Batch ID: P410072

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P409826

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P409861

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P410384

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: P409715

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409701

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409769

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	106		P	85 - 115
Iron	107		P	85 - 115
Magnesium	106		P	85 - 115
Strontium	105		P	85 - 115
Tin	109		P	85 - 115
Vanadium	99.4		P	85 - 115
Zinc	105		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409769

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	98.9		P	85 - 115
Arsenic	102		P	85 - 115
Beryllium	98.8		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	96.5		P	85 - 115
Cobalt	102		P	85 - 115
Copper	98.4		P	85 - 115
Lead	99.1		P	85 - 115
Manganese	98.3		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	104		P	85 - 115
Selenium	101		P	85 - 115
Silver	99.9		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409887

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409890

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P409955

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P409788

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: P409843

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P410094

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P409692

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

Reference Method: EPA 8270E

Batch ID: P409707

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	41.0		P	10 - 93.0
Alpha-BHC	90.5		P	75 - 106
Alpha-Chlordane	73.8		P	50 - 109
Beta-BHC	112		P	65 - 135
Beta-Cyfluthrin	63.3		P	23 - 167
Bifenthrin	48.7		P	11 - 123
Carbophenothion	57.4		P	18 - 96.0
Chlorothalonil	80.4		P	26 - 182
Cis-Nonachlor	69.1		P	40 - 111
Cypermethrin	68.1		P	25 - 155
Dacthal	86.2		P	73 - 112
DDD-p,p'	70.4		P	47 - 108
DDE-p,p'	74.7		P	48 - 107
DDT-p,p'	82.6		P	49 - 111
Delta-BHC	111		P	68 - 143
Deltamethrin	70.5		P	16 - 176
Dichlobenil	79.7		P	32 - 113
Dicofol	67.0		P	50 - 108
Dieldrin	60.2		P	56 - 110
Endosulfan I	77.7		P	60 - 105
Endosulfan II	66.7		P	50 - 120
Endosulfan Sulfate	80.6		P	55 - 121

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P409707

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Ketone	141		F	56 - 130
Esfenvalerate	62.3		P	10 - 179
Ethalfuralin	62.5		P	49 - 99.0
Fenpropathrin	50.6		P	35 - 119
Gamma-BHC	75.7		P	72 - 115
Gamma-Chlordane	68.7		P	45 - 107
Heptachlor	56.6		P	41 - 100
Heptachlor Epoxide	73.7		P	58 - 106
Hexachlorobenzene	70.2		P	39 - 100
Kepone	67.1		P	10 - 191
Lambda-Cyhalothrin	61.0		P	10 - 186
Methoxychlor	76.8		P	61 - 111
MGK-264	60.1		P	20 - 123
Mirex	45.4		P	10 - 182
Oxychlordane	70.8		P	39 - 110
PCB-1016	71.0		P	49 - 111
PCB-1260	95.1		P	42 - 116
Permethrin	70.6		P	26 - 152
Phenothrin	37.3		P	10 - 109
Tau-Fluvalinate	42.0		P	16 - 134
Trans-Nonachlor	69.7		P	45 - 107
Triclosan Methyl	77.1		P	60 - 110
Trifluralin	69.4		P	49 - 98.0

Reference Method: EPA 8270E

Batch ID: P410329

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin	32.9	24.7	P/F	31 - 119
Endrin Aldehyde	50.5	41.2	P/P	36 - 116
Methoprene	33.0	23.9	P/P	10 - 129
Piperonyl Butoxide	11.0	8.54	F/F	27 - 142
Prallethrin	51.5	55.1	P/P	14 - 109
Tetramethrin	107	66.2	P/P	10 - 125

Reference Method: EPA 8276

Batch ID: P409707

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	94.7		P	61 - 118
Toxaphene	76.6		P	51 - 122

Reference Method: SM 2320 B-2011

Batch ID: P409858

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.4		P	94 - 106

Reference Method: SM 4500 F-C-2011

Batch ID: P409861

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

Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P409861

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.7		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P410384

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P409769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304833	Calcium	110		P	80 - 120
2304833	Iron	111	107	P/P	80 - 120
2304833	Magnesium	108		P	80 - 120
2304833	Strontium	107	101	P/P	80 - 120
2304833	Tin	110	105	P/P	80 - 120
2304833	Vanadium	103	98.0	P/P	80 - 120
2304833	Zinc	106	100	P/P	80 - 120
2305312	Calcium	109		P	80 - 120
2305312	Iron	109		P	80 - 120
2305312	Magnesium	109		P	80 - 120
2305312	Strontium	105		P	80 - 120
2305312	Tin	108		P	80 - 120
2305312	Vanadium	99.5		P	80 - 120
2305312	Zinc	104		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304833	Aluminum	102	102	P/P	80 - 120
2304833	Antimony	103	102	P/P	80 - 120
2304833	Arsenic	103	103	P/P	80 - 120
2304833	Beryllium	95.6	97.6	P/P	80 - 120
2304833	Cadmium	102	104	P/P	80 - 120
2304833	Chromium	100	101	P/P	80 - 120
2304833	Cobalt	103	102	P/P	80 - 120
2304833	Copper	98.7	99.3	P/P	80 - 120
2304833	Lead	99.7	101	P/P	80 - 120
2304833	Manganese	101	102	P/P	80 - 120
2304833	Molybdenum	105	105	P/P	80 - 120
2304833	Nickel	102	101	P/P	80 - 120
2304833	Selenium	79.5	79.2	F/F	80 - 120
2304833	Silver	102	102	P/P	80 - 120
2305312	Aluminum	102		P	80 - 120
2305312	Antimony	99.9		P	80 - 120
2305312	Arsenic	99.7		P	80 - 120
2305312	Beryllium	93.3		P	80 - 120
2305312	Cadmium	102		P	80 - 120
2305312	Chromium	99.0		P	80 - 120
2305312	Cobalt	99.9		P	80 - 120
2305312	Copper	97.8		P	80 - 120
2305312	Lead	100		P	80 - 120
2305312	Manganese	97.7		P	80 - 120
2305312	Molybdenum	101		P	80 - 120
2305312	Nickel	98.4		P	80 - 120
2305312	Selenium	99.7		P	80 - 120
2305312	Silver	98.6		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P409887

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409887

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304818	Chloride	102		P	90 - 110
2305040	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409890

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304818	Sulfate	99.5		P	90 - 110
2305040	Sulfate	99.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409955

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304223	Ammonia-N	96.8	99.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409788

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305024	Kjeldahl Nitrogen	101	93.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409843

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304820	NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410094

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305014	Total-P	106	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409692

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304770	O-Phosphate-P	101	103	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P409707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304547	PCB-1016	79.0	75.3	P/P	46 - 110
2304547	PCB-1260	106	104	P/P	42 - 111
2304810	Aldrin	55.2	53.2	P/P	10 - 89.0
2304810	Alpha-BHC	91.2	87.5	P/P	71 - 105
2304810	Alpha-Chlordane	69.0	66.5	P/P	43 - 107
2304810	Beta-BHC	86.2	79.7	P/P	57 - 152
2304810	Beta-Cyfluthrin	117	125	P/P	29 - 186
2304810	Bifenthrin	41.6	60.7	P/P	19 - 119

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P409707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304810	Carbophenothion	82.6	80.2	P/P	19 - 107
2304810	Chlorothalonil	148	126	P/P	10 - 245
2304810	Cis-Nonachlor	68.7	69.9	P/P	36 - 110
2304810	Cypermethrin	101	109	P/P	24 - 169
2304810	Dacthal	85.0	82.0	P/P	62 - 115
2304810	DDD-p,p'	65.4	69.5	P/P	36 - 109
2304810	DDE-p,p'	73.8	69.8	P/P	30 - 114
2304810	DDT-p,p'	79.0	75.4	P/P	42 - 108
2304810	Delta-BHC	91.9	83.8	P/P	60 - 164
2304810	Deltamethrin	121	119	P/P	10 - 210
2304810	Dichlobenil	70.9	66.1	P/P	23 - 108
2304810	Dicofol	76.2	76.1	P/P	44 - 109
2304810	Dieldrin	66.5	71.9	P/P	37 - 119
2304810	Endosulfan I	78.6	75.7	P/P	52 - 105
2304810	Endosulfan II	78.2	82.7	P/P	35 - 127
2304810	Endosulfan Sulfate	79.4	73.9	P/P	39 - 130
2304810	Endrin Ketone	122	99.7	P/P	48 - 134
2304810	Esfenvalerate	103	107	P/P	10 - 199
2304810	Ethalfuralin	70.9	69.5	P/P	48 - 95.0
2304810	Fenpropathrin	80.6	92.0	P/P	37 - 121
2304810	Gamma-BHC	81.9	82.1	P/P	61 - 126
2304810	Gamma-Chlordane	69.6	64.8	P/P	39 - 105
2304810	Heptachlor	72.5	70.7	P/P	38 - 96.0
2304810	Heptachlor Epoxide	74.7	73.3	P/P	42 - 114
2304810	Hexachlorobenzene	70.5	68.6	P/P	39 - 93.0
2304810	Kepone	55.8	20.0	P/P	10 - 215
2304810	Lambda-Cyhalothrin	120	137	P/P	10 - 204
2304810	Methoxychlor	87.6	87.0	P/P	56 - 115
2304810	MGK-264	74.0	72.8	P/P	35 - 120
2304810	Mirex	56.9	57.9	P/P	10 - 178
2304810	Oxychlordane	72.2	75.8	P/P	47 - 91.0
2304810	Permethrin	102	114	P/P	27 - 170
2304810	Tau-Fluvalinate	74.5	87.0	P/P	16 - 158
2304810	Trans-Nonachlor	72.3	68.1	P/P	43 - 102
2304810	Triclosan Methyl	74.2	72.8	P/P	49 - 109
2304810	Trifluralin	74.8	69.3	P/P	48 - 93.0

Reference Method: EPA 8270E

Batch ID: P410329

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304526	Endrin	41.8		P	30 - 116
2304526	Endrin Aldehyde	52.9		P	20 - 110
2304526	Methoprene	23.3		P	17 - 108
2304526	Piperonyl Butoxide	13.1		F	23 - 150
2304526	Prallethrin	51.1		P	21 - 113
2304526	Tetramethrin	62.7		P	22 - 132

Reference Method: EPA 8276

Batch ID: P409707

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

Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P409707

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304547	Chlordane	84.1	85.5	P/P	55 - 128
2304547	Toxaphene	77.8	79.6	P/P	57 - 211

Reference Method: SM 4500 F-C-2011
Batch ID: P409861

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304920	Fluoride	98.7	98.1	P/P	92 - 107

Reference Method: SM 5310 B-2011
Batch ID: P410384

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304631	Organic Carbon	97.7	95.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P409715

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305011	Color (true)	0.755	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P409701

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305040	Turbidity	12.8	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304833	Calcium	4.87	Spike	P	0 - 20
2304833	Iron	4.13	Spike	P	0 - 20
2304833	Magnesium	4.40	Spike	P	0 - 20
2304833	Strontium	4.68	Spike	P	0 - 20
2304833	Tin	4.72	Spike	P	0 - 20
2304833	Vanadium	5.25	Spike	P	0 - 20
2304833	Zinc	5.10	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304833	Aluminum	0.613	Spike	P	0 - 20
2304833	Antimony	1.04	Spike	P	0 - 20
2304833	Arsenic	0.462	Spike	P	0 - 20
2304833	Beryllium	2.05	Spike	P	0 - 20
2304833	Cadmium	2.02	Spike	P	0 - 20
2304833	Chromium	0.394	Spike	P	0 - 20
2304833	Cobalt	0.196	Spike	P	0 - 20
2304833	Copper	0.663	Spike	P	0 - 20
2304833	Lead	1.68	Spike	P	0 - 20
2304833	Manganese	0.733	Spike	P	0 - 20
2304833	Molybdenum	0.118	Spike	P	0 - 20
2304833	Nickel	0.784	Spike	P	0 - 20
2304833	Selenium	0.347	Spike	P	0 - 20
2304833	Silver	0.265	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304818	Chloride	1.53	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P409890

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304818	Sulfate	0.221	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P409955

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304223	Ammonia-N	2.10	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P409788

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305024	Kjeldahl Nitrogen	5.30	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P409843

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304820	NO2NO3-N	0.976	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P410094

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305014	Total-P	2.32	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P409692

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304770	O-Phosphate-P	1.18	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P409707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304547	PCB-1016	4.81	Spike	P	0 - 22
2304547	PCB-1260	2.27	Spike	P	0 - 30
2304810	Aldrin	3.72	Spike	P	0 - 37
2304810	Alpha-BHC	4.11	Spike	P	0 - 16
2304810	Alpha-Chlordane	3.59	Spike	P	0 - 28
2304810	Beta-BHC	7.80	Spike	P	0 - 32
2304810	Beta-Cyfluthrin	6.84	Spike	P	0 - 41
2304810	Bifenthrin	37.3	Spike	F	0 - 36
2304810	Carbophenothion	3.00	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P409707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304810	Chlorothalonil	16.1	Spike	P	0 - 54
2304810	Cis-Nonachlor	1.78	Spike	P	0 - 33
2304810	Cypermethrin	8.16	Spike	P	0 - 38
2304810	Dacthal	3.53	Spike	P	0 - 23
2304810	DDD-p,p'	6.07	Spike	P	0 - 35
2304810	DDE-p,p'	5.56	Spike	P	0 - 27
2304810	DDT-p,p'	4.42	Spike	P	0 - 31
2304810	Delta-BHC	9.22	Spike	P	0 - 30
2304810	Deltamethrin	1.71	Spike	P	0 - 76
2304810	Dichlobenil	7.06	Spike	P	0 - 33
2304810	Dicofol	0.127	Spike	P	0 - 24
2304810	Dieldrin	7.83	Spike	P	0 - 35
2304810	Endosulfan I	3.70	Spike	P	0 - 25
2304810	Endosulfan II	5.65	Spike	P	0 - 31
2304810	Endosulfan Sulfate	7.26	Spike	P	0 - 38
2304810	Endrin Ketone	19.9	Spike	P	0 - 33
2304810	Esfenvalerate	3.77	Spike	P	0 - 46
2304810	Ethalfuralin	2.02	Spike	P	0 - 22
2304810	Fenpropathrin	13.2	Spike	P	0 - 29
2304810	Gamma-BHC	0.278	Spike	P	0 - 17
2304810	Gamma-Chlordane	7.14	Spike	P	0 - 28
2304810	Heptachlor	2.52	Spike	P	0 - 28
2304810	Heptachlor Epoxide	1.83	Spike	P	0 - 23
2304810	Hexachlorobenzene	2.70	Spike	P	0 - 22
2304810	Kepone	94.4	Spike	F	0 - 61
2304810	Lambda-Cyhalothrin	13.3	Spike	P	0 - 52
2304810	Methoxychlor	0.691	Spike	P	0 - 29
2304810	MGK-264	1.71	Spike	P	0 - 41
2304810	Mirex	1.88	Spike	P	0 - 39
2304810	Oxychlordane	4.94	Spike	P	0 - 33
2304810	Permethrin	11.1	Spike	P	0 - 39
2304810	Phenothrin	38.0	Spike	P	0 - 52
2304810	Tau-Fluvalinate	15.5	Spike	P	0 - 41
2304810	Trans-Nonachlor	5.85	Spike	P	0 - 31
2304810	Triclosan Methyl	1.96	Spike	P	0 - 24
2304810	Trifluralin	7.62	Spike	P	0 - 23

Reference Method: EPA 8270E
Batch ID: P410329

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Endrin	28.6	LCS	F	0 - 20
LFB	Endrin Aldehyde	20.3	LCS	P	0 - 33
LFB	Methoprene	31.8	LCS	P	0 - 48
LFB	Piperonyl Butoxide	25.1	LCS	P	0 - 36
LFB	Prallethrin	6.58	LCS	P	0 - 41
LFB	Tetramethrin	46.8	LCS	P	0 - 66

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P409707

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304547	Chlordane	1.71	Spike	P	0 - 25
2304547	Toxaphene	2.25	Spike	P	0 - 24

Reference Method: SM 2320 B-2011
Batch ID: P409858

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304920	Total Alkalinity	2.25	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P410072

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305049	TDS	0.771	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P409861

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304920	Fluoride	0.495	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P410384

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304631	Organic Carbon	1.33	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2305030
Field Sample ID: G2NE1164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	62.3	P	38 - 115
EPA 8270E	Decachlorobiphenyl	59.9	P	31 - 118
EPA 8270E	Decachlorobiphenyl	64.2	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	42.8	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	58.6	P	28 - 96.0
EPA 8270E	Tetrachloro-m-xylene	47.9	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	54.1	P	30 - 97.0
EPA 8276	PCNB	70.0	P	45 - 119

Lab Sample ID: 2305031
Field Sample ID: 20030518

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	61.4	P	38 - 115
EPA 8270E	Decachlorobiphenyl	65.6	P	31 - 118
EPA 8270E	Decachlorobiphenyl	67.4	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	44.8	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	75.1	P	28 - 96.0
EPA 8270E	Tetrachloro-m-xylene	50.5	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	60.7	P	30 - 97.0
EPA 8276	PCNB	62.2	P	45 - 119

Lab Sample ID: 2305032
Field Sample ID: 20030593

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	64.8	P	38 - 115
EPA 8270E	Decachlorobiphenyl	68.3	P	31 - 118
EPA 8270E	Decachlorobiphenyl	65.2	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	45.1	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	63.2	P	28 - 96.0
EPA 8270E	Tetrachloro-m-xylene	57.3	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	63.0	P	30 - 97.0
EPA 8276	PCNB	68.3	P	45 - 119

Lab Sample ID: 2305033
Field Sample ID: 20030594

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	62.6	P	38 - 115
EPA 8270E	Decachlorobiphenyl	62.3	P	31 - 118
EPA 8270E	Decachlorobiphenyl	53.2	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	47.1	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	58.8	P	28 - 96.0
EPA 8270E	Tetrachloro-m-xylene	52.0	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	57.3	P	30 - 97.0
EPA 8276	PCNB	62.9	P	45 - 119

Lab Sample ID: 2305034
Field Sample ID: 20030064

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
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Quality Assurance Report Surrogates

Lab Sample ID: 2305034

Field Sample ID: 20030064

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	72.7	P	38 - 115
EPA 8270E	Decachlorobiphenyl	69.8	P	31 - 118
EPA 8270E	Decachlorobiphenyl	68.1	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	50.1	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	67.5	P	28 - 96.0
EPA 8270E	Tetrachloro-m-xylene	54.1	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	63.4	P	30 - 97.0
EPA 8276	PCNB	65.2	P	45 - 119

Lab Sample ID: 2305035

Field Sample ID: 20030068

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	68.3	P	38 - 115
EPA 8270E	Decachlorobiphenyl	70.5	P	31 - 118
EPA 8270E	Decachlorobiphenyl	64.8	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	51.9	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	57.9	P	28 - 96.0
EPA 8270E	Tetrachloro-m-xylene	59.3	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	67.9	P	30 - 97.0
EPA 8276	PCNB	68.8	P	45 - 119

Lab Sample ID: 2305036

Field Sample ID: FB_02092022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	56.9	P	38 - 115
EPA 8270E	Decachlorobiphenyl	47.8	P	31 - 118
EPA 8270E	Decachlorobiphenyl	61.2	P	31 - 118
EPA 8270E	Tetrachloro-m-xylene	53.3	P	29 - 98.0
EPA 8270E	Tetrachloro-m-xylene	61.1	P	28 - 96.0
EPA 8270E	Tetrachloro-m-xylene	53.8	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	55.2	P	30 - 97.0
EPA 8276	PCNB	70.3	P	45 - 119

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A110338

Included Lab Sample IDs: 2305025

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A110339

Included Lab Sample IDs: 2305023

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	99.0	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A110350

Included Lab Sample IDs: 2305023

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A110411

Included Lab Sample IDs: 2305024

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

Reference Method: SM 2320 B-2011

Run ID: A110414

Included Lab Sample IDs: 2305023

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.5	100	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A110414

Included Lab Sample IDs: 2305023

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A110423

Included Lab Sample IDs: 2305023

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110425

Included Lab Sample IDs: 2305037, 2305038, 2305039

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110425

Included Lab Sample IDs: 2305037, 2305038, 2305039

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	95.9	96.6	P/P	90 - 110
Arsenic	99.2	99.0	P/P	90 - 110
Beryllium	96.1	96.1	P/P	90 - 110
Cadmium	101	101	P/P	90 - 110
Chromium	97.8	98.2	P/P	90 - 110
Cobalt	101	99.4	P/P	90 - 110
Copper	99.6	98.4	P/P	90 - 110
Lead	97.9	98.6	P/P	90 - 110
Manganese	98.7	98.3	P/P	90 - 110
Molybdenum	100	101	P/P	90 - 110
Nickel	100	100	P/P	90 - 110
Selenium	99.5	99.6	P/P	90 - 110
Silver	92.3	92.4	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110449

Included Lab Sample IDs: 2305030, 2305031, 2305032, 2305033, 2305034, 2305035, 2305036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	97.8		P	80 - 120
Alpha-BHC	95.9		P	80 - 120
Alpha-Chlordane	105		P	80 - 120
Beta-BHC	105		P	80 - 120
Beta-Cyfluthrin	90.7		P	80 - 120
Bifenthrin	98.2		P	80 - 120
Carbophenothion	99.8		P	80 - 120
Chlorothalonil	93.2		P	80 - 120
Cis-Nonachlor	99.3		P	80 - 120
Cypermethrin	98.9		P	80 - 120
Dacthal	103		P	80 - 120
DDD-p,p'	101		P	80 - 120
DDE-p,p'	104		P	80 - 120
DDT-p,p'	94.9		P	80 - 120
Delta-BHC	95.7		P	80 - 120
Deltamethrin	84.8		P	80 - 120
Dichlobenil	104		P	80 - 120
Dicofol	99.3		P	80 - 120
Dieldrin	104		P	80 - 120
Endosulfan I	101		P	80 - 120
Endosulfan II	95.0		P	80 - 120
Endosulfan Sulfate	101		P	80 - 120
Endrin Ketone	99.9		P	80 - 120
Esfenvalerate	91.1		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	105		P	80 - 120
Gamma-BHC	94.6		P	80 - 120
Gamma-Chlordane	104		P	80 - 120
Heptachlor	93.6		P	80 - 120
Heptachlor Epoxide	102		P	80 - 120
Hexachlorobenzene	100		P	80 - 120
Kepone	99.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A110449

Included Lab Sample IDs: 2305030, 2305031, 2305032, 2305033, 2305034, 2305035, 2305036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lambda-Cyhalothrin	90.9		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	105		P	80 - 120
Mirex	97.7		P	80 - 120
Oxychlordane	106		P	80 - 120
Permethrin	93.0		P	80 - 120
Phenothrin	99.2		P	80 - 120
Tau-Fluvalinate	85.7		P	80 - 120
Trans-Nonachlor	100		P	80 - 120
Triclosan Methyl	110		P	80 - 120
Trifluralin	95.0		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A110453

Included Lab Sample IDs: 2305024

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	98.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A110454

Included Lab Sample IDs: 2305024

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	98.5	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110457

Included Lab Sample IDs: 2305030, 2305031, 2305032, 2305033, 2305034, 2305035, 2305036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	106		P	80 - 120
PCB-1260	118		P	80 - 120

Reference Method: EPA 8276

Run ID: A110477

Included Lab Sample IDs: 2305030, 2305031, 2305032, 2305033, 2305034, 2305035, 2305036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	92.7		P	80 - 120
Chlordane	99.0		P	80 - 120
Toxaphene	101		P	80 - 120
Toxaphene	102		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A110559

Included Lab Sample IDs: 2305037, 2305038, 2305039

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A110559

Included Lab Sample IDs: 2305037, 2305038, 2305039

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Magnesium	101	105	P/P	90 - 110
Strontium	101	102	P/P	90 - 110
Tin	104	104	P/P	90 - 110
Vanadium	102	103	P/P	90 - 110
Zinc	103	103	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A110615

Included Lab Sample IDs: 2305030, 2305031, 2305032, 2305033, 2305034, 2305035, 2305036

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin	92.3		P	80 - 120
Endrin Aldehyde	112		P	80 - 120
Methoprene	96.2		P	80 - 120
Piperonyl Butoxide	101		P	80 - 120
Prallethrin	101		P	80 - 120
Tetramethrin	109		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A110618

Included Lab Sample IDs: 2305024

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	100	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A110636

Included Lab Sample IDs: 2305024

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.4	96.1	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
DEP SOP: NU-094-1	Color (true)	100					0.755	
EPA 180.1 Rev. 2.0	Turbidity	96.3					12.8	
EPA 200.7 Rev. 4.4	Calcium	106		110	109			4.87
	Iron	107		111	107	109		4.13
	Magnesium	106		108	109			4.40
	Strontium	105		107	101	105		4.68
	Tin	109		110	105	108		4.72
	Vanadium	99.4		103	98.0	99.5		5.25
	Zinc	105		106	100	104		5.10
EPA 200.8 Rev. 5.4	Aluminum	101		102	102	102		0.613
	Antimony	98.9		103	102	99.9		1.04
	Arsenic	102		103	103	99.7		0.462
	Beryllium	98.8		95.6	97.6	93.3		2.05
	Cadmium	100		102	104	102		2.02
	Chromium	96.5		100	101	99.0		0.394
	Cobalt	102		103	102	99.9		0.196
	Copper	98.4		98.7	99.3	97.8		0.663
	Lead	99.1		99.7	101	100		1.68
	Manganese	98.3		101	102	97.7		0.733
	Molybdenum	101		105	105	101		0.118
	Nickel	104		102	101	98.4		0.784
	Selenium	101		79.5	79.2	99.7		0.347
	Silver	99.9		102	102	98.6		0.265
EPA 300.0 Rev. 2.1	Chloride	102		102	101		1.53	
	Sulfate	100		99.5	99.2		0.221	
EPA 350.1 Rev. 2.0	Ammonia-N	103		96.8	99.4			2.10
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101		101	93.0			5.30
EPA 353.2 Rev. 2.0	NO2NO3-N	102		102	103			0.976
EPA 365.1 Rev. 2.0	Total-P	106		106	103			2.32
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.4		101	103			1.18
EPA 8270E	Aldrin	41.0		55.2	53.2			3.72
	Alpha-BHC	90.5		91.2	87.5			4.11
	Alpha-Chlordane	73.8		69.0	66.5			3.59
	Beta-BHC	112		86.2	79.7			7.80
	Beta-Cyfluthrin	63.3		117	125			6.84
	Bifenthrin	48.7		41.6	60.7			37.3
	Carbophenothion	57.4		82.6	80.2			3.00
	Chlorothalonil	80.4		148	126			16.1
	Cis-Nonachlor	69.1		68.7	69.9			1.78
	Cypermethrin	68.1		101	109			8.16
	Dacthal	86.2		85.0	82.0			3.53
	DDD-p,p'	70.4		65.4	69.5			6.07
	DDE-p,p'	74.7		73.8	69.8			5.56
	DDT-p,p'	82.6		79.0	75.4			4.42
	Delta-BHC	111		91.9	83.8			9.22
	Deltamethrin	70.5		121	119			1.71
	Dichlobenil	79.7		70.9	66.1			7.06
	Dicofol	67.0		76.2	76.1			0.127
	Dieldrin	60.2		66.5	71.9			7.83
	Endosulfan I	77.7		78.6	75.7			3.70
	Endosulfan II	66.7		78.2	82.7			5.65
	Endosulfan Sulfate	80.6		79.4	73.9			7.26
	Endrin	32.9	24.7	41.8		28.6		
	Endrin Aldehyde	50.5	41.2	52.9		20.3		

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	SMP
EPA 8270E	Endrin Ketone	141		122	99.7		19.9
	Esfenvalerate	62.3		103	107		3.77
	Ethalfuralin	62.5		70.9	69.5		2.02
	Fenpropathrin	50.6		80.6	92.0		13.2
	Gamma-BHC	75.7		81.9	82.1		0.278
	Gamma-Chlordane	68.7		69.6	64.8		7.14
	Heptachlor	56.6		72.5	70.7		2.52
	Heptachlor Epoxide	73.7		74.7	73.3		1.83
	Hexachlorobenzene	70.2		70.5	68.6		2.70
	Kepone	67.1		55.8	20.0		94.4
	Lambda-Cyhalothrin	61.0		120	137		13.3
	Methoprene	33.0	23.9	23.3		31.8	
	Methoxychlor	76.8		87.6	87.0		0.691
	MGK-264	60.1		74.0	72.8		1.71
	Mirex	45.4		56.9	57.9		1.88
	Oxychlordane	70.8		72.2	75.8		4.94
	PCB-1016	71.0		79.0	75.3		4.81
	PCB-1260	95.1		106	104		2.27
	Permethrin	70.6		102	114		11.1
	Phenothrin	37.3					38.0
	Piperonyl Butoxide	11.0	8.54	13.1		25.1	
	Prallethrin	51.5	55.1	51.1		6.58	
	Tau-Fluvalinate	42.0		74.5	87.0		15.5
	Tetramethrin	107	66.2	62.7		46.8	
	Trans-Nonachlor	69.7		72.3	68.1		5.85
	Triclosan Methyl	77.1		74.2	72.8		1.96
	Trifluralin	69.4		74.8	69.3		7.62
EPA 8276	Chlordane	94.7		84.1	85.5		1.71
	Toxaphene	76.6		77.8	79.6		2.25
	Total Alkalinity	96.4					
SM 2320 B-2011	TDS						2.25
SM 2540 C-2011							0.771
SM 4500 F-C-2011	Fluoride	99.7		98.7	98.1		0.495
SM 5310 B-2011	Organic Carbon	95.0		97.7	95.4		1.33

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2305023
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2305023
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2305037, 2305038, 2305039
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2305037, 2305038, 2305039
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2305023
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2305023
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2305024
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2305024
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2305024
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2305024
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2305025
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2305030, 2305031, 2305032, 2305033, 2305034, 2305035, 2305036

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	PCBs in water matrices by GC/MS/MS	2305030, 2305031, 2305032, 2305033, 2305034, 2305035, 2305036
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2305030, 2305031, 2305032, 2305033, 2305034, 2305035, 2305036
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2305023
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2305023
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2305023
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2305023
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2305024

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	02/10/2022			02/10/2022 17:21	Anna M. Plaviak	2305023
EPA 180.1 Rev. 2.0	02/10/2022			02/10/2022 15:32	Khloe J Berg	2305023
EPA 200.7 Rev. 4.4	02/10/2022	02/14/2022 10:40	Megan Whitefoot	02/22/2022 14:16	Josef B Mick	2305037
	02/10/2022	02/14/2022 10:40	Megan Whitefoot	02/22/2022 14:24	Josef B Mick	2305037
	02/10/2022	02/14/2022 10:40	Megan Whitefoot	02/22/2022 14:32	Josef B Mick	2305038
	02/10/2022	02/14/2022 10:40	Megan Whitefoot	02/22/2022 14:48	Josef B Mick	2305039
EPA 200.8 Rev. 5.4	02/10/2022	02/14/2022 10:40	Megan Whitefoot	02/15/2022 16:29	Alexander Thompson	2305037
	02/10/2022	02/14/2022 10:40	Megan Whitefoot	02/15/2022 16:39	Alexander Thompson	2305038
	02/10/2022	02/14/2022 10:40	Megan Whitefoot	02/15/2022 16:48	Alexander Thompson	2305039
EPA 300.0 Rev. 2.1	02/10/2022			02/15/2022 21:45	James L Waggerby	2305023
EPA 350.1 Rev. 2.0	02/10/2022			02/16/2022 15:37	Ping Hua	2305024
EPA 351.2 Rev. 2.0	02/10/2022	02/15/2022 13:57	Samantha L Bates	02/16/2022 16:20	Alexandra J Mattheus	2305024
EPA 353.2 Rev. 2.0	02/10/2022			02/15/2022 11:39	Beverly Y. Sanders	2305024
EPA 365.1 Rev. 2.0	02/10/2022	02/22/2022 16:05	Simonne.V. Calhoun	02/23/2022 13:45	Sarah A Nixon	2305024
EPA 365.1 Rev. 2.0 dissolved	02/10/2022			02/10/2022 14:57	James L Waggerby	2305025
EPA 8270E	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/16/2022 19:02	Vandana T. Nagar	2305030
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/16/2022 19:33	Vandana T. Nagar	2305031
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/16/2022 20:05	Vandana T. Nagar	2305032
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/16/2022 20:36	Vandana T. Nagar	2305033
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/16/2022 21:07	Vandana T. Nagar	2305034
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/16/2022 21:38	Vandana T. Nagar	2305035
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/16/2022 22:10	Vandana T. Nagar	2305036
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 00:57	Julie Wi	2305030
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 01:27	Julie Wi	2305031
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 01:57	Julie Wi	2305032
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 02:27	Julie Wi	2305033
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 02:57	Julie Wi	2305034
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 03:27	Julie Wi	2305035
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 03:57	Julie Wi	2305036
	02/10/2022	02/23/2022 08:30	Rasheda Ghaffari	02/24/2022 21:27	Vandana T. Nagar	2305030
	02/10/2022	02/23/2022 08:30	Rasheda Ghaffari	02/24/2022 21:56	Vandana T. Nagar	2305031
	02/10/2022	02/23/2022 08:30	Rasheda Ghaffari	02/24/2022 22:25	Vandana T. Nagar	2305032
	02/10/2022	02/23/2022 08:30	Rasheda Ghaffari	02/24/2022 22:54	Vandana T. Nagar	2305033
	02/10/2022	02/23/2022 08:30	Rasheda Ghaffari	02/24/2022 23:24	Vandana T. Nagar	2305034
	02/10/2022	02/23/2022 08:30	Rasheda Ghaffari	02/24/2022 23:53	Vandana T. Nagar	2305035
	02/10/2022	02/23/2022 08:30	Rasheda Ghaffari	02/25/2022 00:22	Vandana T. Nagar	2305036
EPA 8276	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 06:50	Arthur Maknenko	2305030
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 07:45	Arthur Maknenko	2305031
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 09:36	Arthur Maknenko	2305032
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 10:31	Arthur Maknenko	2305033

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8276	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 11:26	Arthur Maknenko	2305034
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 12:22	Arthur Maknenko	2305035
	02/10/2022	02/14/2022 08:00	Rasheda Ghaffari	02/17/2022 13:17	Arthur Maknenko	2305036
SM 2320 B-2011	02/10/2022			02/15/2022 06:10	Dale L. Simmons	2305023
SM 2540 C-2011	02/10/2022			02/11/2022 15:30	Simonne.V. Calhoun	2305023
SM 2540 D-2011	02/10/2022			02/11/2022 15:30	Simonne.V. Calhoun	2305023
SM 4500 F-C-2011	02/10/2022			02/15/2022 06:10	Dale L. Simmons	2305023
SM 5310 B-2011	02/10/2022			02/25/2022 06:19	Touraj Touran	2305024