

Chemical Analysis Report

NE-DIST-2023-06-13-01

Florida DEP Laboratory
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DOH Accreditation E31780

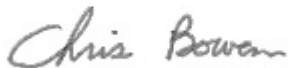
Event Description: **LSJR East**
Request ID: **RQ-2023-06-05-24**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 29-JUN-2023 11:43



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: GREENFIELD CR AT HODGES RD

Collection Date/Time: 06/12/2023 09:20

Field ID: G2NE1145

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2416839	DEP SOP: NU-094-1	Color (true)	43		PCU	P431196	
	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P431192	
	EPA 300.0 Rev. 2.1	Chloride	41		mg Cl/L	P431374	
		Sulfate	48		mg SO4/L	P431534	
	SM 2320 B-2011	Total Alkalinity	91		mg CaCO3/L	P431493	
	SM 2540 C-2015	TDS	271		mg/L	P431653	
	SM 2540 D-2015	TSS	2	U	mg/L	P431725	
	SM 4500-F- C-2011	Fluoride	0.079	I	mg F/L	P431495	
2416840	EPA 350.1 Rev. 2.0	Ammonia-N	0.15		mg N/L	P431526	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.76		mg N/L	P431401	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.27		mg N/L	P431390	
	EPA 365.1 Rev. 2.0	Total-P	0.077		mg P/L	P431220	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P431447	

Ref. Method and Comment:

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

Sample Location: GREENFIELD CREEK AT QUEENS HARBOUR BLVD **Collection Date/Time: 06/12/2023 09:40**

Field ID: 20030809

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2416869	EPA 200.7 Rev. 4.4	Calcium	218		mg/L	P431440	
		Iron	320	I	ug/L	P431440	
		Magnesium	610		mg/L	P431440	
		Potassium	179		mg/L	P431440	
		Sodium	4.72E+03		mg/L	P431440	
		Strontium	3.85E+03		ug/L	P431440	
		Tin	150	U	ug/L	P431440	
		Titanium	2.8	I	ug/L	P431440	
		Vanadium	6.0	U	ug/L	P431440	
		Zinc	15	U	ug/L	P431440	
	EPA 200.8 Rev. 5.4	Aluminum	179		ug/L	P431440	
		Antimony	0.20	U	ug/L	P431440	
		Arsenic	1.90		ug/L	P431440	
		Barium	35.7		ug/L	P431440	
		Beryllium	0.040	U	ug/L	P431440	
		Boron	2.13E+03		ug/L	P431440	
		Cadmium	0.080	U	ug/L	P431440	
		Chromium	4.0	U	ug/L	P431440	
		Cobalt	0.20	I	ug/L	P431440	
		Copper	1.6	U	ug/L	P431440	
		Lead	0.80	U	ug/L	P431440	
		Manganese	35.0		ug/L	P431440	
		Molybdenum	4.6		ug/L	P431440	
		Nickel	2.0	U	ug/L	P431440	
		Selenium	0.80	U	ug/L	P431440	
		Silver	0.040	U	ug/L	P431440	
		Thallium	0.40	U	ug/L	P431440	
	SM 2340 B-2011	Hardness	3.06E+03		mg/L	P431440	

Ref. Method and Comment:

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

Sample Location: HOGPEN CR AT SAN PABLO ROAD

Collection Date/Time: 06/12/2023 10:05

Field ID: 20030696

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2416837	DEP SOP: NU-094-1	Color (true)	45	A	PCU	P431196	
	EPA 180.1 Rev. 2.0	Turbidity	5.5		NTU	P431192	
	EPA 300.0 Rev. 2.1	Chloride	5.2E+03		mg Cl/L	P431374	
		Sulfate	760		mg SO4/L	P431534	
	SM 2320 B-2011	Total Alkalinity	95		mg CaCO3/L	P431493	
	SM 2540 C-2015	TDS	7.88E+03		mg/L	P431653	
	SM 2540 D-2015	TSS	7	I	mg/L	P431726	
	SM 4500-F- C-2011	Fluoride	0.43		mg F/L	P431809	RPD
2416838	EPA 350.1 Rev. 2.0	Ammonia-N	0.10		mg N/L	P431343	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.83		mg N/L	P431403	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.24		mg N/L	P431353	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P431219	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P431448	

Ref. Method and Comment:

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

Sample Location: OPEN CREEK AT SAN PABLO ROAD

Collection Date/Time: 06/12/2023 10:25

Field ID: 20030695

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2416867	EPA 8270E	Aldrin	0.66	U	ng/L	P431247	
		Alpha-BHC	0.10	U	ng/L	P431247	
		Alpha-Chlordane	0.20	U	ng/L	P431247	
		PCB-1016	2.0	U	ng/L	P431247	
		Beta-BHC	0.10	U	ng/L	P431247	
		PCB-1221	2.0	U	ng/L	P431247	
		Beta-Cyfluthrin	1.3	U	ng/L	P431247	
		PCB-1232	2.0	U	ng/L	P431247	
		Bifenthrin	0.51	U	ng/L	P431247	
		PCB-1242	2.0	U	ng/L	P431247	
		PCB-1248	2.0	U	ng/L	P431247	
		Chlorothalonil	3.7	U	ng/L	P431247	
		PCB-1254	2.0	U	ng/L	P431247	
		Cis-Nonachlor	0.20	U	ng/L	P431247	
		PCB-1260	2.0	U	ng/L	P431247	
		Cypermethrin	1.5	U	ng/L	P431247	
		Dacthal	0.15	UJ	ng/L	P431247	LCS
		DDD-p,p'	0.25	U	ng/L	P431247	
		DDE-p,p'	0.20	U	ng/L	P431247	
		DDT-p,p'	0.25	U	ng/L	P431247	
		Delta-BHC	0.41	U	ng/L	P431247	
		Deltamethrin	1.3	U	ng/L	P431247	
		Dichlobenil	0.25	U	ng/L	P431247	
		Dicofol	1.3	U	ng/L	P431247	
		Dieldrin	0.41	U	ng/L	P431247	
		Endosulfan I	0.41	U	ng/L	P431247	
		Endosulfan II	0.41	U	ng/L	P431247	
		Endosulfan Sulfate	0.31	U	ng/L	P431247	
		Endrin	0.41	U	ng/L	P431247	
		Endrin Aldehyde	0.76	U	ng/L	P431247	
		Endrin Ketone	0.41	U	ng/L	P431247	
		Esfenvalerate	0.76	U	ng/L	P431247	
		Ethalfuralin	0.15	U	ng/L	P431247	
		Fenpropathrin	0.25	U	ng/L	P431247	
		Gamma-BHC	0.13	U	ng/L	P431247	RPD
		Gamma-Chlordane	0.20	U	ng/L	P431247	
		Heptachlor	0.20	U	ng/L	P431247	
		Heptachlor Epoxide	0.25	U	ng/L	P431247	
		Hexachlorobenzene**	1.0	U	ng/L	P431247	
		Kepone	5.1	U	ng/L	P431247	
		Lambda-Cyhalothrin	0.76	U	ng/L	P431247	
		Methoprene	0.76	U	ng/L	P431247	
		Methoxychlor	0.31	U	ng/L	P431247	
		MGK-264	0.20	U	ng/L	P431247	

Field ID: 20030695

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2416867	EPA 8270E	Mirex	0.36	U	ng/L	P431247	
		Oxychlordane	0.31	U	ng/L	P431247	
		Permethrin	1.6	U	ng/L	P431247	
		Phenothrin	0.92	U	ng/L	P431247	
		Piperonyl Butoxide	0.15	U	ng/L	P431247	
		Prallethrin	2.0	U	ng/L	P431247	
		Tau-Fluvalinate	0.25	U	ng/L	P431247	
		Tetramethrin	0.76	U	ng/L	P431247	
		Trans-Nonachlor	0.20	U	ng/L	P431247	RPD
		Triclosan Methyl	0.15	U	ng/L	P431247	
		Trifluralin	0.20	U	ng/L	P431247	
	EPA 8276	Chlordane	2.0	UJ	ng/L	P431247	LCS, MS
		Toxaphene	15	U	ng/L	P431247	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: FB

Collection Date/Time: 06/12/2023 10:30

Field ID: FB_06122023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2416868	EPA 8270E	Aldrin	0.67	U	ng/L	P431247	
		Alpha-BHC	0.10	U	ng/L	P431247	
		Alpha-Chlordane	0.20	U	ng/L	P431247	
		PCB-1016	2.0	U	ng/L	P431247	
		Beta-BHC	0.10	U	ng/L	P431247	
		PCB-1221	2.0	U	ng/L	P431247	
		Beta-Cyfluthrin	1.3	U	ng/L	P431247	
		PCB-1232	2.0	U	ng/L	P431247	
		Bifenthrin	0.51	U	ng/L	P431247	
		PCB-1242	2.0	U	ng/L	P431247	
		PCB-1248	2.0	U	ng/L	P431247	
		Chlorothalonil	3.7	U	ng/L	P431247	
		PCB-1254	2.0	U	ng/L	P431247	
		Cis-Nonachlor	0.20	U	ng/L	P431247	
		PCB-1260	2.0	U	ng/L	P431247	
		Cypermethrin	1.5	U	ng/L	P431247	
		Dacthal	0.15	UJ	ng/L	P431247	LCS
		DDD-p,p'	0.26	U	ng/L	P431247	
		DDE-p,p'	0.20	U	ng/L	P431247	
		DDT-p,p'	0.26	U	ng/L	P431247	
		Delta-BHC	0.41	U	ng/L	P431247	
		Deltamethrin	1.3	U	ng/L	P431247	
		Dichlobenil	0.26	U	ng/L	P431247	
		Dicofol	1.3	U	ng/L	P431247	
		Dieldrin	0.41	U	ng/L	P431247	
		Endosulfan I	0.41	U	ng/L	P431247	
		Endosulfan II	0.41	U	ng/L	P431247	
		Endosulfan Sulfate	0.31	U	ng/L	P431247	
		Endrin	0.41	U	ng/L	P431247	
		Endrin Aldehyde	0.77	U	ng/L	P431247	
		Endrin Ketone	0.41	U	ng/L	P431247	
		Esfenvalerate	0.77	U	ng/L	P431247	
		Ethalfuralin	0.15	U	ng/L	P431247	
		Fenpropathrin	0.26	U	ng/L	P431247	
		Gamma-BHC	0.13	U	ng/L	P431247	RPD
		Gamma-Chlordane	0.20	U	ng/L	P431247	
		Heptachlor	0.20	U	ng/L	P431247	
		Heptachlor Epoxide	0.26	U	ng/L	P431247	
		Hexachlorobenzene**	1.0	U	ng/L	P431247	
		Kepone	5.1	U	ng/L	P431247	
		Lambda-Cyhalothrin	0.77	U	ng/L	P431247	
		Methoprene	0.77	U	ng/L	P431247	
		Methoxychlor	0.31	U	ng/L	P431247	
		MGK-264	0.21	I	ng/L	P431247	

Field ID: FB_06122023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2416868	EPA 8270E	Mirex	0.36	U	ng/L	P431247	
		Oxychlordane	0.31	U	ng/L	P431247	
		Permethrin	1.6	U	ng/L	P431247	
		Phenothrin	0.92	U	ng/L	P431247	
		Piperonyl Butoxide	0.15	U	ng/L	P431247	
		Prallethrin	2.0	U	ng/L	P431247	
		Tau-Fluvalinate	0.26	U	ng/L	P431247	
		Tetramethrin	0.77	U	ng/L	P431247	
		Trans-Nonachlor	0.20	U	ng/L	P431247	RPD
		Triclosan Methyl	0.15	U	ng/L	P431247	
		Trifluralin	0.20	U	ng/L	P431247	
	EPA 8276	Chlordane	2.0	UJ	ng/L	P431247	LCS, MS
		Toxaphene	15	U	ng/L	P431247	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P431196

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431192

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431440

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: P431440

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: P431374

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431534

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431343

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431526

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431401

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431403

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431353

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431390

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431219

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431220

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431247

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P431247

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P431247

Component	Result	Code	Units
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: P431247

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

Reference Method: SM 2320 B-2011
Batch ID: P431493

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

Reference Method: SM 2540 C-2015
Batch ID: P431653

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P431725

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P431726

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P431495

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P431809

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P431447

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Reference Method: SM 5310 B-2011
Batch ID: P431448

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: P431196

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.7		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431192

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	98.7		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431440

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	102		P	85 - 115
Iron	105		P	85 - 115
Magnesium	102		P	85 - 115
Potassium	101		P	85 - 115
Sodium	96.7		P	85 - 115
Strontium	101		P	85 - 115
Tin	103		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	100		P	85 - 115
Zinc	104		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431440

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	102		P	85 - 115
Barium	102		P	85 - 115
Beryllium	95.6		P	85 - 115
Boron	105		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	101		P	85 - 115
Cobalt	99.7		P	85 - 115
Copper	99.2		P	85 - 115
Lead	94.6		P	85 - 115
Manganese	99.9		P	85 - 115
Molybdenum	100		P	85 - 115
Nickel	100		P	85 - 115
Selenium	100		P	85 - 115
Silver	105		P	85 - 115
Thallium	98.8		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431374

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.5		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431534

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431343

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431526

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431401

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431403

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431353

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431390

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431219

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	94.6		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431220

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.4		P	90 - 110

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P431247

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	44.0		P	10 - 92.0
Alpha-BHC	75.4		P	75 - 107
Alpha-Chlordane	60.4		P	50 - 108
Beta-BHC	82.7		P	36 - 138
Beta-Cyfluthrin	66.9		P	20 - 161
Bifenthrin	62.4		P	10 - 119
Chlorothalonil	91.0		P	26 - 186
Cis-Nonachlor	50.6		P	42 - 119
Cypermethrin	66.2		P	22 - 150
Dacthal	70.3		F	72 - 119
DDD-p,p'	62.5		P	45 - 107
DDE-p,p'	60.8		P	48 - 106
DDT-p,p'	61.4		P	48 - 110
Delta-BHC	96.8		P	54 - 140
Deltamethrin	82.8		P	22 - 189
Dichlobenil	73.5		P	36 - 117
Dicofol	62.5		P	46 - 155
Dieldrin	57.1		P	54 - 110
Endosulfan I	62.8		P	59 - 105
Endosulfan II	55.3		P	51 - 118
Endosulfan Sulfate	57.7		P	57 - 121
Endrin	57.6		P	10 - 120
Endrin Aldehyde	59.3		P	34 - 118
Endrin Ketone	77.3		P	69 - 177
Esfenvalerate	91.8		P	23 - 168
Ethalfuralin	59.6		P	49 - 99.0
Fenpropathrin	61.3		P	34 - 117
Gamma-BHC	80.4		P	72 - 117
Gamma-Chlordane	63.0		P	43 - 106
Heptachlor	53.4		P	41 - 98.0
Heptachlor Epoxide	77.2		P	57 - 106
Hexachlorobenzene	51.9		P	36 - 99.0
Kepone	53.5		P	16 - 215
Lambda-Cyhalothrin	79.9		P	21 - 177
Methoprene	42.6		P	10 - 119
Methoxychlor	69.5		P	60 - 112
MGK-264	49.2		P	26 - 122
Mirex	59.2		P	10 - 169
Oxychlordane	53.2		P	43 - 105
PCB-1016	71.3		P	48 - 112
PCB-1260	65.5		P	44 - 118
Permethrin	60.2		P	24 - 148
Phenothrin	79.0		P	10 - 106
Piperonyl Butoxide	75.7		P	10 - 139
Prallethrin	52.9		P	17 - 109
Tau-Fluvalinate	76.3		P	13 - 131
Tetramethrin	67.7		P	10 - 132
Trans-Nonachlor	56.2		P	44 - 106
Triclosan Methyl	69.8		P	59 - 109
Trifluralin	66.4		P	44 - 101

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P431247

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	59.2		F	61 - 116
Toxaphene	64.1		P	48 - 124

Reference Method: SM 2320 B-2011
Batch ID: P431493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	96.6		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P431653

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	95.6		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P431725

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	87.0		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P431726

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	87.9		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P431495

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.4		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P431809

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

Reference Method: SM 5310 B-2011
Batch ID: P431447

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.7		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P431448

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P431440

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417073	Calcium	105		P	70 - 130
2417073	Iron	106	106	P/P	70 - 130
2417073	Strontium	103	104	P/P	70 - 130
2417073	Tin	94.9	96.7	P/P	70 - 130
2417073	Titanium	103	106	P/P	70 - 130
2417073	Vanadium	101	103	P/P	70 - 130
2417073	Zinc	103	103	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P431440

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417073	Aluminum	96.7	97.3	P/P	70 - 130
2417073	Antimony	101	102	P/P	70 - 130
2417073	Arsenic	104	105	P/P	70 - 130
2417073	Barium	101	98.7	P/P	70 - 130
2417073	Beryllium	102	104	P/P	70 - 130
2417073	Boron	103	104	P/P	70 - 130
2417073	Cadmium	99.2	100	P/P	70 - 130
2417073	Chromium	98.0	95.9	P/P	70 - 130
2417073	Cobalt	96.8	97.4	P/P	70 - 130
2417073	Copper	98.9	95.5	P/P	70 - 130
2417073	Lead	94.4	94.4	P/P	70 - 130
2417073	Manganese	94.4	92.8	P/P	70 - 130
2417073	Molybdenum	102	103	P/P	70 - 130
2417073	Nickel	96.3	95.4	P/P	70 - 130
2417073	Selenium	100	97.8	P/P	70 - 130
2417073	Silver	96.0	98.4	P/P	70 - 130
2417073	Thallium	94.2	97.2	P/P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P431374

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416405	Chloride	97.0		P	90 - 110
2416793	Chloride	94.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P431534

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416405	Sulfate	98.3		P	90 - 110
2416793	Sulfate	96.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P431343

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416683	Ammonia-N	100	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431526

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416624	Ammonia-N	99.6	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431401

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416840	Kjeldahl Nitrogen	98.9	109	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431403

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417182	Kjeldahl Nitrogen	106	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431353

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416072	NO2NO3-N	107	107	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431390

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416681	NO2NO3-N	96.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431219

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416072	Total-P	90.2	90.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P431220

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416569	Total-P	95.5	97.7	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P431247

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416653	PCB-1016	92.2	104	P/P	46 - 111
2416653	PCB-1260	83.8	106	P/P	45 - 114
2417276	Aldrin	53.3	51.3	P/P	20 - 82.0
2417276	Alpha-BHC	97.0	87.4	P/P	71 - 109
2417276	Alpha-Chlordane	75.0	53.6	P/P	42 - 106
2417276	Beta-BHC	103	92.2	P/P	69 - 180
2417276	Beta-Cyfluthrin	79.7	66.2	P/P	18 - 175
2417276	Bifenthrin	108	80.4	P/P	21 - 128
2417276	Chlorothalonil	193	132	P/P	10 - 300
2417276	Cis-Nonachlor	72.1	66.3	P/P	34 - 106

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P431247

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2417276	Cypermethrin	83.1	66.0	P/P	22 - 158
2417276	Dacthal	116	90.7	P/P	54 - 116
2417276	DDD-p,p'	106	85.6	P/P	34 - 107
2417276	DDE-p,p'	102	75.1	P/P	33 - 110
2417276	DDT-p,p'	70.4	60.0	P/P	50 - 122
2417276	Delta-BHC	143	105	P/P	77 - 193
2417276	Deltamethrin	110	103	P/P	10 - 195
2417276	Dichlobenil	39.1	45.6	P/P	25 - 113
2417276	Dicofol	84.2	73.9	P/P	38 - 247
2417276	Dieldrin	75.8	67.2	P/P	45 - 118
2417276	Endosulfan I	80.5	72.8	P/P	51 - 106
2417276	Endosulfan II	61.1	59.6	P/P	37 - 122
2417276	Endosulfan Sulfate	77.2	59.9	P/P	43 - 132
2417276	Endrin	66.9	64.9	P/P	29 - 101
2417276	Endrin Aldehyde	87.5	64.6	P/P	19 - 110
2417276	Endrin Ketone	77.9	68.5	P/P	60 - 140
2417276	Esfenvalerate	118	128	P/P	26 - 199
2417276	Ethalfuralin	62.8	62.9	P/P	45 - 99.0
2417276	Fenpropathrin	74.0	65.4	P/P	35 - 120
2417276	Gamma-BHC	115	91.4	P/P	63 - 128
2417276	Gamma-Chlordane	64.3	46.1	P/P	40 - 104
2417276	Heptachlor	56.9	56.4	P/P	36 - 97.0
2417276	Heptachlor Epoxide	76.9	67.8	P/P	49 - 184
2417276	Hexachlorobenzene	81.0	57.8	P/P	39 - 96.0
2417276	Kepone	93.4	54.8	P/P	10 - 217
2417276	Lambda-Cyhalothrin	190	155	P/P	21 - 193
2417276	Methoprene	47.4	41.9	P/P	20 - 106
2417276	Methoxychlor	83.0	75.2	P/P	53 - 118
2417276	MGK-264	57.9	55.7	P/P	40 - 118
2417276	Mirex	86.7	68.8	P/P	26 - 92.0
2417276	Oxychlordane	47.8	47.4	P/P	44 - 99.0
2417276	Permethrin	75.7	79.4	P/P	33 - 182
2417276	Phenothrin	115	107	P/P	10 - 129
2417276	Piperonyl Butoxide	113	105	P/P	10 - 211
2417276	Prallethrin	45.2	44.4	P/P	24 - 113
2417276	Tau-Fluvalinate	148	138	P/P	14 - 149
2417276	Tetramethrin	83.3	72.4	P/P	17 - 151
2417276	Trans-Nonachlor	71.5	45.6	P/P	42 - 102
2417276	Triclosan Methyl	81.1	69.3	P/P	48 - 108
2417276	Trifluralin	54.2	56.2	P/P	47 - 96.0

Reference Method: EPA 8276
Batch ID: P431247

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416653	Chlordane	47.4	42.8	F/F	53 - 126
2416653	Toxaphene	58.9	59.9	P/P	56 - 211

Reference Method: SM 4500-F- C-2011
Batch ID: P431495

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

Matrix Spike Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P431495

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416966	Fluoride	99.6	101	P/P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P431809

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2415436	Fluoride	100	103	P/P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P431447

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416950	Organic Carbon	96.6	97.7	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P431448

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2416838	Organic Carbon	92.2	92.8	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P431196

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416837	Color (true)	4.22	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P431192

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416695	Turbidity	5.84	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P431440

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417073	Calcium	0.420	Spike	P	0 - 20
2417073	Iron	0.0474	Spike	P	0 - 20
2417073	Magnesium	0.629	Spike	P	0 - 20
2417073	Potassium	0.539	Spike	P	0 - 20
2417073	Sodium	13.2	Spike	P	0 - 20
2417073	Strontium	0.969	Spike	P	0 - 20
2417073	Tin	1.91	Spike	P	0 - 20
2417073	Titanium	2.93	Spike	P	0 - 20
2417073	Vanadium	1.68	Spike	P	0 - 20
2417073	Zinc	0.481	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P431440

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417073	Aluminum	0.667	Spike	P	0 - 20
2417073	Antimony	0.895	Spike	P	0 - 20
2417073	Arsenic	1.14	Spike	P	0 - 20
2417073	Barium	1.90	Spike	P	0 - 20
2417073	Beryllium	2.41	Spike	P	0 - 20
2417073	Boron	0.526	Spike	P	0 - 20
2417073	Cadmium	1.17	Spike	P	0 - 20
2417073	Chromium	2.18	Spike	P	0 - 20
2417073	Cobalt	0.582	Spike	P	0 - 20
2417073	Copper	3.50	Spike	P	0 - 20
2417073	Lead	0.0583	Spike	P	0 - 20
2417073	Manganese	1.60	Spike	P	0 - 20
2417073	Molybdenum	1.28	Spike	P	0 - 20
2417073	Nickel	1.01	Spike	P	0 - 20
2417073	Selenium	2.20	Spike	P	0 - 20
2417073	Silver	2.46	Spike	P	0 - 20
2417073	Thallium	3.13	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431374

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416405	Chloride	1.60	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P431534

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416405	Sulfate	0.724	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431343

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416683	Ammonia-N	1.07	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P431526

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416624	Ammonia-N	2.29	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431401

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416840	Kjeldahl Nitrogen	6.70	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P431403

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417182	Kjeldahl Nitrogen	0.779	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431353

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416072	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P431390

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416681	NO2NO3-N	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P431219

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416072	Total-P	0.663	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P431220

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416569	Total-P	2.11	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P431247

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416653	PCB-1016	11.7	Spike	P	0 - 32
2416653	PCB-1260	23.7	Spike	P	0 - 31
2417276	Aldrin	3.82	Spike	P	0 - 41
2417276	Alpha-BHC	10.4	Spike	P	0 - 25
2417276	Alpha-Chlordane	30.2	Spike	P	0 - 33
2417276	Beta-BHC	11.4	Spike	P	0 - 36
2417276	Beta-Cyfluthrin	18.6	Spike	P	0 - 42
2417276	Bifenthrin	29.2	Spike	P	0 - 53
2417276	Chlorothalonil	37.7	Spike	P	0 - 71
2417276	Cis-Nonachlor	8.40	Spike	P	0 - 29
2417276	Cypermethrin	23.0	Spike	P	0 - 40
2417276	Dacthal	24.3	Spike	P	0 - 26
2417276	DDD-p,p'	20.9	Spike	P	0 - 39
2417276	DDE-p,p'	30.3	Spike	P	0 - 33
2417276	DDT-p,p'	16.0	Spike	P	0 - 40
2417276	Delta-BHC	31.3	Spike	P	0 - 37
2417276	Deltamethrin	6.79	Spike	P	0 - 100
2417276	Dichlobenil	15.2	Spike	P	0 - 40
2417276	Dicofol	13.1	Spike	P	0 - 31
2417276	Dieldrin	12.1	Spike	P	0 - 27
2417276	Endosulfan I	10.1	Spike	P	0 - 23
2417276	Endosulfan II	2.46	Spike	P	0 - 28
2417276	Endosulfan Sulfate	25.2	Spike	P	0 - 38
2417276	Endrin	3.06	Spike	P	0 - 63
2417276	Endrin Aldehyde	30.1	Spike	P	0 - 60
2417276	Endrin Ketone	12.9	Spike	P	0 - 37
2417276	Esfenvalerate	8.39	Spike	P	0 - 52
2417276	Ethalfuralin	0.0547	Spike	P	0 - 23
2417276	Fenpropathrin	12.3	Spike	P	0 - 32
2417276	Gamma-BHC	23.0	Spike	F	0 - 17
2417276	Gamma-Chlordane	29.6	Spike	P	0 - 40
2417276	Heptachlor	0.808	Spike	P	0 - 29
2417276	Heptachlor Epoxide	12.6	Spike	P	0 - 25
2417276	Hexachlorobenzene	33.6	Spike	P	0 - 36
2417276	Kepone	52.1	Spike	P	0 - 93
2417276	Lambda-Cyhalothrin	20.4	Spike	P	0 - 55
2417276	Methoprene	12.4	Spike	P	0 - 53

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P431247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2417276	Methoxychlor	9.94	Spike	P	0 - 29
2417276	MGK-264	3.83	Spike	P	0 - 35
2417276	Mirex	23.0	Spike	P	0 - 46
2417276	Oxychlordane	0.863	Spike	P	0 - 29
2417276	Permethrin	4.69	Spike	P	0 - 44
2417276	Phenothrin	6.97	Spike	P	0 - 56
2417276	Piperonyl Butoxide	7.22	Spike	P	0 - 100
2417276	Prallethrin	1.67	Spike	P	0 - 42
2417276	Tau-Fluvalinate	6.75	Spike	P	0 - 54
2417276	Tetramethrin	13.9	Spike	P	0 - 51
2417276	Trans-Nonachlor	44.3	Spike	F	0 - 37
2417276	Triclosan Methyl	15.7	Spike	P	0 - 31
2417276	Trifluralin	3.71	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P431247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416653	Chlordane	10.3	Spike	P	0 - 25
2416653	Toxaphene	1.57	Spike	P	0 - 26

Reference Method: SM 2320 B-2011
Batch ID: P431493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416966	Total Alkalinity	0.286	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P431653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416695	TDS	2.92	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P431495

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416966	Fluoride	0.993	Spike	P	0 - 1.9

Reference Method: SM 4500-F- C-2011
Batch ID: P431809

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2415436	Fluoride	1.91	Spike	F	0 - 1.9

Quality Assurance Report Precision

Reference Method: SM 5310 B-2011
Batch ID: P431447

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416950	Organic Carbon	1.13	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P431448

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2416838	Organic Carbon	0.545	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2416867
Field Sample ID: 20030695

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	90.2	P	29 - 130
EPA 8270E	Decachlorobiphenyl	74.9	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	47.5	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	55.2	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	42.1	P	30 - 101
EPA 8276	PCNB	95.4	P	48 - 121

Lab Sample ID: 2416868
Field Sample ID: FB_06122023

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	112	P	29 - 130
EPA 8270E	Decachlorobiphenyl	105	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	96.5	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	86.6	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	51.7	P	30 - 101
EPA 8276	PCNB	106	P	48 - 121

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A119762

Included Lab Sample IDs: 2416837, 2416839

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

Reference Method: DEP SOP: NU-094-1

Run ID: A119764

Included Lab Sample IDs: 2416837, 2416839

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.2	99.0	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A119778

Included Lab Sample IDs: 2416837, 2416839

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.6	96.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A119830

Included Lab Sample IDs: 2416838, 2416840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	101	P/P	90 - 110
Total-P	108	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A119832

Included Lab Sample IDs: 2416838

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.2	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A119835

Included Lab Sample IDs: 2416838

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	105	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A119852

Included Lab Sample IDs: 2416840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	105	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119879

Included Lab Sample IDs: 2416838

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.1	96.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A119883

Included Lab Sample IDs: 2416838, 2416840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.0	98.2	P/P	90 - 110
Organic Carbon	98.8	96.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A119886

Included Lab Sample IDs: 2416840

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

Reference Method: SM 2320 B-2011

Run ID: A119906

Included Lab Sample IDs: 2416837, 2416839

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.6	97.3	P/P	90 - 110
Total Alkalinity	97.3	95.7	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A119906

Included Lab Sample IDs: 2416839

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A119925

Included Lab Sample IDs: 2416840

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.2	99.3	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A119927

Included Lab Sample IDs: 2416837, 2416839

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A119931

Included Lab Sample IDs: 2416869

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.4	99.3	P/P	90 - 110
Antimony	100	100	P/P	90 - 110
Arsenic	101	101	P/P	90 - 110
Barium	98.2	99.4	P/P	90 - 110
Beryllium	101	102	P/P	90 - 110
Boron	103	99.4	P/P	90 - 110
Cadmium	101	99.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A119931

Included Lab Sample IDs: 2416869

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	102	102	P/P	90 - 110
Cobalt	100	101	P/P	90 - 110
Copper	99.0	98.6	P/P	90 - 110
Lead	93.7	93.5	P/P	90 - 110
Manganese	101	103	P/P	90 - 110
Molybdenum	98.6	98.8	P/P	90 - 110
Nickel	100	100	P/P	90 - 110
Selenium	101	102	P/P	90 - 110
Silver	101	101	P/P	90 - 110
Thallium	103	104	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A119936

Included Lab Sample IDs: 2416867, 2416868

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	89.8		P	80 - 120
PCB-1260	105		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A119954

Included Lab Sample IDs: 2416869

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	102	P/P	90 - 110
Iron	101	102	P/P	90 - 110
Magnesium	101	101	P/P	90 - 110
Potassium	98.4	98.5	P/P	90 - 110
Sodium	96.7	95.5	P/P	90 - 110
Strontium	101	101	P/P	90 - 110
Tin	103	102	P/P	90 - 110
Titanium	101	101	P/P	90 - 110
Vanadium	100	100	P/P	90 - 110
Zinc	103	103	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A120020

Included Lab Sample IDs: 2416867, 2416868

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.5		P	80 - 120
Toxaphene	102		P	80 - 120

Reference Method: EPA 8270E

Run ID: A120024

Included Lab Sample IDs: 2416867, 2416868

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	103		P	80 - 120
Alpha-BHC	108		P	80 - 120
Alpha-Chlordane	112		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A120024

Included Lab Sample IDs: 2416867, 2416868

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-BHC	116		P	80 - 120
Beta-Cyfluthrin	88.9		P	80 - 120
Bifenthrin	97.9		P	80 - 120
Chlorothalonil	105		P	80 - 120
Cis-Nonachlor	115		P	80 - 120
Cypermethrin	98.9		P	80 - 120
Dacthal	96.7		P	80 - 120
DDD-p,p'	107		P	80 - 120
DDE-p,p'	103		P	80 - 120
DDT-p,p'	97.6		P	80 - 120
Delta-BHC	110		P	80 - 120
Deltamethrin	90.7		P	80 - 120
Dichlobenil	109		P	80 - 120
Dicofol	93.0		P	80 - 120
Dieldrin	97.6		P	80 - 120
Endosulfan I	105		P	80 - 120
Endosulfan II	108		P	80 - 120
Endosulfan Sulfate	98.5		P	80 - 120
Endrin	108		P	80 - 120
Endrin Aldehyde	116		P	80 - 120
Endrin Ketone	108		P	80 - 120
Esfenvalerate	93.4		P	80 - 120
Ethalfuralin	97.5		P	80 - 120
Fenpropathrin	97.7		P	80 - 120
Gamma-BHC	106		P	80 - 120
Gamma-Chlordane	113		P	80 - 120
Heptachlor	99.6		P	80 - 120
Heptachlor Epoxide	120		P	80 - 120
Hexachlorobenzene	111		P	80 - 120
Kepone	93.3		P	80 - 120
Lambda-Cyhalothrin	114		P	80 - 120
Methoprene	102		P	80 - 120
Methoxychlor	102		P	80 - 120
MGK-264	94.1		P	80 - 120
Mirex	114		P	80 - 120
Oxychlordane	102		P	80 - 120
Permethrin	94.6		P	80 - 120
Phenothrin	103		P	80 - 120
Piperonyl Butoxide	94.2		P	80 - 120
Prallethrin	111		P	80 - 120
Tau-Fluvalinate	83.9		P	80 - 120
Tetramethrin	99.4		P	80 - 120
Trans-Nonachlor	107		P	80 - 120
Triclosan Methyl	118		P	80 - 120
Trifluralin	97.5		P	80 - 120

Reference Method: SM 4500-F- C-2011

Run ID: A120040

Included Lab Sample IDs: 2416837

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: A120040

Included Lab Sample IDs: 2416837

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	101	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)	98.7				4.22	
EPA 180.1 Rev. 2.0	Turbidity	98.7				5.84	
EPA 200.7 Rev. 4.4	Calcium	102	105				0.420
	Iron	105	106	106			0.0474
	Magnesium	102					0.629
	Potassium	101					0.539
	Sodium	96.7					13.2
	Strontium	101	103	104			0.969
	Tin	103	94.9	96.7			1.91
	Titanium	101	106	103			2.93
	Vanadium	100	101	103			1.68
	Zinc	104	103	103			0.481
EPA 200.8 Rev. 5.4	Aluminum	100	96.7	97.3			0.667
	Antimony	101	101	102			0.895
	Arsenic	102	104	105			1.14
	Barium	102	101	98.7			1.90
	Beryllium	95.6	102	104			2.41
	Boron	105	103	104			0.526
	Cadmium	102	99.2	100			1.17
	Chromium	101	98.0	95.9			2.18
	Cobalt	99.7	96.8	97.4			0.582
	Copper	99.2	98.9	95.5			3.50
	Lead	94.6	94.4	94.4			0.0583
	Manganese	99.9	94.4	92.8			1.60
	Molybdenum	100	102	103			1.28
	Nickel	100	96.3	95.4			1.01
	Selenium	100	100	97.8			2.20
	Silver	105	96.0	98.4			2.46
	Thallium	98.8	94.2	97.2			3.13
EPA 300.0 Rev. 2.1	Chloride	97.5	97.0	94.5		1.60	
	Sulfate	99.0	98.3	96.6		0.724	
EPA 350.1 Rev. 2.0	Ammonia-N	96.2	100	102			1.07
	Ammonia-N	96.6	99.6	102			2.29
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	98.9	109			6.70
	Kjeldahl Nitrogen	108	106	105			0.779
EPA 353.2 Rev. 2.0	NO2NO3-N	106	107	107			0.0
	NO2NO3-N	104	96.5				0.0
EPA 365.1 Rev. 2.0	Total-P	94.6	90.2	90.8			0.663
	Total-P	97.4	95.5	97.7			2.11
EPA 8270E	Aldrin	44.0	53.3	51.3			3.82
	Alpha-BHC	75.4	97.0	87.4			10.4
	Alpha-Chlordane	60.4	75.0	53.6			30.2
	Beta-BHC	82.7	103	92.2			11.4
	Beta-Cyfluthrin	66.9	79.7	66.2			18.6
	Bifenthrin	62.4	108	80.4			29.2
	Chlorothalonil	91.0	193	132			37.7
	Cis-Nonachlor	50.6	72.1	66.3			8.40
	Cypermethrin	66.2	83.1	66.0			23.0
	Dacthal	70.3	116	90.7			24.3
	DDD-p,p'	62.5	106	85.6			20.9
	DDE-p,p'	60.8	102	75.1			30.3
	DDT-p,p'	61.4	70.4	60.0			16.0
	Delta-BHC	96.8	143	105			31.3
	Deltamethrin	82.8	110	103			6.79

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Dichlobenil	73.5	39.1	45.6		15.2
	Dicofol	62.5	84.2	73.9		13.1
	Dieldrin	57.1	75.8	67.2		12.1
	Endosulfan I	62.8	80.5	72.8		10.1
	Endosulfan II	55.3	61.1	59.6		2.46
	Endosulfan Sulfate	57.7	77.2	59.9		25.2
	Endrin	57.6	66.9	64.9		3.06
	Endrin Aldehyde	59.3	87.5	64.6		30.1
	Endrin Ketone	77.3	77.9	68.5		12.9
	Esfenvalerate	91.8	118	128		8.39
	Ethalfuralin	59.6	62.8	62.9		0.0547
	Fenpropathrin	61.3	74.0	65.4		12.3
	Gamma-BHC	80.4	115	91.4		23.0
	Gamma-Chlordane	63.0	64.3	46.1		29.6
	Heptachlor	53.4	56.9	56.4		0.808
	Heptachlor Epoxide	77.2	76.9	67.8		12.6
	Hexachlorobenzene	51.9	81.0	57.8		33.6
	Kepone	53.5	93.4	54.8		52.1
	Lambda-Cyhalothrin	79.9	190	155		20.4
	Methoprene	42.6	47.4	41.9		12.4
	Methoxychlor	69.5	83.0	75.2		9.94
	MGK-264	49.2	57.9	55.7		3.83
	Mirex	59.2	86.7	68.8		23.0
	Oxychlordane	53.2	47.8	47.4		0.863
	PCB-1016	71.3	92.2	104		11.7
	PCB-1260	65.5	83.8	106		23.7
	Permethrin	60.2	75.7	79.4		4.69
	Phenothrin	79.0	115	107		6.97
	Piperonyl Butoxide	75.7	113	105		7.22
	Prallethrin	52.9	45.2	44.4		1.67
	Tau-Fluvalinate	76.3	148	138		6.75
	Tetramethrin	67.7	83.3	72.4		13.9
	Trans-Nonachlor	56.2	71.5	45.6		44.3
	Triclosan Methyl	69.8	81.1	69.3		15.7
	Trifluralin	66.4	54.2	56.2		3.71
EPA 8276	Chlordane	59.2	47.4	42.8		10.3
	Toxaphene	64.1	58.9	59.9		1.57
SM 2320 B-2011	Total Alkalinity	96.6			0.286	
SM 2540 C-2015	TDS	95.6			2.92	
SM 2540 D-2015	TSS	87.0				
	TSS	87.9				
SM 4500-F- C-2011	Fluoride	99.4	99.6	101		0.993
	Fluoride	100	100	103		1.91
SM 5310 B-2011	Organic Carbon	95.7	96.6	97.7		1.13
	Organic Carbon	94.6	92.2	92.8		0.545

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2416837, 2416839
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2416837, 2416839
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2416869

Reference Method Descriptions

Method	Description	Associated Samples
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2416869
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2416837, 2416839
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2416837, 2416839
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2416838, 2416840
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2416838, 2416840
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2416838, 2416840
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2416838, 2416840
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2416867, 2416868
EPA 8270E	PCBs in water matrices by GC/MS/MS	2416867, 2416868
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2416867, 2416868
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2416837, 2416839
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2416869
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2416837, 2416839
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2416837, 2416839
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2416837, 2416839
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2416838, 2416840

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	06/13/2023			06/13/2023 13:46	Chandler E Cox	2416837
	06/13/2023			06/13/2023 13:47	Chandler E Cox	2416839
EPA 180.1 Rev. 2.0	06/13/2023			06/13/2023 12:55	Alexis Price	2416837
	06/13/2023			06/13/2023 12:56	Alexis Price	2416839
EPA 200.7 Rev. 4.4	06/13/2023	06/19/2023 12:45	George D Taylor	06/21/2023 20:17	McKinley C Carter	2416869
	06/13/2023	06/19/2023 12:45	George D Taylor	06/21/2023 20:29	McKinley C Carter	2416869
EPA 200.8 Rev. 5.4	06/13/2023	06/19/2023 12:45	George D Taylor	06/20/2023 17:36	Emily M Philpot	2416869
	06/13/2023	06/19/2023 12:45	George D Taylor	06/20/2023 20:57	Emily M Philpot	2416869
EPA 300.0 Rev. 2.1	06/13/2023			06/15/2023 16:18	James L Waggeberby	2416837
	06/13/2023			06/15/2023 16:33	James L Waggeberby	2416839
	06/13/2023			06/20/2023 00:26	James L Waggeberby	2416837
	06/13/2023			06/20/2023 00:41	James L Waggeberby	2416839
EPA 350.1 Rev. 2.0	06/13/2023			06/15/2023 12:44	Khloe J Berg	2416838
	06/13/2023			06/20/2023 14:20	Khloe J Berg	2416840
EPA 351.2 Rev. 2.0	06/13/2023	06/16/2023 11:09	Simonne.V. Calhoun	06/19/2023 09:51	Ping Hua	2416838
	06/13/2023	06/16/2023 13:34	Simonne.V. Calhoun	06/19/2023 14:05	Samantha L Bates	2416840
EPA 353.2 Rev. 2.0	06/13/2023			06/15/2023 14:50	Anna M. Plaviak	2416838
	06/13/2023			06/16/2023 10:40	Beverly Y. Sanders	2416840
EPA 365.1 Rev. 2.0	06/13/2023	06/14/2023 13:30	Simonne.V. Calhoun	06/15/2023 13:39	Simonne.V. Calhoun	2416838
	06/13/2023	06/14/2023 13:30	Simonne.V. Calhoun	06/15/2023 13:52	Simonne.V. Calhoun	2416840
EPA 8270E	06/13/2023	06/16/2023 08:00	Fe-Val Siddell	06/20/2023 22:02	Michael Poppell	2416867
	06/13/2023	06/16/2023 08:00	Fe-Val Siddell	06/20/2023 22:18	Lipi Saha	2416867
	06/13/2023	06/16/2023 08:00	Fe-Val Siddell	06/20/2023 22:34	Michael Poppell	2416868
	06/13/2023	06/16/2023 08:00	Fe-Val Siddell	06/20/2023 22:48	Lipi Saha	2416868
EPA 8276	06/13/2023	06/16/2023 08:00	Fe-Val Siddell	06/22/2023 06:23	Lipi Saha	2416867
	06/13/2023	06/16/2023 08:00	Fe-Val Siddell	06/22/2023 07:20	Lipi Saha	2416868
SM 2320 B-2011	06/13/2023			06/20/2023 03:02	Dale L. Simmons	2416839
	06/13/2023			06/20/2023 07:02	Dale L. Simmons	2416837
SM 2340 B-2011	06/13/2023			06/21/2023 20:29	McKinley C Carter	2416869
SM 2540 C-2015	06/13/2023			06/14/2023 11:30	Dana G. Hughes	2416837, 2416839
SM 2540 D-2015	06/13/2023			06/14/2023 11:30	Dana G. Hughes	2416837, 2416839
SM 4500-F- C-2011	06/13/2023			06/20/2023 03:02	Dale L. Simmons	2416839
	06/13/2023			06/27/2023 00:36	Adam P Silver	2416837
SM 5310 B-2011	06/13/2023			06/16/2023 17:18	Elise M. Gillis	2416840
	06/13/2023			06/17/2023 00:39	Elise M. Gillis	2416838