

Chemical Analysis Report

SE-DIST-2023-03-08-01

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

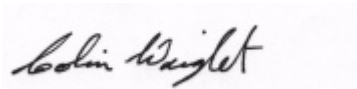
Event Description: **SMP - Seabasstian River**
Request ID: **RQ-2023-02-27-39**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Andrew Luering

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Certified by: Colin Wright, Program Administrator

Date Certified: 29-MAR-2023 08:50

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

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: 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: South Prong Sebastian @ Park Dock

Collection Date/Time: 03/07/2023 09:30

Field ID: G5SE0079

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2392851	EPA 8270E	Aldrin	0.65	U	ng/L	P427091	
		Alpha-BHC	0.10	U	ng/L	P427091	
		Alpha-Chlordane	0.20	U	ng/L	P427091	
		PCB-1016	2.0	U	ng/L	P427091	
		Beta-BHC	0.10	U	ng/L	P427091	
		PCB-1221	2.0	U	ng/L	P427091	
		Beta-Cyfluthrin	1.3	U	ng/L	P427091	
		PCB-1232	2.0	U	ng/L	P427091	
		Bifenthrin	0.50	U	ng/L	P427091	
		PCB-1242	2.0	U	ng/L	P427091	
		PCB-1248	2.0	U	ng/L	P427091	
		Chlorothalonil	3.6	U	ng/L	P427091	MS
		PCB-1254	2.0	U	ng/L	P427091	
		Cis-Nonachlor	0.20	U	ng/L	P427091	
		PCB-1260	2.0	U	ng/L	P427091	
		Cypermethrin	1.5	U	ng/L	P427091	
		Dacthal	0.15	U	ng/L	P427091	
		DDD-p,p'	0.25	U	ng/L	P427091	
		DDE-p,p'	0.20	U	ng/L	P427091	
		DDT-p,p'	0.25	U	ng/L	P427091	
		Delta-BHC	0.40	U	ng/L	P427091	
		Deltamethrin	1.3	U	ng/L	P427091	
		Dichlobenil	0.25	U	ng/L	P427091	
		Dicofol	1.3	U	ng/L	P427091	
		Dieldrin	0.40	U	ng/L	P427091	
		Endosulfan I	0.40	U	ng/L	P427091	
		Endosulfan II	0.40	U	ng/L	P427091	
		Endosulfan Sulfate	0.30	U	ng/L	P427091	
		Endrin	0.40	U	ng/L	P427091	
		Endrin Aldehyde	0.75	U	ng/L	P427091	
		Endrin Ketone	0.40	U	ng/L	P427091	
		Esfenvalerate	0.75	U	ng/L	P427091	
		Ethalfuralin	0.15	U	ng/L	P427091	
		Fenpropathrin	0.25	U	ng/L	P427091	
		Gamma-BHC	0.13	U	ng/L	P427091	
		Gamma-Chlordane	0.20	U	ng/L	P427091	
		Heptachlor	0.20	U	ng/L	P427091	
		Heptachlor Epoxide	0.25	U	ng/L	P427091	
		Hexachlorobenzene**	1.0	U	ng/L	P427091	
		Kepone	5.0	U	ng/L	P427091	
		Lambda-Cyhalothrin	0.75	U	ng/L	P427091	
		Methoprene	0.75	U	ng/L	P427091	
		Methoxychlor	0.30	U	ng/L	P427091	
		MGK-264	0.20	U	ng/L	P427091	MS

Field ID: G5SE0079

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2392851	EPA 8270E	Mirex	0.35	U	ng/L	P427091	
		Oxychlordane	0.30	U	ng/L	P427091	
		Permethrin	1.6	U	ng/L	P427091	
		Phenothrin	0.91	U	ng/L	P427091	
		Piperonyl Butoxide	0.15	U	ng/L	P427091	
		Prallethrin	2.0	U	ng/L	P427091	
		Tau-Fluvalinate	0.25	U	ng/L	P427091	
		Tetramethrin	0.75	U	ng/L	P427091	
		Trans-Nonachlor	0.20	U	ng/L	P427091	
		Triclosan Methyl	0.15	U	ng/L	P427091	
		Trifluralin	0.20	U	ng/L	P427091	
	EPA 8276	Chlordane	2.0	U	ng/L	P427091	
		Toxaphene	15	U	ng/L	P427091	

Ref. Method and Comment:
EPA 8270E: MS precision for chlorothalonil not assessed due to no recoveries.

Sample Location: Micco Ditch @ Micco Rd.

Collection Date/Time: 03/07/2023 10:20

Field ID: G5SE0048

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2392845	DEP SOP: NU-094-1	Color (true)	58		PCU	P426885	
	EPA 180.1 Rev. 2.0	Turbidity	9.4		NTU	P426877	
	EPA 300.0 Rev. 2.1	Chloride	150		mg Cl/L	P427504	
		Sulfate	27		mg SO4/L	P427506	
	SM 2320 B-2011	Total Alkalinity	245		mg CaCO3/L	P427035	
	SM 2540 C-2015	TDS	566		mg/L	P427448	
	SM 2540 D-2015	TSS	9	I	mg/L	P427486	
	SM 4500-F- C-2011	Fluoride	0.26		mg F/L	P427294	
2392846	EPA 350.1 Rev. 2.0	Ammonia-N	0.027		mg N/L	P426949	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.82		mg N/L	P427381	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.016		mg N/L	P427125	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P427064	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P427111	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P426885

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426877

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427504

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427506

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426949

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427381

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427125

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427064

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

Reference Method: EPA 8270E
Batch ID: P427091

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427091

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P427091

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P427091

Component	Result	Code	Units
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P427091

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: P427035

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

Reference Method: SM 2540 C-2015
Batch ID: P427448

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P427486

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P427294

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P427111

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: P426885

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.9		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426877

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427504

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427506

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426949

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427381

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.7		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427125

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: P427064

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

Reference Method: EPA 8270E
Batch ID: P427091

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	29.8		P	10 - 92.0
Alpha-BHC	85.0		P	75 - 107
Alpha-Chlordane	50.9		P	50 - 108
Beta-BHC	89.4		P	36 - 138

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P427091

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	31.5		P	20 - 161
Bifenthrin	21.3		P	10 - 119
Chlorothalonil	65.1		P	26 - 186
Cis-Nonachlor	46.3		P	42 - 119
Cypermethrin	37.6		P	22 - 150
Dacthal	77.6		P	72 - 119
DDD-p,p'	57.2		P	45 - 107
DDE-p,p'	49.8		P	48 - 106
DDT-p,p'	54.0		P	48 - 110
Delta-BHC	88.7		P	54 - 140
Deltamethrin	37.8		P	22 - 189
Dichlobenil	61.1		P	36 - 117
Dicofol	56.6		P	46 - 155
Dieldrin	63.8		P	54 - 110
Endosulfan I	64.6		P	59 - 105
Endosulfan II	83.5		P	51 - 118
Endosulfan Sulfate	79.2		P	57 - 121
Endrin	67.6		P	10 - 120
Endrin Aldehyde	68.4		P	34 - 118
Endrin Ketone	77.0		P	69 - 177
Esfenvalerate	34.0		P	23 - 168
Ethalfuralin	53.3		P	49 - 99.0
Fenpropathrin	36.2		P	34 - 117
Gamma-BHC	78.8		P	72 - 117
Gamma-Chlordane	45.2		P	43 - 106
Heptachlor	41.2		P	41 - 98.0
Heptachlor Epoxide	63.0		P	57 - 106
Hexachlorobenzene	36.9		P	36 - 99.0
Kepone	108		P	16 - 215
Lambda-Cyhalothrin	22.7		P	21 - 177
Methoprene	31.4		P	10 - 119
Methoxychlor	64.7		P	60 - 112
MGK-264	80.2		P	26 - 122
Mirex	22.1		P	10 - 169
Oxychlordane	53.7		P	43 - 105
PCB-1016	72.5		P	48 - 112
PCB-1260	71.1		P	44 - 118
Permethrin	33.3		P	24 - 148
Phenothrin	24.2		P	10 - 106
Piperonyl Butoxide	86.4		P	10 - 139
Prallethrin	62.8		P	17 - 109
Tau-Fluvalinate	25.1		P	13 - 131
Tetramethrin	69.4		P	10 - 132
Trans-Nonachlor	47.1		P	44 - 106
Triclosan Methyl	65.2		P	59 - 109
Trifluralin	50.2		P	44 - 101

Reference Method: EPA 8276

Batch ID: P427091

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	77.4		P	61 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P427091

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Toxaphene	83.4		P	48 - 124

Reference Method: SM 2320 B-2011
Batch ID: P427035

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.1		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P427448

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

Reference Method: SM 2540 D-2015
Batch ID: P427486

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	102		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P427294

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.7		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P427111

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427504

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2392734	Chloride	99.4		P	90 - 110
2392735	Chloride	98.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2392734	Sulfate	98.5		P	90 - 110
2392735	Sulfate	95.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426949

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2392846	Ammonia-N	97.2	97.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393746	Kjeldahl Nitrogen	95.4	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427125

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2392736	NO2NO3-N	90.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427064

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2392567	Total-P	103	104	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P427091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2392882	Aldrin	40.3	36.1	P/P	20 - 82.0
2392882	Alpha-BHC	80.4	71.5	P/P	71 - 109
2392882	Alpha-Chlordane	63.0	57.0	P/P	42 - 106
2392882	Beta-BHC	92.5	84.0	P/P	69 - 180
2392882	Beta-Cyfluthrin	69.4	54.2	P/P	18 - 175
2392882	Bifenthrin	58.0	44.1	P/P	21 - 128
2392882	Chlorothalonil	0.0	0.0	F/F	10 - 300
2392882	Cis-Nonachlor	56.6	49.2	P/P	34 - 106
2392882	Cypermethrin	68.3	54.6	P/P	22 - 158
2392882	Dacthal	82.6	76.9	P/P	54 - 116
2392882	DDD-p,p'	62.1	54.6	P/P	34 - 107
2392882	DDE-p,p'	62.1	54.6	P/P	33 - 110
2392882	DDT-p,p'	62.7	51.2	P/P	50 - 122
2392882	Delta-BHC	90.9	84.8	P/P	77 - 193

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P427091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2392882	Deltamethrin	75.3	59.9	P/P	10 - 195
2392882	Dichlobenil	57.9	55.7	P/P	25 - 113
2392882	Dicofol	58.7	54.3	P/P	38 - 247
2392882	Dieldrin	66.2	59.7	P/P	45 - 118
2392882	Endosulfan I	66.2	59.2	P/P	51 - 106
2392882	Endosulfan II	71.4	71.8	P/P	37 - 122
2392882	Endosulfan Sulfate	72.0	60.3	P/P	43 - 132
2392882	Endrin	67.2	61.2	P/P	29 - 101
2392882	Endrin Aldehyde	64.7	55.4	P/P	19 - 110
2392882	Endrin Ketone	67.2	60.7	P/P	60 - 140
2392882	Esfenvalerate	68.2	52.5	P/P	26 - 199
2392882	Ethalfuralin	64.3	56.1	P/P	45 - 99.0
2392882	Fenpropathrin	66.2	53.4	P/P	35 - 120
2392882	Gamma-BHC	80.2	74.3	P/P	63 - 128
2392882	Gamma-Chlordane	59.9	51.6	P/P	40 - 104
2392882	Heptachlor	52.4	46.1	P/P	36 - 97.0
2392882	Heptachlor Epoxide	66.8	64.4	P/P	49 - 184
2392882	Hexachlorobenzene	51.5	43.6	P/P	39 - 96.0
2392882	Kepone	99.7	101	P/P	10 - 217
2392882	Lambda-Cyhalothrin	60.5	46.4	P/P	21 - 193
2392882	Methoprene	56.8	48.4	P/P	20 - 106
2392882	Methoxychlor	66.7	62.3	P/P	53 - 118
2392882	MGK-264	25.0	29.2	F/F	40 - 118
2392882	Mirex	50.7	36.9	P/P	26 - 92.0
2392882	Oxychlordane	66.3	54.4	P/P	44 - 99.0
2392882	Permethrin	64.3	50.2	P/P	33 - 182
2392882	Phenothrin	62.4	52.3	P/P	10 - 129
2392882	Piperonyl Butoxide	77.0	70.9	P/P	10 - 211
2392882	Prallethrin	63.3	59.1	P/P	24 - 113
2392882	Tau-Fluvalinate	63.0	46.0	P/P	14 - 149
2392882	Tetramethrin	82.1	79.4	P/P	17 - 151
2392882	Trans-Nonachlor	57.4	51.6	P/P	42 - 102
2392882	Triclosan Methyl	70.1	63.0	P/P	48 - 108
2392882	Trifluralin	66.1	54.3	P/P	47 - 96.0
2393385	PCB-1016	70.0	72.2	P/P	46 - 111
2393385	PCB-1260	72.8	73.1	P/P	45 - 114

Reference Method: EPA 8276

Batch ID: P427091

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393385	Chlordane	73.3	69.3	P/P	53 - 126
2393385	Toxaphene	78.2	71.6	P/P	56 - 211

Reference Method: SM 4500-F- C-2011

Batch ID: P427294

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393167	Fluoride	98.5	99.3	P/P	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P427111

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2393017	Organic Carbon	95.4	98.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P426885

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392807	Color (true)	0.850	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P426877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392733	Turbidity	0.247	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427504

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392734	Chloride	0.499	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P427506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392734	Sulfate	0.920	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P426949

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392846	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P427381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393746	Kjeldahl Nitrogen	4.32	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P427125

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392736	NO2NO3-N	0.195	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P427064

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392567	Total-P	0.497	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P427091

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392882	Aldrin	11.1	Spike	P	0 - 41
2392882	Alpha-BHC	11.7	Spike	P	0 - 25
2392882	Alpha-Chlordane	9.95	Spike	P	0 - 33
2392882	Beta-BHC	9.67	Spike	P	0 - 36
2392882	Beta-Cyfluthrin	24.7	Spike	P	0 - 42
2392882	Bifenthrin	27.2	Spike	P	0 - 53
2392882	Cis-Nonachlor	14.0	Spike	P	0 - 29
2392882	Cypermethrin	22.3	Spike	P	0 - 40
2392882	Dacthal	7.13	Spike	P	0 - 26
2392882	DDD-p,p'	12.9	Spike	P	0 - 39
2392882	DDE-p,p'	12.7	Spike	P	0 - 33
2392882	DDT-p,p'	20.2	Spike	P	0 - 40
2392882	Delta-BHC	6.95	Spike	P	0 - 37
2392882	Deltamethrin	22.7	Spike	P	0 - 100
2392882	Dichlobenil	3.87	Spike	P	0 - 40
2392882	Dicofol	7.66	Spike	P	0 - 31
2392882	Dieldrin	10.3	Spike	P	0 - 27
2392882	Endosulfan I	11.2	Spike	P	0 - 23
2392882	Endosulfan II	0.574	Spike	P	0 - 28
2392882	Endosulfan Sulfate	17.7	Spike	P	0 - 38
2392882	Endrin	9.31	Spike	P	0 - 63
2392882	Endrin Aldehyde	15.5	Spike	P	0 - 60
2392882	Endrin Ketone	10.1	Spike	P	0 - 37
2392882	Esfenvalerate	26.1	Spike	P	0 - 52
2392882	Ethalfuralin	13.5	Spike	P	0 - 23
2392882	Fenpropathrin	21.6	Spike	P	0 - 32
2392882	Gamma-BHC	7.57	Spike	P	0 - 17
2392882	Gamma-Chlordane	15.0	Spike	P	0 - 40
2392882	Heptachlor	12.9	Spike	P	0 - 29
2392882	Heptachlor Epoxide	3.67	Spike	P	0 - 25
2392882	Hexachlorobenzene	16.6	Spike	P	0 - 36
2392882	Kepone	1.49	Spike	P	0 - 93
2392882	Lambda-Cyhalothrin	26.3	Spike	P	0 - 55
2392882	Methoprene	16.0	Spike	P	0 - 53
2392882	Methoxychlor	6.81	Spike	P	0 - 29
2392882	MGK-264	15.3	Spike	P	0 - 35
2392882	Mirex	31.5	Spike	P	0 - 46
2392882	Oxychlordane	19.7	Spike	P	0 - 29
2392882	Permethrin	24.6	Spike	P	0 - 44
2392882	Phenothrin	17.6	Spike	P	0 - 56
2392882	Piperonyl Butoxide	8.25	Spike	P	0 - 100
2392882	Prallethrin	6.86	Spike	P	0 - 42
2392882	Tau-Fluvalinate	31.3	Spike	P	0 - 54
2392882	Tetramethrin	3.39	Spike	P	0 - 51
2392882	Trans-Nonachlor	10.7	Spike	P	0 - 37
2392882	Triclosan Methyl	10.7	Spike	P	0 - 31
2392882	Trifluralin	19.6	Spike	P	0 - 30
2393385	PCB-1016	3.07	Spike	P	0 - 32
2393385	PCB-1260	0.457	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P427091

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393385	Chlordane	5.57	Spike	P	0 - 25
2393385	Toxaphene	8.81	Spike	P	0 - 26

Reference Method: SM 2320 B-2011

Batch ID: P427035

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392889	Total Alkalinity	0.840	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P427448

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392735	TDS	1.57	Sample	P	0 - 10

Reference Method: SM 2540 D-2015

Batch ID: P427486

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2392735	TSS	6.90	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P427294

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393167	Fluoride	0.524	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011

Batch ID: P427111

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2393017	Organic Carbon	2.09	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2392851
Field Sample ID: G5SE0079

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	67.6	P	29 - 130
EPA 8270E	Decachlorobiphenyl	63.0	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	47.7	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	46.7	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	34.9	P	30 - 101
EPA 8276	PCNB	62.0	P	48 - 121

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A117876
Included Lab Sample IDs: 2392845

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	101	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1
Run ID: A117877
Included Lab Sample IDs: 2392845

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.2	96.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A117903
Included Lab Sample IDs: 2392846

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.6	99.2	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A117948
Included Lab Sample IDs: 2392845

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.8	94.9	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A117973
Included Lab Sample IDs: 2392846

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.8	97.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A117976
Included Lab Sample IDs: 2392846

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A118001
Included Lab Sample IDs: 2392846

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	97.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A118053
Included Lab Sample IDs: 2392845

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276
Run ID: A118091
Included Lab Sample IDs: 2392851

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.6		P	80 - 120
Toxaphene	99.2		P	80 - 120

Reference Method: EPA 8270E
Run ID: A118119
Included Lab Sample IDs: 2392851

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	102		P	80 - 120
PCB-1260	94.0		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A118124
Included Lab Sample IDs: 2392845

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.2	98.6	P/P	90 - 110
Sulfate	100	99.3	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A118127
Included Lab Sample IDs: 2392851

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	96.9		P	80 - 120
Alpha-BHC	108		P	80 - 120
Alpha-Chlordane	90.5		P	80 - 120
Beta-BHC	106		P	80 - 120
Beta-Cyfluthrin	99.9		P	80 - 120
Bifenthrin	102		P	80 - 120
Chlorothalonil	95.6		P	80 - 120
Cis-Nonachlor	112		P	80 - 120
Cypermethrin	103		P	80 - 120
Dacthal	96.7		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	111		P	80 - 120
Delta-BHC	109		P	80 - 120
Deltamethrin	103		P	80 - 120
Dichlobenil	109		P	80 - 120
Dicofol	95.2		P	80 - 120
Dieldrin	105		P	80 - 120
Endosulfan I	108		P	80 - 120
Endosulfan II	108		P	80 - 120
Endosulfan Sulfate	103		P	80 - 120
Endrin	105		P	80 - 120
Endrin Aldehyde	93.9		P	80 - 120
Endrin Ketone	113		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfuralin	98.2		P	80 - 120
Fenpropathrin	96.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118127
Included Lab Sample IDs: 2392851

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Gamma-BHC	105		P	80 - 120
Gamma-Chlordane	104		P	80 - 120
Heptachlor	99.8		P	80 - 120
Heptachlor Epoxide	99.5		P	80 - 120
Hexachlorobenzene	94.1		P	80 - 120
Kepone	83.5		P	80 - 120
Lambda-Cyhalothrin	103		P	80 - 120
Methoprene	113		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	109		P	80 - 120
Mirex	110		P	80 - 120
Oxychlordane	111		P	80 - 120
Permethrin	106		P	80 - 120
Phenothrin	97.4		P	80 - 120
Piperonyl Butoxide	113		P	80 - 120
Prallethrin	116		P	80 - 120
Tau-Fluvalinate	99.8		P	80 - 120
Tetramethrin	105		P	80 - 120
Trans-Nonachlor	108		P	80 - 120
Triclosan Methyl	104		P	80 - 120
Trifluralin	103		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A118148
Included Lab Sample IDs: 2392846

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.7	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)	98.9				0.850	
EPA 180.1 Rev. 2.0	Turbidity	100				0.247	
EPA 300.0 Rev. 2.1	Chloride	99.7	99.4	98.2		0.499	
	Sulfate	99.4	98.5	95.6		0.920	
EPA 350.1 Rev. 2.0	Ammonia-N	100	97.2	97.2			0.0
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	94.7	95.4	100			4.32
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	102	90.5				0.195
EPA 365.1 Rev. 2.0	Total-P	102	104	103			0.497
EPA 8270E	Aldrin	29.8	40.3	36.1			11.1
	Alpha-BHC	85.0	80.4	71.5			11.7
	Alpha-Chlordane	50.9	63.0	57.0			9.95
	Beta-BHC	89.4	92.5	84.0			9.67
	Beta-Cyfluthrin	31.5	69.4	54.2			24.7
	Bifenthrin	21.3	58.0	44.1			27.2
	Chlorothalonil	65.1	0.0	0.0			
	Cis-Nonachlor	46.3	56.6	49.2			14.0
	Cypermethrin	37.6	68.3	54.6			22.3
	Dacthal	77.6	82.6	76.9			7.13
	DDD-p,p'	57.2	62.1	54.6			12.9
	DDE-p,p'	49.8	62.1	54.6			12.7
	DDT-p,p'	54.0	62.7	51.2			20.2
	Delta-BHC	88.7	90.9	84.8			6.95
	Deltamethrin	37.8	75.3	59.9			22.7
	Dichlobenil	61.1	57.9	55.7			3.87
	Dicofol	56.6	58.7	54.3			7.66
	Dieldrin	63.8	66.2	59.7			10.3
	Endosulfan I	64.6	66.2	59.2			11.2
	Endosulfan II	83.5	71.4	71.8			0.574
	Endosulfan Sulfate	79.2	72.0	60.3			17.7
	Endrin	67.6	67.2	61.2			9.31
	Endrin Aldehyde	68.4	64.7	55.4			15.5
	Endrin Ketone	77.0	67.2	60.7			10.1
	Esfenvalerate	34.0	68.2	52.5			26.1
	Ethalfuralin	53.3	64.3	56.1			13.5
	Fenpropathrin	36.2	66.2	53.4			21.6
	Gamma-BHC	78.8	80.2	74.3			7.57
	Gamma-Chlordane	45.2	59.9	51.6			15.0
	Heptachlor	41.2	52.4	46.1			12.9
	Heptachlor Epoxide	63.0	66.8	64.4			3.67
	Hexachlorobenzene	36.9	51.5	43.6			16.6
	Kepone	108	99.7	101			1.49
	Lambda-Cyhalothrin	22.7	60.5	46.4			26.3
	Methoprene	31.4	56.8	48.4			16.0
	Methoxychlor	64.7	66.7	62.3			6.81
	MGK-264	80.2	25.0	29.2			15.3
	Mirex	22.1	50.7	36.9			31.5
	Oxychlordane	53.7	66.3	54.4			19.7
	PCB-1016	72.5	70.0	72.2			3.07
	PCB-1260	71.1	72.8	73.1			0.457
	Permethrin	33.3	64.3	50.2			24.6
	Phenothrin	24.2	62.4	52.3			17.6
	Piperonyl Butoxide	86.4	77.0	70.9			8.25
	Prallethrin	62.8	63.3	59.1			6.86
	Tau-Fluvalinate	25.1	63.0	46.0			31.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8270E	Tetramethrin	69.4	82.1	79.4		3.39
	Trans-Nonachlor	47.1	57.4	51.6		10.7
	Triclosan Methyl	65.2	70.1	63.0		10.7
	Trifluralin	50.2	66.1	54.3		19.6
EPA 8276	Chlordane	77.4	73.3	69.3		5.57
	Toxaphene	83.4	78.2	71.6		8.81
SM 2320 B-2011	Total Alkalinity	95.1			0.840	
SM 2540 C-2015	TDS	97.4			1.57	
SM 2540 D-2015	TSS	102			6.90	
SM 4500-F- C-2011	Fluoride	97.7	98.5	99.3		0.524
SM 5310 B-2011	Organic Carbon	95.4	95.4	98.0		2.09

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2392845
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2392845
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2392845
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2392845
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2392846
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2392846
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2392846
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2392846
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2392851
EPA 8270E	PCBs in water matrices by GC/MS/MS	2392851
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2392851
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2392845
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2392845
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2392845
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2392845
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2392846

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	03/08/2023			03/08/2023 15:02	Samantha L Bates	2392845
EPA 180.1 Rev. 2.0	03/08/2023			03/08/2023 14:23	Anna M. Plaviak	2392845
EPA 300.0 Rev. 2.1	03/08/2023			03/21/2023 16:50	Anna M. Plaviak	2392845
EPA 350.1 Rev. 2.0	03/08/2023			03/09/2023 14:00	Khloe J Berg	2392846
EPA 351.2 Rev. 2.0	03/08/2023	03/21/2023 13:15	Simonne.V. Calhoun	03/22/2023 15:30	Judith K. Clark	2392846
EPA 353.2 Rev. 2.0	03/08/2023			03/14/2023 09:51	Beverly Y. Sanders	2392846
EPA 365.1 Rev. 2.0	03/08/2023	03/13/2023 16:23	Adam P Silver	03/15/2023 11:02	James L Waggeberby	2392846
EPA 8270E	03/08/2023	03/13/2023 09:00	Julie Wi	03/17/2023 23:25	Julie Wi	2392851
	03/08/2023	03/13/2023 09:00	Julie Wi	03/22/2023 02:19	Julie Wi	2392851
EPA 8276	03/08/2023	03/13/2023 09:00	Julie Wi	03/18/2023 06:05	Lipi Saha	2392851
SM 2320 B-2011	03/08/2023			03/11/2023 11:06	Dale L. Simmons	2392845
SM 2540 C-2015	03/08/2023			03/13/2023 16:21	Yijie Li	2392845
SM 2540 D-2015	03/08/2023			03/13/2023 16:21	Yijie Li	2392845
SM 4500-F- C-2011	03/08/2023			03/16/2023 21:25	Dale L. Simmons	2392845
SM 5310 B-2011	03/08/2023			03/13/2023 19:10	Elise M. Gillis	2392846