

Chemical Analysis Report

SE-DIST-2023-07-12-01

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

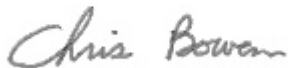
Event Description: **St. Sebastian River Run**
Request ID: **RQ-2023-07-10-26**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
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Certified by: Chris Bowen, Environmental Administrator

Date Certified: 27-JUL-2023 12:53



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 AT PARK DOCK Collection Date/Time: 07/11/2023 09:15

Field ID: G5SE0079

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422984	EPA 8270E	Aldrin	0.66	U	ng/L	P432363	
		Alpha-BHC	0.10	U	ng/L	P432363	
		Alpha-Chlordane	0.20	U	ng/L	P432363	
		PCB-1016	2.0	U	ng/L	P432363	
		Beta-BHC	0.10	U	ng/L	P432363	
		PCB-1221	2.0	U	ng/L	P432363	
		Beta-Cyfluthrin	1.3	U	ng/L	P432363	
		PCB-1232	2.0	U	ng/L	P432363	
		Bifenthrin	0.51	U	ng/L	P432363	
		PCB-1242	2.0	U	ng/L	P432363	
		Carbophenothion	0.92	U	ng/L	P432363	
		PCB-1248	2.0	U	ng/L	P432363	
		Chlorothalonil	3.7	U	ng/L	P432363	
		PCB-1254	2.0	U	ng/L	P432363	
		Cis-Nonachlor	0.20	U	ng/L	P432363	
		PCB-1260	2.0	U	ng/L	P432363	
		Cypermethrin	1.5	U	ng/L	P432363	
		Dacthal	0.15	U	ng/L	P432363	
		DDD-p,p'	0.25	U	ng/L	P432363	
		DDE-p,p'	0.20	U	ng/L	P432363	
		DDT-p,p'	0.81	UJ	ng/L	P432363	MS
		Delta-BHC	0.41	U	ng/L	P432363	
		Deltamethrin	1.3	U	ng/L	P432363	
		Dichlobenil	0.25	U	ng/L	P432363	
		Dicofol	1.3	U	ng/L	P432363	
		Dieldrin	0.41	U	ng/L	P432363	
		Endosulfan I	0.41	U	ng/L	P432363	
		Endosulfan II	0.92	U	ng/L	P432363	
		Endosulfan Sulfate	0.31	U	ng/L	P432363	
		Endrin	0.92	U	ng/L	P432363	
		Endrin Aldehyde	0.76	U	ng/L	P432363	
		Endrin Ketone	0.41	U	ng/L	P432363	
		Esfenvalerate	0.76	U	ng/L	P432363	
		Ethalfuralin	0.15	U	ng/L	P432363	
		Fenpropathrin	0.25	U	ng/L	P432363	
		Gamma-BHC	0.13	U	ng/L	P432363	
		Gamma-Chlordane	0.20	U	ng/L	P432363	
		Heptachlor	0.20	U	ng/L	P432363	
		Heptachlor Epoxide	0.25	U	ng/L	P432363	
		Hexachlorobenzene**	1.0	U	ng/L	P432363	
		Kepone	14	UJ	ng/L	P432363	CCV
		Lambda-Cyhalothrin	0.76	U	ng/L	P432363	
		Methoprene	0.76	U	ng/L	P432363	
		Methoxychlor	0.31	U	ng/L	P432363	

Field ID: G5SE0079

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422984	EPA 8270E	MGK-264	0.20	U	ng/L	P432363	
		Mirex	0.36	U	ng/L	P432363	
		Oxychlordane	0.31	U	ng/L	P432363	
		Permethrin	1.6	U	ng/L	P432363	
		Phenothrin	0.92	U	ng/L	P432363	
		Piperonyl Butoxide	0.31	I	ng/L	P432363	
		Prallethrin	2.0	U	ng/L	P432363	
		Tau-Fluvalinate	0.25	U	ng/L	P432363	
		Tetramethrin	0.76	U	ng/L	P432363	
		Trans-Nonachlor	0.20	U	ng/L	P432363	
		Triclosan Methyl	0.15	U	ng/L	P432363	
		Trifluralin	0.20	U	ng/L	P432363	
	EPA 8276	Chlordane	2.0	U	ng/L	P432363	
		Toxaphene	15	U	ng/L	P432363	

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

Sample Location: MICCO DITCH AT MICCO RD

Collection Date/Time: 07/11/2023 10:05

Field ID: G5SE0048

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2422978	DEP SOP: NU-094-1	Color (true)	66		PCU	P432372	
	EPA 180.1 Rev. 2.0	Turbidity	18		NTU	P432379	
	EPA 300.0 Rev. 2.1	Chloride	150		mg Cl/L	P432487	
		Sulfate	23		mg SO4/L	P432490	
	SM 2320 B-2011	Total Alkalinity	187		mg CaCO3/L	P432714	
	SM 2540 C-2015	TDS	490		mg/L	P432926	
	SM 2540 D-2015	TSS	7	I	mg/L	P432927	
	SM 4500-F- C-2011	Fluoride	0.27		mg F/L	P432496	
2422979	EPA 350.1 Rev. 2.0	Ammonia-N	0.080		mg N/L	P432578	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P432729	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P432409	
	EPA 365.1 Rev. 2.0	Total-P	0.29		mg P/L	P432609	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P432468	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P432372

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432379

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432487

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432490

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432578

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432729

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432409

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432609

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

Reference Method: EPA 8270E
Batch ID: P432363

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: P432363

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
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	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'	0.80	U	ng/L
DDT-p,p'	0.80	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	0.90	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin	0.90	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432363

Component	Result	Code	Units
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	14	U	ng/L
Kepone	14	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P432363

Component	Result	Code	Units
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: P432363

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: P432714

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

Reference Method: SM 2540 C-2015

Batch ID: P432926

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015

Batch ID: P432927

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P432496

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P432468

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: P432372

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	103		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432379

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432487

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432490

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432578

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432729

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	93.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432409

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: P432609

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

Reference Method: EPA 8270E
Batch ID: P432363

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	66.5		P	30 - 96.0
Alpha-BHC	81.9		P	70 - 109
Alpha-Chlordane	85.2		P	45 - 107
Beta-BHC	94.9		P	64 - 138

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P432363

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	82.3		P	17 - 141
Bifenthrin	75.5		P	10 - 113
Carbophenothion	81.4		P	24 - 91.0
Chlorothalonil	87.7		P	26 - 180
Cis-Nonachlor	81.9		P	37 - 102
Cypermethrin	118		P	20 - 133
Dacthal	89.7		P	69 - 114
DDD-p,p'	78.1		P	42 - 105
DDE-p,p'	83.0		P	42 - 106
DDT-p,p'	102		P	42 - 107
Delta-BHC	89.7		P	67 - 144
Deltamethrin	112		P	15 - 149
Dichlobenil	70.2		P	46 - 117
Dicofol	73.2		P	34 - 114
Dieldrin	85.2		P	50 - 108
Endosulfan I	90.5		P	55 - 104
Endosulfan II	75.3		P	51 - 111
Endosulfan Sulfate	90.7		P	56 - 121
Endrin	82.7		P	10 - 106
Endrin Aldehyde	63.7		P	34 - 114
Endrin Ketone	98.0		P	63 - 177
Esfenvalerate	117		P	29 - 143
Ethalfuralin	75.7		P	46 - 96.0
Fenpropathrin	84.3		P	28 - 115
Gamma-BHC	96.3		P	65 - 121
Gamma-Chlordane	85.8		P	39 - 103
Heptachlor	84.9		P	39 - 94.0
Heptachlor Epoxide	92.0		P	54 - 104
Hexachlorobenzene	81.7		P	36 - 100
Kepone	62.5		P	10 - 225
Lambda-Cyhalothrin	111		P	10 - 135
Methoprene	81.7		P	10 - 109
Methoxychlor	78.0		P	52 - 112
MGK-264	93.2		P	44 - 117
Mirex	78.5		P	20 - 90.0
Oxychlordane	88.6		P	44 - 102
PCB-1016	80.2		P	45 - 107
PCB-1260	95.5		P	40 - 118
Permethrin	103		P	18 - 135
Phenothrin	71.1		P	10 - 102
Piperonyl Butoxide	99.1		P	28 - 156
Prallethrin	87.6		P	28 - 113
Tau-Fluvalinate	110		P	10 - 123
Tetramethrin	95.6		P	18 - 158
Trans-Nonachlor	83.6		P	39 - 104
Triclosan Methyl	90.3		P	54 - 108
Trifluralin	73.5		P	46 - 97.0

Reference Method: EPA 8276

Batch ID: P432363

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

Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P432363

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	91.8		P	52 - 117
Toxaphene	95.1		P	44 - 125

Reference Method: SM 2320 B-2011
Batch ID: P432714

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.0		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P432926

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	96.0		P	90 - 110

Reference Method: SM 2540 D-2015
Batch ID: P432927

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.3		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P432496

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P432468

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 300.0 Rev. 2.1
Batch ID: P432487

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422818	Chloride	101		P	90 - 110
2423168	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432490

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422818	Sulfate	99.8		P	90 - 110
2423168	Sulfate	94.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432578

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422821	Ammonia-N	97.0	97.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432729

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423147	Kjeldahl Nitrogen	93.2	89.5	P/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432409

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422820	NO2NO3-N	106	106	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P432363

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422984	Aldrin	52.2	53.6	P/P	24 - 81.0
2422984	Alpha-BHC	74.0	81.2	P/P	65 - 110
2422984	Alpha-Chlordane	74.0	75.3	P/P	43 - 119
2422984	Beta-BHC	80.5	80.8	P/P	54 - 165
2422984	Beta-Cyfluthrin	73.4	79.0	P/P	27 - 165
2422984	Bifenthrin	80.5	97.2	P/P	17 - 117
2422984	Carbophenothion	89.0	88.2	P/P	21 - 108
2422984	Chlorothalonil	99.3	108	P/P	10 - 255
2422984	Cis-Nonachlor	61.0	63.7	P/P	34 - 98.0
2422984	Cypermethrin	86.0	96.6	P/P	25 - 143
2422984	Dacthal	80.2	85.4	P/P	55 - 139
2422984	DDD-p,p'	65.2	65.0	P/P	30 - 109
2422984	DDE-p,p'	60.5	61.9	P/P	35 - 106
2422984	DDT-p,p'	98.4	109	P/F	41 - 101
2422984	Delta-BHC	93.1	104	P/P	58 - 165
2422984	Deltamethrin	100	98.2	P/P	10 - 194
2422984	Dichlobenil	42.0	42.3	P/P	22 - 114
2422984	Dicofol	69.8	77.6	P/P	17 - 133
2422984	Dieldrin	72.7	80.2	P/P	45 - 129
2422984	Endosulfan I	80.2	89.8	P/P	49 - 104

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P432363

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422984	Endosulfan II	57.8	55.1	P/P	37 - 117
2422984	Endosulfan Sulfate	61.6	62.7	P/P	38 - 128
2422984	Endrin	58.0	63.2	P/P	35 - 116
2422984	Endrin Aldehyde	38.7	36.9	P/P	19 - 108
2422984	Endrin Ketone	77.7	70.0	P/P	44 - 134
2422984	Esfenvalerate	101	110	P/P	27 - 176
2422984	Ethalfuralin	70.1	70.6	P/P	49 - 100
2422984	Fenpropathrin	75.8	82.8	P/P	34 - 117
2422984	Gamma-BHC	110	105	P/P	59 - 129
2422984	Gamma-Chlordane	81.1	81.5	P/P	33 - 107
2422984	Heptachlor	88.4	90.7	P/P	37 - 94.0
2422984	Heptachlor Epoxide	84.6	87.0	P/P	38 - 118
2422984	Hexachlorobenzene	77.1	75.7	P/P	35 - 97.0
2422984	Kepone	32.5	30.9	P/P	10 - 221
2422984	Lambda-Cyhalothrin	105	119	P/P	23 - 190
2422984	Methoprene	80.9	76.1	P/P	21 - 109
2422984	Methoxychlor	74.7	77.7	P/P	46 - 118
2422984	MGK-264	79.4	81.5	P/P	39 - 122
2422984	Mirex	43.4	64.7	P/P	25 - 90.0
2422984	Oxychlordane	95.3	89.1	P/P	42 - 100
2422984	Permethrin	87.4	109	P/P	33 - 181
2422984	Phenothrin	78.4	76.9	P/P	12 - 125
2422984	Piperonyl Butoxide	83.5	87.4	P/P	10 - 178
2422984	Prallethrin	77.1	73.9	P/P	24 - 122
2422984	Tau-Fluvalinate	110	118	P/P	13 - 151
2422984	Tetramethrin	91.0	98.2	P/P	16 - 172
2422984	Trans-Nonachlor	70.5	72.5	P/P	39 - 100
2422984	Triclosan Methyl	76.0	83.4	P/P	43 - 110
2422984	Trifluralin	66.6	66.3	P/P	45 - 94.0
2423116	PCB-1016	47.1	46.9	P/P	45 - 107
2423116	PCB-1260	40.5	45.2	P/P	40 - 112

Reference Method: EPA 8276

Batch ID: P432363

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2423116	Chlordane	48.3	53.2	P/P	43 - 123
2423116	Toxaphene	52.3	61.6	P/P	27 - 156

Reference Method: SM 4500-F- C-2011

Batch ID: P432496

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422819	Fluoride	104	104	P/P	94 - 106

Reference Method: SM 5310 B-2011

Batch ID: P432468

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2422807	Organic Carbon	94.3	93.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P432372

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422760	Color (true)	19.1	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P432379

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422772	Turbidity	8.10	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P432487

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422818	Chloride	0.0903	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P432578

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422821	Ammonia-N	0.0	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P432729

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423147	Kjeldahl Nitrogen	1.99	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P432409

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422820	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P432609

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422820	Total-P	0.547	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P432363

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422984	Aldrin	2.65	Spike	P	0 - 41
2422984	Alpha-BHC	9.24	Spike	P	0 - 25

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P432363

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422984	Alpha-Chlordane	1.80	Spike	P	0 - 32
2422984	Beta-BHC	0.345	Spike	P	0 - 33
2422984	Beta-Cyfluthrin	7.41	Spike	P	0 - 43
2422984	Bifenthrin	18.8	Spike	P	0 - 52
2422984	Carbophenothion	0.842	Spike	P	0 - 49
2422984	Chlorothalonil	7.91	Spike	P	0 - 82
2422984	Cis-Nonachlor	4.29	Spike	P	0 - 33
2422984	Cypermethrin	11.6	Spike	P	0 - 51
2422984	Dacthal	6.30	Spike	P	0 - 27
2422984	DDD-p,p'	0.312	Spike	P	0 - 39
2422984	DDE-p,p'	2.20	Spike	P	0 - 31
2422984	DDT-p,p'	10.2	Spike	P	0 - 29
2422984	Delta-BHC	10.9	Spike	P	0 - 35
2422984	Deltamethrin	1.95	Spike	P	0 - 100
2422984	Dichlobenil	0.838	Spike	P	0 - 40
2422984	Dicofol	10.5	Spike	P	0 - 37
2422984	Dieldrin	9.86	Spike	P	0 - 27
2422984	Endosulfan I	11.3	Spike	P	0 - 23
2422984	Endosulfan II	4.85	Spike	P	0 - 34
2422984	Endosulfan Sulfate	1.76	Spike	P	0 - 36
2422984	Endrin	8.53	Spike	P	0 - 45
2422984	Endrin Aldehyde	4.80	Spike	P	0 - 76
2422984	Endrin Ketone	10.4	Spike	P	0 - 43
2422984	Esfenvalerate	8.46	Spike	P	0 - 51
2422984	Ethalfuralin	0.682	Spike	P	0 - 22
2422984	Fenpropathrin	8.76	Spike	P	0 - 49
2422984	Gamma-BHC	4.23	Spike	P	0 - 28
2422984	Gamma-Chlordane	0.521	Spike	P	0 - 40
2422984	Heptachlor	2.64	Spike	P	0 - 29
2422984	Heptachlor Epoxide	2.86	Spike	P	0 - 33
2422984	Hexachlorobenzene	1.74	Spike	P	0 - 36
2422984	Kepone	5.18	Spike	P	0 - 85
2422984	Lambda-Cyhalothrin	12.9	Spike	P	0 - 55
2422984	Methoprene	6.09	Spike	P	0 - 53
2422984	Methoxychlor	3.88	Spike	P	0 - 50
2422984	MGK-264	2.71	Spike	P	0 - 43
2422984	Mirex	39.4	Spike	P	0 - 40
2422984	Oxychlordane	6.75	Spike	P	0 - 31
2422984	Permethrin	22.0	Spike	P	0 - 50
2422984	Phenothrin	2.03	Spike	P	0 - 58
2422984	Piperonyl Butoxide	4.10	Spike	P	0 - 100
2422984	Prallethrin	4.27	Spike	P	0 - 39
2422984	Tau-Fluvalinate	7.08	Spike	P	0 - 54
2422984	Tetramethrin	7.62	Spike	P	0 - 51
2422984	Trans-Nonachlor	2.78	Spike	P	0 - 39
2422984	Triclosan Methyl	9.25	Spike	P	0 - 31
2422984	Trifluralin	0.522	Spike	P	0 - 22
2423116	PCB-1016	0.506	Spike	P	0 - 25
2423116	PCB-1260	10.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P432363

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2423116	Chlordane	9.72	Spike	P	0 - 28
2423116	Toxaphene	16.3	Spike	P	0 - 27

Reference Method: SM 2320 B-2011

Batch ID: P432714

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422819	Total Alkalinity	0.0853	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015

Batch ID: P432926

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422814	TDS	6.38	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P432496

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422819	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011

Batch ID: P432468

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2422807	Organic Carbon	0.821	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2422984
Field Sample ID: G5SE0079

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	84.2	P	37 - 129
EPA 8270E	Decachlorobiphenyl	78.3	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	67.1	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	67.5	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	53.9	P	28 - 102
EPA 8276	PCNB	105	P	49 - 115

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A120300

Included Lab Sample IDs: 2422978

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	102	P/P	90 - 110
Sulfate	100	101	P/P	90 - 110

Reference Method: DEP SOP: NU-094-1

Run ID: A120325

Included Lab Sample IDs: 2422978

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	102	103	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A120327

Included Lab Sample IDs: 2422978

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A120346

Included Lab Sample IDs: 2422979

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

Reference Method: SM 5310 B-2011

Run ID: A120371

Included Lab Sample IDs: 2422979

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.8	97.2	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A120384

Included Lab Sample IDs: 2422978

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A120431

Included Lab Sample IDs: 2422979

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.5	98.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A120487

Included Lab Sample IDs: 2422979

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A120491
Included Lab Sample IDs: 2422984

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	103		P	80 - 120
Alpha-BHC	100		P	80 - 120
Alpha-Chlordane	100		P	80 - 120
Beta-BHC	104		P	80 - 120
Beta-Cyfluthrin	99.6		P	80 - 120
Bifenthrin	100		P	80 - 120
Carbophenothion	98.2		P	80 - 120
Chlorothalonil	95.8		P	80 - 120
Cis-Nonachlor	98.5		P	80 - 120
Cypermethrin	99.3		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	105		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	97.7		P	80 - 120
Delta-BHC	93.4		P	80 - 120
Deltamethrin	99.0		P	80 - 120
Dichlobenil	102		P	80 - 120
Dicofol	93.4		P	80 - 120
Dieldrin	99.1		P	80 - 120
Endosulfan I	94.9		P	80 - 120
Endosulfan II	106		P	80 - 120
Endosulfan Sulfate	107		P	80 - 120
Endrin	100		P	80 - 120
Endrin Aldehyde	91.6		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	97.1		P	80 - 120
Ethalfuralin	96.2		P	80 - 120
Fenpropathrin	99.1		P	80 - 120
Gamma-BHC	102		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	98.6		P	80 - 120
Heptachlor Epoxide	97.4		P	80 - 120
Hexachlorobenzene	100		P	80 - 120
Kepone	70.9*		F	80 - 120
Lambda-Cyhalothrin	110		P	80 - 120
Methoprene	100		P	80 - 120
Methoxychlor	103		P	80 - 120
MGK-264	98.7		P	80 - 120
Mirex	103		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	98.9		P	80 - 120
Phenothrin	99.9		P	80 - 120
Piperonyl Butoxide	84.6		P	80 - 120
Prallethrin	99.6		P	80 - 120
Tau-Fluvalinate	95.1		P	80 - 120
Tetramethrin	96.3		P	80 - 120
Trans-Nonachlor	100		P	80 - 120
Triclosan Methyl	95.0		P	80 - 120
Trifluralin	96.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A120497

Included Lab Sample IDs: 2422978

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	94.5	95.1	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A120510

Included Lab Sample IDs: 2422984

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.5		P	80 - 120
PCB-1260	97.3		P	80 - 120

Reference Method: EPA 8276

Run ID: A120521

Included Lab Sample IDs: 2422984

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.2		P	80 - 120
Toxaphene	91.0		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A120587

Included Lab Sample IDs: 2422979

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	102	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)	103				19.1	
EPA 180.1 Rev. 2.0	Turbidity	100				8.10	
EPA 300.0 Rev. 2.1	Chloride	103	101	102		0.0903	
	Sulfate	98.9	99.8	94.6			
EPA 350.1 Rev. 2.0	Ammonia-N	94.8	97.0	97.0			0.0
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	93.5	93.2	89.5			1.99
EPA 353.2 Rev. 2.0	NO2NO3-N	104	106	106			0.0
EPA 365.1 Rev. 2.0	Total-P	104					0.547
EPA 8270E	Aldrin	66.5	52.2	53.6			2.65
	Alpha-BHC	81.9	74.0	81.2			9.24
	Alpha-Chlordane	85.2	74.0	75.3			1.80
	Beta-BHC	94.9	80.5	80.8			0.345
	Beta-Cyfluthrin	82.3	73.4	79.0			7.41
	Bifenthrin	75.5	80.5	97.2			18.8
	Carbophenothion	81.4	89.0	88.2			0.842
	Chlorothalonil	87.7	99.3	108			7.91
	Cis-Nonachlor	81.9	61.0	63.7			4.29
	Cypermethrin	118	86.0	96.6			11.6
	Dacthal	89.7	80.2	85.4			6.30
	DDD-p,p'	78.1	65.2	65.0			0.312
	DDE-p,p'	83.0	60.5	61.9			2.20
	DDT-p,p'	102	98.4	109			10.2
	Delta-BHC	89.7	93.1	104			10.9
	Deltamethrin	112	100	98.2			1.95
	Dichlobenil	70.2	42.0	42.3			0.838
	Dicofol	73.2	69.8	77.6			10.5
	Dieldrin	85.2	72.7	80.2			9.86
	Endosulfan I	90.5	80.2	89.8			11.3
	Endosulfan II	75.3	57.8	55.1			4.85
	Endosulfan Sulfate	90.7	61.6	62.7			1.76
	Endrin	82.7	58.0	63.2			8.53
	Endrin Aldehyde	63.7	38.7	36.9			4.80
	Endrin Ketone	98.0	77.7	70.0			10.4
	Esfenvalerate	117	101	110			8.46
	Ethalfuralin	75.7	70.1	70.6			0.682
	Fenpropathrin	84.3	75.8	82.8			8.76
	Gamma-BHC	96.3	110	105			4.23
	Gamma-Chlordane	85.8	81.1	81.5			0.521
	Heptachlor	84.9	88.4	90.7			2.64
	Heptachlor Epoxide	92.0	84.6	87.0			2.86
	Hexachlorobenzene	81.7	77.1	75.7			1.74
	Kepone	62.5	32.5	30.9			5.18
	Lambda-Cyhalothrin	111	105	119			12.9
	Methoprene	81.7	80.9	76.1			6.09
	Methoxychlor	78.0	74.7	77.7			3.88
	MGK-264	93.2	79.4	81.5			2.71
	Mirex	78.5	43.4	64.7			39.4
	Oxychlordane	88.6	95.3	89.1			6.75
	PCB-1016	80.2	47.1	46.9			0.506
	PCB-1260	95.5	40.5	45.2			10.9
	Permethrin	103	87.4	109			22.0
	Phenothrin	71.1	78.4	76.9			2.03
	Piperonyl Butoxide	99.1	83.5	87.4			4.10
	Prallethrin	87.6	77.1	73.9			4.27

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
EPA 8270E	Tau-Fluvalinate	110	110	118		7.08
	Tetramethrin	95.6	91.0	98.2		7.62
	Trans-Nonachlor	83.6	70.5	72.5		2.78
	Triclosan Methyl	90.3	76.0	83.4		9.25
	Trifluralin	73.5	66.6	66.3		0.522
EPA 8276	Chlordane	91.8	48.3	53.2		9.72
	Toxaphene	95.1	52.3	61.6		16.3
SM 2320 B-2011	Total Alkalinity	97.0			0.0853	
SM 2540 C-2015	TDS	96.0			6.38	
SM 2540 D-2015	TSS	93.3				
SM 4500-F- C-2011	Fluoride	102	104	104		0.0
SM 5310 B-2011	Organic Carbon	94.6	94.3	93.4		0.821

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2422978
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2422978
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2422978
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2422978
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2422979
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2422979
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2422979
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2422979
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2422984
EPA 8270E	PCBs in water matrices by GC/MS/MS	2422984
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2422984
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2422978
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2422978
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2422978
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2422978
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2422979

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	07/12/2023			07/12/2023 15:32	Alexis Price	2422978
EPA 180.1 Rev. 2.0	07/12/2023			07/12/2023 12:57	Alexis Price	2422978
EPA 300.0 Rev. 2.1	07/12/2023			07/14/2023 04:27	James L Waggeberby	2422978
EPA 350.1 Rev. 2.0	07/12/2023			07/17/2023 13:54	Ping Hua	2422979
EPA 351.2 Rev. 2.0	07/12/2023	07/20/2023 13:30	Samantha L Bates	07/24/2023 15:46	Samantha L Bates	2422979
EPA 353.2 Rev. 2.0	07/12/2023			07/13/2023 11:17	Beverly Y. Sanders	2422979
EPA 365.1 Rev. 2.0	07/12/2023	07/18/2023 13:58	Alexis Price	07/19/2023 12:41	Simonne.V. Calhoun	2422979
EPA 8270E	07/12/2023	07/14/2023 08:30	Rasheda Ghaffari	07/17/2023 21:00	Michael Poppell	2422984
	07/12/2023	07/14/2023 08:30	Rasheda Ghaffari	07/19/2023 22:08	Lipi Saha	2422984
EPA 8276	07/12/2023	07/14/2023 08:30	Rasheda Ghaffari	07/20/2023 12:52	Arthur Maknenko	2422984
SM 2320 B-2011	07/12/2023			07/18/2023 16:35	Dale L. Simmons	2422978
SM 2540 C-2015	07/12/2023			07/17/2023 15:46	Yijie Li	2422978
SM 2540 D-2015	07/12/2023			07/17/2023 15:46	Yijie Li	2422978
SM 4500-F- C-2011	07/12/2023			07/14/2023 08:31	Dale L. Simmons	2422978
SM 5310 B-2011	07/12/2023			07/14/2023 01:00	Elise M. Gillis	2422979