

Chemical Analysis Report

SO-DIST-2024-04-26-01

Florida DEP Laboratory
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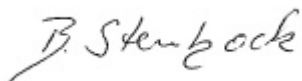
Event Description: **2024 SMP : LaBella-Ella-Ella**
Request ID: **RQ-2024-04-29-15**
Customer: **SO-DIST**
Project ID: **SMP**

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Date Certified: 24-MAY-2024 17:05



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: CALOOSA ABOVE BRIDGE ST

Collection Date/Time: 04/25/2024 08:35

Field ID: G3SD0178					Matrix: W-SURF-FRH		
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485125	DEP SOP: NU-094-1	Color (true)	52		PCU	P444861	
	EPA 180.1 Rev. 2.0	Turbidity	4.4	A	NTU	P444866	
	EPA 300.0 Rev. 2.1	Chloride	57		mg Cl/L	P445270	
		Sulfate	23		mg SO4/L	P445275	
	SM 2320 B-2011	Total Alkalinity	113		mg CaCO3/L	P445056	RPD
	SM 2540 C-2015	TDS	275		mg/L	P445463	
	SM 2540 D-2015	TSS	7	I	mg/L	P445492	
	SM 4500-F- C-2011	Fluoride	0.18		mg F/L	P445060	
2485128	EPA 350.1 Rev. 2.0	Ammonia-N	0.049		mg N/L	P445066	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.4		mg N/L	P444921	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.080		mg N/L	P445455	
	EPA 365.1 Rev. 2.0	Total-P	0.068		mg P/L	P444947	
	SM 5310 B-2014	Organic Carbon	16		mg C/L	P445149	

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: FB

Collection Date/Time: 04/25/2024 08:40

Field ID: FB_04252024				Matrix: W-FIELD-BK			
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485131	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P444861	RPD
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P444866	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P445270	
		Sulfate	0.20	U	mg SO4/L	P445275	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P445056	
	SM 2540 C-2015	TDS	15	U	mg/L	P445463	
	SM 2540 D-2015	TSS	2	U	mg/L	P445492	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P445060	
2485132	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P445066	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P444921	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P445455	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P444947	
	SM 5310 B-2014	Organic Carbon	0.50	U	mg C/L	P445149	

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: CALOOSAHATCHEE RIVER ABOVE S 78 Collection Date/Time: 04/25/2024 09:05

Field ID: G3SD0150 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485126	DEP SOP: NU-094-1	Color (true)	51		PCU	P444861	
	EPA 180.1 Rev. 2.0	Turbidity	8.9		NTU	P444866	
	EPA 300.0 Rev. 2.1	Chloride	57		mg Cl/L	P445270	
		Sulfate	24		mg SO4/L	P445275	
	SM 2320 B-2011	Total Alkalinity	109		mg CaCO3/L	P445056	RPD
	SM 2540 C-2015	TDS	268		mg/L	P445463	
	SM 2540 D-2015	TSS	12		mg/L	P445492	
	SM 4500-F- C-2011	Fluoride	0.18		mg F/L	P445060	
2485129	EPA 350.1 Rev. 2.0	Ammonia-N	0.081		mg N/L	P445066	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P444921	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.093		mg N/L	P445455	
	EPA 365.1 Rev. 2.0	Total-P	0.061		mg P/L	P444947	
	SM 5310 B-2014	Organic Carbon	15		mg C/L	P445149	

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: CYPRESS BRANCH AT SR78

Collection Date/Time: 04/25/2024 10:20

Field ID: G3SD0223

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485147	EPA 200.7 Rev. 4.4	Calcium	80.8		mg/L	P444929	
		Iron	510		ug/L	P444929	
		Magnesium	9.94		mg/L	P444929	
		Potassium	3.3		mg/L	P444929	
		Sodium	25.9		mg/L	P444929	
		Strontium	403		ug/L	P444929	
		Tin	3.0	U	ug/L	P444929	
		Titanium	0.81	I	ug/L	P444929	
		Vanadium	2.0	U	ug/L	P444929	
	EPA 200.8 Rev. 5.4	Zinc	8.5	I	ug/L	P444929	
		Aluminum	43		ug/L	P444929	
		Antimony	0.090	I	ug/L	P444929	
		Arsenic	0.73		ug/L	P444929	
		Barium	18.6		ug/L	P444929	
		Beryllium	0.012	I	ug/L	P444929	
		Boron	28.8		ug/L	P444929	
		Cadmium	0.020	U	ug/L	P444929	
		Chromium	0.56	I	ug/L	P444929	
		Cobalt	0.109		ug/L	P444929	
		Copper	0.40	U	ug/L	P444929	
		Lead	0.20	U	ug/L	P444929	
		Manganese	13.0		ug/L	P444929	
		Molybdenum	0.67		ug/L	P444929	
		Nickel	0.50	U	ug/L	P444929	
		Selenium	0.20	U	ug/L	P444929	
		Silver	0.010	U	ug/L	P444929	
		Thallium	0.10	U	ug/L	P444929	
	SM 2340 B-2011	Hardness	243		mg/L	P444929	

Ref. Method and Comment:

EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: POLLYWOG CREEK AT SR 78

Collection Date/Time: 04/25/2024 10:45

Field ID: G3SD0098				Matrix: W-SURF-FRH			
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485148	EPA 200.7 Rev. 4.4	Calcium	18.8		mg/L	P444929	
		Iron	1.54E+03		ug/L	P444929	
		Magnesium	6.40		mg/L	P444929	
		Potassium	1.6		mg/L	P444929	
		Sodium	15.0		mg/L	P444929	
		Strontium	171		ug/L	P444929	
		Tin	3.0	U	ug/L	P444929	
		Titanium	0.75	U	ug/L	P444929	
		Vanadium	2.7	I	ug/L	P444929	
		Zinc	18	I	ug/L	P444929	
	EPA 200.8 Rev. 5.4	Aluminum	73		ug/L	P444929	
		Antimony	0.075	I	ug/L	P444929	
		Arsenic	0.54		ug/L	P444929	
		Barium	13.3		ug/L	P444929	
		Beryllium	0.037	I	ug/L	P444929	
		Boron	33.0		ug/L	P444929	
		Cadmium	0.020	U	ug/L	P444929	
		Chromium	1.3	I	ug/L	P444929	
		Cobalt	0.205		ug/L	P444929	
		Copper	0.40	U	ug/L	P444929	
		Lead	0.20	U	ug/L	P444929	
		Manganese	18.0		ug/L	P444929	
		Molybdenum	0.40	I	ug/L	P444929	
		Nickel	1.0	I	ug/L	P444929	
		Selenium	0.20	U	ug/L	P444929	
		Silver	0.010	U	ug/L	P444929	
		Thallium	0.10	U	ug/L	P444929	
	SM 2340 B-2011	Hardness	73.2		mg/L	P444929	

Ref. Method and Comment:
 EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: JACKS BRANCH

Collection Date/Time: 04/25/2024 11:20

Field ID: G3SD0176					Matrix: W-SURF-FRH			
Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2485127	DEP SOP: NU-094-1	Color (true)	23		PCU	P444861		
	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P444866		
	EPA 300.0 Rev. 2.1	Chloride	67		mg Cl/L	P445270		
		Sulfate	23		mg SO4/L	P445275		
	SM 2320 B-2011	Total Alkalinity	271		mg CaCO3/L	P445056	RPD	
	SM 2540 C-2015	TDS	429		mg/L	P445463		
	SM 2540 D-2015	TSS	11		mg/L	P445492		
	SM 4500-F- C-2011	Fluoride	0.23		mg F/L	P445060		
2485130	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P445066		
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.51		mg N/L	P444921		
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P445455		
	EPA 365.1 Rev. 2.0	Total-P	0.014		mg P/L	P444947		
	SM 5310 B-2014	Organic Carbon	8.6		mg C/L	P445149		

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: BEE BRANCH AT CR78

Collection Date/Time: 04/25/2024 11:20

Field ID: G3SD0226

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485142	EPA 8270E	Aldrin	0.74	U	ng/L	P444846	
		Alpha-BHC	0.11	U	ng/L	P444846	
		Alpha-Chlordane	0.23	U	ng/L	P444846	
		PCB-1016	2.3	U	ng/L	P444846	
		Beta-BHC	0.11	U	ng/L	P444846	
		PCB-1221	2.3	U	ng/L	P444846	
		Beta-Cyfluthrin	1.4	U	ng/L	P444846	
		PCB-1232	2.3	U	ng/L	P444846	
		Bifenthrin	0.57	U	ng/L	P444846	
		PCB-1242	2.3	U	ng/L	P444846	
		PCB-1248	2.3	U	ng/L	P444846	
		Chlorothalonil	4.1	U	ng/L	P444846	
		PCB-1254	2.3	U	ng/L	P444846	
		Cis-Nonachlor	0.23	U	ng/L	P444846	
		PCB-1260	2.3	U	ng/L	P444846	
		Cypermethrin	1.7	UJ	ng/L	P444846	LCS, MS
		Dacthal	0.17	U	ng/L	P444846	
		DDD-p,p'	0.28	U	ng/L	P444846	
		DDE-p,p'	0.23	U	ng/L	P444846	
		DDT-p,p'	0.91	U	ng/L	P444846	
		Delta-BHC	0.45	U	ng/L	P444846	
		Deltamethrin	1.4	UJ	ng/L	P444846	LCS, MS
		Dichlobenil	0.28	U	ng/L	P444846	
		Dicofol	1.4	U	ng/L	P444846	
		Dieldrin	0.45	U	ng/L	P444846	
		Endosulfan I	0.45	U	ng/L	P444846	
		Endosulfan II	1.0	U	ng/L	P444846	
		Endosulfan Sulfate	0.34	U	ng/L	P444846	
		Endrin	1.0	U	ng/L	P444846	
		Endrin Aldehyde	0.85	U	ng/L	P444846	
		Endrin Ketone	0.45	U	ng/L	P444846	
		Esfenvalerate	0.85	UJ	ng/L	P444846	LCS, MS
		Ethalfuralin	0.17	U	ng/L	P444846	
		Fenpropathrin	0.28	U	ng/L	P444846	
		Gamma-BHC	0.14	U	ng/L	P444846	
		Gamma-Chlordane	0.23	U	ng/L	P444846	
		Heptachlor	0.23	U	ng/L	P444846	
		Heptachlor Epoxide	0.28	U	ng/L	P444846	
		Hexachlorobenzene**	1.1	U	ng/L	P444846	
		Kepone	15	U	ng/L	P444846	
		Lambda-Cyhalothrin	0.85	U	ng/L	P444846	
		Methoprene	0.85	U	ng/L	P444846	
		Methoxychlor	0.34	U	ng/L	P444846	
		MGK-264	0.23	U	ng/L	P444846	

Field ID: G3SD0226

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2485142	EPA 8270E	Mirex	0.40	U	ng/L	P444846	
		Oxychlordane	0.34	U	ng/L	P444846	
		Permethrin	1.8	U	ng/L	P444846	
		Phenothrin	1.0	U	ng/L	P444846	
		Piperonyl Butoxide	0.17	U	ng/L	P444846	
		Prallethrin	2.3	U	ng/L	P444846	
		Tau-Fluvalinate	0.28	UJ	ng/L	P444846	LCS, MS
		Tetramethrin	0.85	U	ng/L	P444846	
		Trans-Nonachlor	0.23	U	ng/L	P444846	
		Triclosan Methyl	0.17	U	ng/L	P444846	
		Trifluralin	0.23	U	ng/L	P444846	
		Chlordane	2.3	U	ng/L	P444846	
		Toxaphene	17	U	ng/L	P444846	
2485149	EPA 200.7 Rev. 4.4	Calcium	109		mg/L	P444929	
		Iron	4.17E+03		ug/L	P444929	
		Magnesium	12.6		mg/L	P444929	
		Potassium	9.6		mg/L	P444929	
		Sodium	54.7		mg/L	P444929	
		Strontium	838		ug/L	P444929	
		Tin	3.0	U	ug/L	P444929	
		Titanium	2.9	I	ug/L	P444929	
		Vanadium	5.7	I	ug/L	P444929	
		Zinc	20	I	ug/L	P444929	
	EPA 200.8 Rev. 5.4	Aluminum	605		ug/L	P444929	
		Antimony	0.36		ug/L	P444929	
		Arsenic	2.62		ug/L	P444929	
		Barium	36.6		ug/L	P444929	
		Beryllium	0.073		ug/L	P444929	
		Boron	54.5		ug/L	P444929	
		Cadmium	0.026	I	ug/L	P444929	
		Chromium	1.7		ug/L	P444929	
		Cobalt	0.466		ug/L	P444929	
		Copper	0.84		ug/L	P444929	
		Lead	0.98		ug/L	P444929	
		Manganese	28.3		ug/L	P444929	
		Molybdenum	3.60		ug/L	P444929	
		Nickel	3.6		ug/L	P444929	
		Selenium	0.20	U	ug/L	P444929	
	SM 2340 B-2011	Silver	0.010	U	ug/L	P444929	
		Thallium	0.10	U	ug/L	P444929	
		Hardness	325		mg/L	P444929	

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for manganese are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P444861

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444866

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P444929

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: P444929

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: P445270

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: P445275

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445066

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444921

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445455

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444947

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

Reference Method: EPA 8270E
Batch ID: P444846

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P444846

Component	Result	Code	Units
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276

Batch ID: P444846

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

Reference Method: SM 2320 B-2011

Batch ID: P445056

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

Reference Method: SM 2540 C-2015

Batch ID: P445463

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 D-2015
Batch ID: P445492

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P445060

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2014
Batch ID: P445149

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: P444861

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.6		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444866

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P444929

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	107		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	98.9		P	85 - 115
Sodium	102		P	85 - 115
Strontium	101		P	85 - 115
Tin	99.1		P	85 - 115
Titanium	101		P	85 - 115
Vanadium	96.3		P	85 - 115
Zinc	99.4		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P444929

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	96.6		P	85 - 115
Antimony	98.1		P	85 - 115
Arsenic	93.7		P	85 - 115
Barium	99.5		P	85 - 115
Beryllium	94.6		P	85 - 115
Boron	101		P	85 - 115
Cadmium	97.0		P	85 - 115
Chromium	94.0		P	85 - 115
Cobalt	92.9		P	85 - 115
Copper	90.0		P	85 - 115
Lead	95.9		P	85 - 115
Manganese	96.3		P	85 - 115
Molybdenum	93.4		P	85 - 115
Nickel	91.2		P	85 - 115
Selenium	97.3		P	85 - 115
Silver	110		P	85 - 115
Thallium	93.6		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445270

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445275

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445066

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444921

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.6		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445455

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444947

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

Reference Method: EPA 8270E
Batch ID: P444846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	61.2		P	30 - 96.0
Alpha-BHC	93.8		P	70 - 109
Alpha-Chlordane	81.1		P	45 - 107
Beta-BHC	112		P	64 - 138
Beta-Cyfluthrin	139		P	17 - 141
Bifenthrin	99.2		P	10 - 113
Chlorothalonil	122		P	26 - 180
Cis-Nonachlor	82.3		P	37 - 102
Cypermethrin	145		F	20 - 133
Dacthal	91.8		P	69 - 114
DDD-p,p'	82.4		P	42 - 105
DDE-p,p'	86.6		P	42 - 106
DDT-p,p'	82.6		P	42 - 107
Delta-BHC	128		P	67 - 144
Deltamethrin	248		F	15 - 149
Dichlobenil	55.5		P	46 - 117
Dicofol	78.2		P	34 - 114
Dieldrin	81.8		P	50 - 108
Endosulfan I	92.4		P	55 - 104
Endosulfan II	92.5		P	51 - 111
Endosulfan Sulfate	102		P	56 - 121
Endrin	88.6		P	10 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P444846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Aldehyde	63.8		P	34 - 114
Endrin Ketone	86.3		P	63 - 177
Esfenvalerate	196		F	29 - 143
Ethalfuralin	82.0		P	46 - 96.0
Fenpropathrin	97.8		P	28 - 115
Gamma-BHC	84.2		P	65 - 121
Gamma-Chlordane	87.0		P	39 - 103
Heptachlor	78.0		P	39 - 94.0
Heptachlor Epoxide	86.2		P	54 - 104
Hexachlorobenzene	84.4		P	36 - 100
Kepone	113		P	10 - 225
Lambda-Cyhalothrin	116		P	10 - 135
Methoprene	84.2		P	10 - 109
Methoxychlor	103		P	52 - 112
MGK-264	73.8		P	44 - 117
Mirex	85.8		P	20 - 90.0
Oxychlordane	81.0		P	44 - 102
PCB-1016	51.8		P	45 - 107
PCB-1260	77.1		P	40 - 118
Permethrin	128		P	18 - 135
Phenothrin	83.4		P	10 - 102
Piperonyl Butoxide	85.8		P	28 - 156
Prallethrin	78.3		P	28 - 113
Tau-Fluvalinate	183		F	10 - 123
Tetramethrin	87.4		P	18 - 158
Trans-Nonachlor	89.9		P	39 - 104
Triclosan Methyl	91.2		P	54 - 108
Trifluralin	80.9		P	46 - 97.0

Reference Method: EPA 8276
Batch ID: P444846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	75.7		P	52 - 117
Toxaphene	74.3		P	44 - 125

Reference Method: SM 2320 B-2011
Batch ID: P445056

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.2		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P445463

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	93.6		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P445492

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

Reference Method: SM 2540 D-2015
Batch ID: P445492

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	102		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P445060

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

Reference Method: SM 5310 B-2014
Batch ID: P445149

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P444929

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484804	Calcium	104		P	80 - 120
2484804	Iron	105	105	P/P	80 - 120
2484804	Magnesium	104		P	80 - 120
2484804	Potassium	101		P	80 - 120
2484804	Sodium	102		P	80 - 120
2484804	Strontium	99.9	99.8	P/P	80 - 120
2484804	Tin	97.7	98.6	P/P	80 - 120
2484804	Titanium	102	103	P/P	80 - 120
2484804	Vanadium	100	101	P/P	80 - 120
2484804	Zinc	99.5	99.2	P/P	80 - 120
2485372	Calcium	104		P	80 - 120
2485372	Iron	107		P	80 - 120
2485372	Magnesium	104		P	80 - 120
2485372	Potassium	103		P	80 - 120
2485372	Sodium	103		P	80 - 120
2485372	Strontium	99.4		P	80 - 120
2485372	Tin	98.0		P	80 - 120
2485372	Titanium	102		P	80 - 120
2485372	Vanadium	97.8		P	80 - 120
2485372	Zinc	98.9		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P444929

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484804	Aluminum	95.9	94.3	P/P	80 - 120
2484804	Antimony	100	99.4	P/P	80 - 120
2484804	Arsenic	97.1	96.6	P/P	80 - 120
2484804	Barium	101	101	P/P	80 - 120
2484804	Beryllium	99.4	99.2	P/P	80 - 120
2484804	Boron	101	98.9	P/P	80 - 120
2484804	Cadmium	98.1	98.8	P/P	80 - 120
2484804	Chromium	94.2	92.9	P/P	80 - 120
2484804	Cobalt	92.6	91.4	P/P	80 - 120
2484804	Copper	90.0	88.8	P/P	80 - 120
2484804	Lead	98.1	96.6	P/P	80 - 120
2484804	Molybdenum	96.8	96.8	P/P	80 - 120
2484804	Nickel	91.5	90.0	P/P	80 - 120
2484804	Selenium	97.7	96.5	P/P	80 - 120
2484804	Silver	110	110	P/P	80 - 120
2484804	Thallium	97.8	96.7	P/P	80 - 120
2485372	Aluminum	93.5		P	80 - 120
2485372	Antimony	99.1		P	80 - 120
2485372	Arsenic	94.7		P	80 - 120
2485372	Barium	96.6		P	80 - 120
2485372	Beryllium	92.5		P	80 - 120
2485372	Boron	101		P	80 - 120
2485372	Cadmium	97.6		P	80 - 120
2485372	Chromium	93.6		P	80 - 120
2485372	Cobalt	91.4		P	80 - 120
2485372	Copper	88.6		P	80 - 120
2485372	Lead	95.5		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P444929

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485372	Manganese	95.0		P	80 - 120
2485372	Molybdenum	95.2		P	80 - 120
2485372	Nickel	89.4		P	80 - 120
2485372	Selenium	95.1		P	80 - 120
2485372	Silver	108		P	80 - 120
2485372	Thallium	94.8		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445270

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485165	Chloride	103		P	90 - 110
2485193	Chloride	106		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445275

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485165	Sulfate	103		P	90 - 110
2485193	Sulfate	107		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445066

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484924	Ammonia-N	96.8	98.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444921

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484880	Kjeldahl Nitrogen	100	90.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445455

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485128	NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444947

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485160	Total-P	106	105	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P444846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484861	Aldrin	68.1	67.3	P/P	24 - 81.0
2484861	Alpha-BHC	92.2	92.7	P/P	65 - 110
2484861	Alpha-Chlordane	73.9	86.1	P/P	43 - 119

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P444846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2484861	Beta-BHC	106	105	P/P	54 - 165
2484861	Beta-Cyfluthrin	136	153	P/P	27 - 165
2484861	Bifenthrin	93.1	102	P/P	17 - 117
2484861	Chlorothalonil	172	231	P/P	10 - 255
2484861	Cis-Nonachlor	76.0	73.0	P/P	34 - 98.0
2484861	Cypermethrin	147	174	F/F	25 - 143
2484861	Dacthal	87.6	93.2	P/P	55 - 139
2484861	DDD-p,p'	79.4	74.9	P/P	30 - 109
2484861	DDE-p,p'	74.7	75.6	P/P	35 - 106
2484861	DDT-p,p'	81.4	87.4	P/P	41 - 101
2484861	Delta-BHC	123	149	P/P	58 - 165
2484861	Deltamethrin	184	227	P/F	10 - 194
2484861	Dichlobenil	63.5	55.1	P/P	22 - 114
2484861	Dicofol	71.9	65.7	P/P	17 - 133
2484861	Dieldrin	75.5	77.0	P/P	45 - 129
2484861	Endosulfan I	87.9	103	P/P	49 - 104
2484861	Endosulfan II	90.4	104	P/P	37 - 117
2484861	Endosulfan Sulfate	89.3	95.2	P/P	38 - 128
2484861	Endrin	82.3	80.0	P/P	35 - 116
2484861	Endrin Aldehyde	64.2	77.3	P/P	19 - 108
2484861	Endrin Ketone	81.8	87.7	P/P	44 - 134
2484861	Esfenvalerate	172	206	P/F	27 - 176
2484861	Ethalfuralin	80.7	71.8	P/P	49 - 100
2484861	Fenpropathrin	93.4	100	P/P	34 - 117
2484861	Gamma-BHC	85.4	90.4	P/P	59 - 129
2484861	Gamma-Chlordane	78.4	86.8	P/P	33 - 107
2484861	Heptachlor	72.7	71.7	P/P	37 - 94.0
2484861	Heptachlor Epoxide	80.7	85.8	P/P	38 - 118
2484861	Hexachlorobenzene	74.7	63.8	P/P	35 - 97.0
2484861	Kepone	95.4	95.8	P/P	10 - 221
2484861	Lambda-Cyhalothrin	136	149	P/P	23 - 190
2484861	Methoprene	87.9	97.9	P/P	21 - 109
2484861	Methoxychlor	89.3	106	P/P	46 - 118
2484861	MGK-264	87.3	95.7	P/P	39 - 122
2484861	Mirex	74.7	85.2	P/P	25 - 90.0
2484861	Oxychlordane	79.2	89.6	P/P	42 - 100
2484861	Permethrin	130	142	P/P	33 - 181
2484861	Phenothrin	113	117	P/P	12 - 125
2484861	Piperonyl Butoxide	79.8	78.8	P/P	10 - 178
2484861	Prallethrin	96.5	97.0	P/P	24 - 122
2484861	Tau-Fluvalinate	196	224	F/F	13 - 151
2484861	Tetramethrin	104	109	P/P	16 - 172
2484861	Trans-Nonachlor	77.5	90.2	P/P	39 - 100
2484861	Triclosan Methyl	83.2	88.5	P/P	43 - 110
2484861	Trifluralin	73.5	69.7	P/P	45 - 94.0
2485219	PCB-1016	62.1	65.1	P/P	45 - 107
2485219	PCB-1260	84.6	91.3	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P444846

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

Reference Method: EPA 8276
Batch ID: P444846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485219	Chlordane	79.6	87.9	P/P	43 - 123
2485219	Toxaphene	89.7	94.3	P/P	27 - 156

Reference Method: SM 4500-F- C-2011
Batch ID: P445060

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485163	Fluoride	103	103	P/P	94 - 106

Reference Method: SM 5310 B-2014
Batch ID: P445149

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2485128	Organic Carbon	99.2	102	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P444861

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485068	Color (true)	0.832	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P444866

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485125	Turbidity	5.39	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P444929

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484804	Calcium	0.0242	Spike	P	0 - 20
2484804	Iron	0.0161	Spike	P	0 - 20
2484804	Magnesium	0.355	Spike	P	0 - 20
2484804	Potassium	0.803	Spike	P	0 - 20
2484804	Sodium	0.585	Spike	P	0 - 20
2484804	Strontium	0.0395	Spike	P	0 - 20
2484804	Tin	0.924	Spike	P	0 - 20
2484804	Titanium	0.619	Spike	P	0 - 20
2484804	Vanadium	0.537	Spike	P	0 - 20
2484804	Zinc	0.250	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P444929

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484804	Aluminum	1.53	Spike	P	0 - 20
2484804	Antimony	0.617	Spike	P	0 - 20
2484804	Arsenic	0.513	Spike	P	0 - 20
2484804	Barium	0.387	Spike	P	0 - 20
2484804	Beryllium	0.214	Spike	P	0 - 20
2484804	Boron	1.79	Spike	P	0 - 20
2484804	Cadmium	0.697	Spike	P	0 - 20
2484804	Chromium	1.44	Spike	P	0 - 20
2484804	Cobalt	1.33	Spike	P	0 - 20
2484804	Copper	1.33	Spike	P	0 - 20
2484804	Lead	1.46	Spike	P	0 - 20
2484804	Manganese	1.56	Spike	P	0 - 20
2484804	Molybdenum	0.00116	Spike	P	0 - 20
2484804	Nickel	1.61	Spike	P	0 - 20
2484804	Selenium	1.23	Spike	P	0 - 20
2484804	Silver	0.0790	Spike	P	0 - 20
2484804	Thallium	1.09	Spike	P	0 - 20

Quality Assurance Report

Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445270

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485165	Chloride	0.0398	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P445275

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485165	Sulfate	0.762	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P445066

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484924	Ammonia-N	1.50	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P444921

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484880	Kjeldahl Nitrogen	5.57	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P445455

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485128	NO2NO3-N	1.42	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P444947

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485160	Total-P	1.19	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P444846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484861	Aldrin	1.20	Spike	P	0 - 41
2484861	Alpha-BHC	0.566	Spike	P	0 - 25
2484861	Alpha-Chlordane	15.3	Spike	P	0 - 32
2484861	Beta-BHC	1.12	Spike	P	0 - 33
2484861	Beta-Cyfluthrin	12.1	Spike	P	0 - 43
2484861	Bifenthrin	9.66	Spike	P	0 - 52
2484861	Chlorothalonil	29.2	Spike	P	0 - 82
2484861	Cis-Nonachlor	3.93	Spike	P	0 - 33
2484861	Cypermethrin	16.5	Spike	P	0 - 51

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P444846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484861	Dacthal	6.20	Spike	P	0 - 27
2484861	DDD-p,p'	5.85	Spike	P	0 - 39
2484861	DDE-p,p'	1.14	Spike	P	0 - 31
2484861	DDT-p,p'	7.08	Spike	P	0 - 29
2484861	Delta-BHC	19.4	Spike	P	0 - 35
2484861	Deltamethrin	21.1	Spike	P	0 - 100
2484861	Dichlobenil	14.3	Spike	P	0 - 40
2484861	Dicofol	8.91	Spike	P	0 - 37
2484861	Dieldrin	2.01	Spike	P	0 - 27
2484861	Endosulfan I	15.4	Spike	P	0 - 23
2484861	Endosulfan II	13.9	Spike	P	0 - 34
2484861	Endosulfan Sulfate	6.37	Spike	P	0 - 36
2484861	Endrin	2.88	Spike	P	0 - 45
2484861	Endrin Aldehyde	18.5	Spike	P	0 - 76
2484861	Endrin Ketone	7.00	Spike	P	0 - 43
2484861	Esfenvalerate	18.3	Spike	P	0 - 51
2484861	Ethalfuralin	11.7	Spike	P	0 - 22
2484861	Fenpropathrin	7.22	Spike	P	0 - 49
2484861	Gamma-BHC	5.66	Spike	P	0 - 28
2484861	Gamma-Chlordane	10.2	Spike	P	0 - 40
2484861	Heptachlor	1.39	Spike	P	0 - 29
2484861	Heptachlor Epoxide	6.13	Spike	P	0 - 33
2484861	Hexachlorobenzene	15.8	Spike	P	0 - 36
2484861	Kepone	0.421	Spike	P	0 - 85
2484861	Lambda-Cyhalothrin	9.17	Spike	P	0 - 55
2484861	Methoprene	10.7	Spike	P	0 - 53
2484861	Methoxychlor	17.4	Spike	P	0 - 50
2484861	MGK-264	9.13	Spike	P	0 - 43
2484861	Mirex	13.1	Spike	P	0 - 40
2484861	Oxychlordane	12.4	Spike	P	0 - 31
2484861	Permethrin	8.50	Spike	P	0 - 50
2484861	Phenothrin	3.22	Spike	P	0 - 58
2484861	Piperonyl Butoxide	1.30	Spike	P	0 - 100
2484861	Prallethrin	0.587	Spike	P	0 - 39
2484861	Tau-Fluvalinate	13.4	Spike	P	0 - 54
2484861	Tetramethrin	4.91	Spike	P	0 - 51
2484861	Trans-Nonachlor	15.2	Spike	P	0 - 39
2484861	Triclosan Methyl	6.12	Spike	P	0 - 31
2484861	Trifluralin	5.25	Spike	P	0 - 22
2485219	PCB-1016	4.65	Spike	P	0 - 25
2485219	PCB-1260	7.66	Spike	P	0 - 30

Reference Method: EPA 8276

Batch ID: P444846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485219	Chlordane	9.94	Spike	P	0 - 28
2485219	Toxaphene	5.00	Spike	P	0 - 27

Quality Assurance Report
Precision

Reference Method: SM 2320 B-2011
Batch ID: P445056

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485163	Total Alkalinity	8.93	Sample	F	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P445463

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2484811	TDS	7.35	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P445060

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485163	Fluoride	0.495	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2014
Batch ID: P445149

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2485128	Organic Carbon	1.98	Spike	P	0 - 15

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

Quality Assurance Report

Surrogates

Lab Sample ID: 2485142

Field Sample ID: G3SD0226

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	104	P	37 - 129
EPA 8270E	Decachlorobiphenyl	106	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	64.6	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	59.1	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	48.8	P	23 - 110
EPA 8276	PCNB	84.5	P	51 - 130

Quality Assurance Report

Calibration Verification

Reference Method: DEP SOP: NU-094-1

Run ID: A125553

Included Lab Sample IDs: 2485125, 2485126, 2485127, 2485131

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.9	99.7	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A125555

Included Lab Sample IDs: 2485125, 2485126, 2485127, 2485131

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	99.5	P/P	95 - 105

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A125600

Included Lab Sample IDs: 2485147, 2485148, 2485149

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	104	105	P/P	90 - 110
Calcium	104	104	P/P	90 - 110
Iron	102	103	P/P	90 - 110
Iron	103	102	P/P	90 - 110
Magnesium	103	104	P/P	90 - 110
Magnesium	103	103	P/P	90 - 110
Potassium	103	103	P/P	90 - 110
Potassium	103	103	P/P	90 - 110
Sodium	103	104	P/P	90 - 110
Sodium	103	103	P/P	90 - 110
Strontium	101	100	P/P	90 - 110
Strontium	103	101	P/P	90 - 110
Tin	99.0	99.8	P/P	90 - 110
Tin	99.8	98.7	P/P	90 - 110
Titanium	99.1	99.5	P/P	90 - 110
Titanium	99.5	99.6	P/P	90 - 110
Vanadium	95.6	96.8	P/P	90 - 110
Vanadium	96.8	95.1	P/P	90 - 110
Zinc	101	99.9	P/P	90 - 110
Zinc	99.6	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A125603

Included Lab Sample IDs: 2485147, 2485148, 2485149

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.7	98.3	P/P	90 - 110
Antimony	99.3	101	P/P	90 - 110
Arsenic	96.0	96.4	P/P	90 - 110
Barium	100	100	P/P	90 - 110
Beryllium	98.0	97.7	P/P	90 - 110
Boron	100	98.0	P/P	90 - 110
Cadmium	98.4	99.5	P/P	90 - 110
Chromium	95.4	95.3	P/P	90 - 110
Cobalt	94.6	94.1	P/P	90 - 110
Copper	93.8	93.0	P/P	90 - 110
Lead	99.4	98.9	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A125603
Included Lab Sample IDs: 2485147, 2485148, 2485149

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Manganese	96.7	96.5	P/P	90 - 110
Molybdenum	95.3	96.2	P/P	90 - 110
Nickel	93.6	93.7	P/P	90 - 110
Selenium	97.9	96.6	P/P	90 - 110
Silver	95.7	97.0	P/P	90 - 110
Thallium	99.8	98.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A125609
Included Lab Sample IDs: 2485128, 2485129

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A125610
Included Lab Sample IDs: 2485130, 2485132

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.0	101	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A125619
Included Lab Sample IDs: 2485125, 2485126, 2485127, 2485131

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	93.9	100	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A125619
Included Lab Sample IDs: 2485125, 2485126, 2485127, 2485131

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A125620
Included Lab Sample IDs: 2485128, 2485129, 2485130, 2485132

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A125640
Included Lab Sample IDs: 2485125, 2485126, 2485127, 2485131

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	104	101	P/P	90 - 110
Sulfate	106	104	P/P	90 - 110

Quality Assurance Report

Calibration Verification

Reference Method: SM 5310 B-2014

Run ID: A125643

Included Lab Sample IDs: 2485128, 2485129, 2485130, 2485132

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.9	111	P/P	85 - 115

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A125674

Included Lab Sample IDs: 2485128, 2485129, 2485130, 2485132

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.8	100	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A125753

Included Lab Sample IDs: 2485142

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	94.7		P	80 - 120
PCB-1260	108		P	80 - 120

Reference Method: EPA 8270E

Run ID: A125756

Included Lab Sample IDs: 2485142

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	100		P	80 - 120
Beta-BHC	103		P	80 - 120
Beta-Cyfluthrin	106		P	80 - 120
Bifenthrin	99.6		P	80 - 120
Chlorothalonil	93.6		P	80 - 120
Cis-Nonachlor	101		P	80 - 120
Cypermethrin	107		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	101		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	95.4		P	80 - 120
Delta-BHC	103		P	80 - 120
Deltamethrin	109		P	80 - 120
Dichlobenil	95.7		P	80 - 120
Dicofol	94.4		P	80 - 120
Dieldrin	102		P	80 - 120
Endosulfan I	100		P	80 - 120
Endosulfan II	109		P	80 - 120
Endosulfan Sulfate	109		P	80 - 120
Endrin	101		P	80 - 120
Endrin Aldehyde	103		P	80 - 120
Endrin Ketone	101		P	80 - 120
Esfenvalerate	103		P	80 - 120
Ethalfuralin	103		P	80 - 120
Fenpropathrin	100		P	80 - 120
Gamma-BHC	100		P	80 - 120
Gamma-Chlordane	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A125756
Included Lab Sample IDs: 2485142

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Heptachlor	102		P	80 - 120
Heptachlor Epoxide	100		P	80 - 120
Hexachlorobenzene	102		P	80 - 120
Kepone	87.3		P	80 - 120
Lambda-Cyhalothrin	106		P	80 - 120
Methoprene	104		P	80 - 120
Methoxychlor	101		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	104		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	106		P	80 - 120
Phenothrin	102		P	80 - 120
Piperonyl Butoxide	100		P	80 - 120
Prallethrin	103		P	80 - 120
Tau-Fluvalinate	105		P	80 - 120
Tetramethrin	104		P	80 - 120
Trans-Nonachlor	100		P	80 - 120
Triclosan Methyl	100		P	80 - 120
Trifluralin	100		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A125759
Included Lab Sample IDs: 2485128, 2485129, 2485130, 2485132

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

Reference Method: EPA 8276
Run ID: A125841
Included Lab Sample IDs: 2485142

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	95.4		P	80 - 120
Toxaphene	96.7		P	80 - 120

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report

Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	99.6					0.832	
EPA 180.1 Rev. 2.0	Turbidity	104					5.39	
EPA 200.7 Rev. 4.4	Calcium	103	104	104				0.0242
	Iron	107	105	105	107			0.0161
	Magnesium	103	104	104				0.355
	Potassium	98.9	101	103				0.803
	Sodium	102	102	103				0.585
	Strontium	101	99.9	99.8	99.4			0.0395
	Tin	99.1	97.7	98.6	98.0			0.924
	Titanium	101	102	103	102			0.619
	Vanadium	96.3	100	101	97.8			0.537
	Zinc	99.4	99.5	99.2	98.9			0.250
EPA 200.8 Rev. 5.4	Aluminum	96.6	95.9	94.3	93.5			1.53
	Antimony	98.1	100	99.4	99.1			0.617
	Arsenic	93.7	97.1	96.6	94.7			0.513
	Barium	99.5	101	101	96.6			0.387
	Beryllium	94.6	99.4	99.2	92.5			0.214
	Boron	101	101	98.9	101			1.79
	Cadmium	97.0	98.1	98.8	97.6			0.697
	Chromium	94.0	94.2	92.9	93.6			1.44
	Cobalt	92.9	92.6	91.4	91.4			1.33
	Copper	90.0	90.0	88.8	88.6			1.33
	Lead	95.9	98.1	96.6	95.5			1.46
	Manganese	96.3	95.0					1.56
	Molybdenum	93.4	96.8	96.8	95.2			0.0011
	Nickel	91.2	91.5	90.0	89.4			1.61
	Selenium	97.3	97.7	96.5	95.1			1.23
	Silver	110	110	110	108			0.0790
	Thallium	93.6	97.8	96.7	94.8			1.09
EPA 300.0 Rev. 2.1	Chloride	105	103	106			0.0398	
	Sulfate	108	103	107			0.762	
EPA 350.1 Rev. 2.0	Ammonia-N	94.4	96.8	98.4				1.50
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.6	100	90.0				5.57
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	100	102				1.42
EPA 365.1 Rev. 2.0	Total-P	102	106	105				1.19
EPA 8270E	Aldrin	61.2	68.1	67.3				1.20
	Alpha-BHC	93.8	92.2	92.7				0.566
	Alpha-Chlordane	81.1	73.9	86.1				15.3
	Beta-BHC	112	106	105				1.12
	Beta-Cyfluthrin	139	136	153				12.1
	Bifenthrin	99.2	93.1	102				9.66
	Chlorothalonil	122	172	231				29.2
	Cis-Nonachlor	82.3	76.0	73.0				3.93
	Cypermethrin	145	147	174				16.5
	Dacthal	91.8	87.6	93.2				6.20
	DDD-p,p'	82.4	79.4	74.9				5.85
	DDE-p,p'	86.6	74.7	75.6				1.14
	DDT-p,p'	82.6	81.4	87.4				7.08
	Delta-BHC	128	123	149				19.4
	Deltamethrin	248	184	227				21.1
	Dichlobenil	55.5	63.5	55.1				14.3
	Dicofol	78.2	71.9	65.7				8.91
	Dieldrin	81.8	75.5	77.0				2.01
	Endosulfan I	92.4	87.9	103				15.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	SMP
EPA 8270E	Endosulfan II	92.5		90.4	104		13.9
	Endosulfan Sulfate	102		89.3	95.2		6.37
	Endrin	88.6		82.3	80.0		2.88
	Endrin Aldehyde	63.8		64.2	77.3		18.5
	Endrin Ketone	86.3		81.8	87.7		7.00
	Esfenvalerate	196		172	206		18.3
	Ethalfuralin	82.0		80.7	71.8		11.7
	Fenpropathrin	97.8		93.4	100		7.22
	Gamma-BHC	84.2		85.4	90.4		5.66
	Gamma-Chlordane	87.0		78.4	86.8		10.2
	Heptachlor	78.0		72.7	71.7		1.39
	Heptachlor Epoxide	86.2		80.7	85.8		6.13
	Hexachlorobenzene	84.4		74.7	63.8		15.8
	Kepone	113		95.4	95.8		0.421
	Lambda-Cyhalothrin	116		136	149		9.17
	Methoprene	84.2		87.9	97.9		10.7
	Methoxychlor	103		89.3	106		17.4
	MGK-264	73.8		87.3	95.7		9.13
	Mirex	85.8		74.7	85.2		13.1
	Oxychlordane	81.0		79.2	89.6		12.4
	PCB-1016	51.8		62.1	65.1		4.65
	PCB-1260	77.1		84.6	91.3		7.66
	Permethrin	128		130	142		8.50
	Phenothrin	83.4		113	117		3.22
	Piperonyl Butoxide	85.8		79.8	78.8		1.30
	Prallethrin	78.3		96.5	97.0		0.587
	Tau-Fluvalinate	183		196	224		13.4
	Tetramethrin	87.4		104	109		4.91
	Trans-Nonachlor	89.9		77.5	90.2		15.2
	Triclosan Methyl	91.2		83.2	88.5		6.12
	Trifluralin	80.9		73.5	69.7		5.25
EPA 8276	Chlordane	75.7		79.6	87.9		9.94
	Toxaphene	74.3		89.7	94.3		5.00
SM 2320 B-2011	Total Alkalinity	98.2					8.93
SM 2540 C-2015	TDS	93.6					7.35
SM 2540 D-2015	TSS	102					
SM 4500-F- C-2011	Fluoride	102		103	103		0.495
SM 5310 B-2014	Organic Carbon	98.2		99.2	102		1.98

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2485125, 2485126, 2485127, 2485131
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2485125, 2485126, 2485127, 2485131
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2485147, 2485148, 2485149
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2485147, 2485148, 2485149
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2485125, 2485126, 2485127, 2485131
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2485125, 2485126, 2485127, 2485131
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2485128, 2485129, 2485130, 2485132
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2485128, 2485129, 2485130, 2485132
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2485128, 2485129, 2485130, 2485132

Reference Method Descriptions

Method	Description	Associated Samples
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2485128, 2485129, 2485130, 2485132
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2485142
EPA 8270E	PCBs in water matrices by GC/MS/MS	2485142
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2485142
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2485125, 2485126, 2485127, 2485131
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2485147, 2485148, 2485149
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2485125, 2485126, 2485127, 2485131
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2485125, 2485126, 2485127, 2485131
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2485125, 2485126, 2485127, 2485131
SM 5310 B-2014	Nonpurgeable Organic Carbon in aqueous matrices	2485128, 2485129, 2485130, 2485132

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	04/26/2024			04/26/2024 13:47	Samantha L Bates	2485125
	04/26/2024			04/26/2024 13:48	Samantha L Bates	2485126, 2485127
	04/26/2024			04/26/2024 13:49	Samantha L Bates	2485131
	04/26/2024			04/26/2024 13:49	Samantha L Bates	2485125
EPA 180.1 Rev. 2.0	04/26/2024			04/26/2024 13:52	Samantha L Bates	2485126
	04/26/2024			04/26/2024 13:55	Samantha L Bates	2485127, 2485131
	04/26/2024	04/29/2024 12:50	George D Taylor	04/30/2024 21:55	Chase Roberts	2485147
EPA 200.7 Rev. 4.4	04/26/2024	04/29/2024 12:50	George D Taylor	04/30/2024 22:29	Chase Roberts	2485148
	04/26/2024	04/29/2024 12:50	George D Taylor	04/30/2024 22:37	Chase Roberts	2485149
	04/26/2024	04/29/2024 12:50	George D Taylor	04/30/2024 21:24	McKinley C Carter	2485147
EPA 200.8 Rev. 5.4	04/26/2024	04/29/2024 12:50	George D Taylor	04/30/2024 21:33	McKinley C Carter	2485148
	04/26/2024	04/29/2024 12:50	George D Taylor	04/30/2024 21:42	McKinley C Carter	2485149
	04/26/2024	04/29/2024 12:50	George D Taylor	04/30/2024 21:42	McKinley C Carter	2485149
EPA 300.0 Rev. 2.1	04/26/2024			05/02/2024 04:26	Samantha L Bates	2485125
	04/26/2024			05/02/2024 04:41	Samantha L Bates	2485126
	04/26/2024			05/02/2024 04:56	Samantha L Bates	2485127
	04/26/2024			05/02/2024 05:11	Samantha L Bates	2485131
EPA 350.1 Rev. 2.0	04/26/2024			05/01/2024 13:20	Khloe J Berg	2485128
	04/26/2024			05/01/2024 13:22	Khloe J Berg	2485129
	04/26/2024			05/01/2024 13:23	Khloe J Berg	2485130
	04/26/2024			05/01/2024 13:24	Khloe J Berg	2485132
EPA 351.2 Rev. 2.0	04/26/2024	04/30/2024 10:41	Robyn Blevins	05/03/2024 13:51	Robyn Blevins	2485128
	04/26/2024	04/30/2024 10:41	Robyn Blevins	05/03/2024 13:53	Robyn Blevins	2485129
	04/26/2024	04/30/2024 10:41	Robyn Blevins	05/03/2024 13:54	Robyn Blevins	2485130
	04/26/2024	04/30/2024 10:41	Robyn Blevins	05/03/2024 13:56	Robyn Blevins	2485132
EPA 353.2 Rev. 2.0	04/26/2024			05/08/2024 14:32	Fadila Guebre	2485128
	04/26/2024			05/08/2024 14:37	Fadila Guebre	2485129
	04/26/2024			05/08/2024 14:39	Fadila Guebre	2485130
	04/26/2024			05/08/2024 14:40	Fadila Guebre	2485132
EPA 365.1 Rev. 2.0	04/26/2024	04/30/2024 12:43	Adam P Silver	05/01/2024 11:10	Chandler E Cox	2485128
	04/26/2024	04/30/2024 12:43	Adam P Silver	05/01/2024 11:11	Chandler E Cox	2485129
	04/26/2024	04/30/2024 12:43	Adam P Silver	05/01/2024 11:53	Chandler E Cox	2485132
	04/26/2024	04/30/2024 12:43	Adam P Silver	05/01/2024 11:56	Chandler E Cox	2485130
EPA 8270E	04/26/2024	04/29/2024 08:00	Rasheda Ghaffari	05/03/2024 05:49	Lipi Saha	2485142
	04/26/2024	04/29/2024 08:00	Rasheda Ghaffari	05/04/2024 00:10	Kenedi Mills	2485142
EPA 8276	04/26/2024	04/29/2024 08:00	Rasheda Ghaffari	05/04/2024 16:14	Arthur Maknenko	2485142
SM 2320 B-2011	04/26/2024			04/30/2024 21:38	Dale L. Simmons	2485125
	04/26/2024			04/30/2024 21:50	Dale L. Simmons	2485126
	04/26/2024			04/30/2024 22:03	Dale L. Simmons	2485127
	04/26/2024			04/30/2024 22:13	Dale L. Simmons	2485131
SM 2340 B-2011	04/26/2024			04/30/2024 21:55	Chase Roberts	2485147

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 2340 B-2011	04/26/2024			04/30/2024 22:29	Chase Roberts	2485148
	04/26/2024			04/30/2024 22:37	Chase Roberts	2485149
SM 2540 C-2015	04/26/2024			04/30/2024 15:24	Yijie Li	2485125, 2485126, 2485127, 2485131
SM 2540 D-2015	04/26/2024			04/30/2024 15:24	Yijie Li	2485125, 2485126, 2485127, 2485131
SM 4500-F- C-2011	04/26/2024			04/30/2024 21:38	Dale L. Simmons	2485125
	04/26/2024			04/30/2024 21:50	Dale L. Simmons	2485126
	04/26/2024			04/30/2024 22:03	Dale L. Simmons	2485127
	04/26/2024			04/30/2024 22:13	Dale L. Simmons	2485131
SM 5310 B-2014	04/26/2024			05/01/2024 23:27	Jessica K Wilks	2485128
	04/26/2024			05/02/2024 00:13	Jessica K Wilks	2485129
	04/26/2024			05/02/2024 00:27	Jessica K Wilks	2485130
	04/26/2024			05/02/2024 00:51	Jessica K Wilks	2485132