Chemical Analysis Report

CEN-DIST-2021-03-17-01

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

Event Description: **Adelaide/Lotus/Asher/Florida**
Request ID: **RQ-2021-02-15-08**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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3319 Maguire Blvd., Suite 232
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Certified by: Colin Wright, Program Administrator

Date Certified: 06-APR-2021 11:46

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 group are included in this report: Nutrients.

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: Lake Lotus @ Center **Collection Date/Time: 03/16/2021 10:22**

Field ID: G2CE0015 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2232044	EPA 180.1 Rev. 2.0	Turbidity	4.6		NTU	P395106	
	EPA 300.0 Rev. 2.1	Chloride	21		mg Cl/L	P395299	
		Sulfate	11		mg SO4/L	P395303	
	SM 2120 B-2011	Color (true)	38	A	PCU	P395109	
	SM 2320 B-2011	Total Alkalinity	66	A	mg CaCO3/L	P395227	
	SM 2540 C-2011	TDS	124		mg/L	P395592	
	SM 2540 D-2011	TSS	6	I	mg/L	P395600	
	SM 4500 F-C-2011	Fluoride	0.088	I	mg F/L	P395233	
2232046	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P395313	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.97		mg N/L	P395416	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P395128	
	EPA 365.1 Rev. 2.0	Total-P	0.078		mg P/L	P395481	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P395580	
2232048	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P395132	

Sample Location: Lake Asher @ Center of Lake **Collection Date/Time: 03/16/2021 10:58**

Field ID: G2CE0130 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2232045	EPA 180.1 Rev. 2.0	Turbidity	9.2		NTU	P395106	
	EPA 300.0 Rev. 2.1	Chloride	31		mg Cl/L	P395299	
		Sulfate	9.5		mg SO4/L	P395303	
	SM 2120 B-2011	Color (true)	40		PCU	P395109	
	SM 2320 B-2011	Total Alkalinity	40		mg CaCO3/L	P395227	
	SM 2540 C-2011	TDS	108		mg/L	P395592	
	SM 2540 D-2011	TSS	6	I	mg/L	P395600	
	SM 4500 F-C-2011	Fluoride	0.036	I	mg F/L	P395233	
2232047	EPA 350.1 Rev. 2.0	Ammonia-N	0.042		mg N/L	P395313	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P395416	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P395128	
	EPA 365.1 Rev. 2.0	Total-P	0.063		mg P/L	P395481	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P395580	
2232049	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P395132	

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P395106

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P395299

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P395303

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P395313

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P395416

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P395128

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P395481

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P395132

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

Reference Method: SM 2120 B-2011
Batch ID: P395109

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P395227

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

Reference Method: SM 2540 C-2011
Batch ID: P395592

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P395600

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P395233

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P395580

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P395299

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P395303

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P395313

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P395416

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P395128

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: P395481

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P395132

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.1		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P395109

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.9		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P395227

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.9		P	93 - 104

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P395233

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	103		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P395580

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.2		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P395299

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2231861	Chloride	101		P	90 - 110
2231989	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P395303

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2231861	Sulfate	96.7		P	90 - 110
2231989	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P395313

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2232018	Ammonia-N	96.0	97.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P395416

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2232046	Kjeldahl Nitrogen	97.4	97.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P395128

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2232046	NO2NO3-N	100	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P395481

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2231962	Total-P	106	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P395132

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2231991	O-Phosphate-P	96.4	98.0	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P395233

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2232044	Fluoride	101	102	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P395580

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2232047	Organic Carbon	96.7	96.4	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P395106

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231992	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P395299

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231861	Chloride	0.710	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P395303

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231861	Sulfate	0.845	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P395313

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2232018	Ammonia-N	1.19	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P395416

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2232046	Kjeldahl Nitrogen	0.0797	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P395128

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2232046	NO2NO3-N	0.496	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P395481

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231962	Total-P	1.48	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P395132

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231991	O-Phosphate-P	1.10	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: SM 2120 B-2011
Batch ID: P395109

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2232044	Color (true)	1.07	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P395227

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2232044	Total Alkalinity	0.136	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P395592

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231901	TDS	2.58	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P395600

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2231901	TSS	6.25	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P395233

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2232044	Fluoride	0.462	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P395580

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2232047	Organic Carbon	0.164	Spike	P	0 - 20

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A104110
Included Lab Sample IDs: 2232044, 2232045

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	102	P/P	95 - 105

Reference Method: SM 2120 B-2011
Run ID: A104111
Included Lab Sample IDs: 2232044, 2232045

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.5	99.0	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A104129
Included Lab Sample IDs: 2232046, 2232047

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A104131
Included Lab Sample IDs: 2232048, 2232049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.1	96.4	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A104153
Included Lab Sample IDs: 2232044, 2232045

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

Reference Method: SM 2320 B-2011
Run ID: A104172
Included Lab Sample IDs: 2232044, 2232045

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.9	102	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A104172
Included Lab Sample IDs: 2232044, 2232045

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A104204
Included Lab Sample IDs: 2232046, 2232047

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.7	99.4	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A104295
Included Lab Sample IDs: 2232046, 2232047

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	94.2	99.6	P/P	90 - 110
Kjeldahl Nitrogen	95.1	94.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A104299
Included Lab Sample IDs: 2232046, 2232047

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	105	103	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A104316
Included Lab Sample IDs: 2232046, 2232047

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	96.9	P/P	90 - 110
Organic Carbon	96.7	96.4	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		Precision		
					LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					0.0	
EPA 300.0 Rev. 2.1	Chloride	101	101	101		0.710	
	Sulfate	99.8	96.7	100		0.845	
EPA 350.1 Rev. 2.0	Ammonia-N	99.8	96.0	97.4			1.19
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	104	97.4	97.2			0.0797
EPA 353.2 Rev. 2.0	NO2NO3-N	102	100	101			0.496
EPA 365.1 Rev. 2.0	Total-P	105	106	104			1.48
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.1	96.4	98.0			1.10
SM 2120 B-2011	Color (true)	98.9				1.07	
SM 2320 B-2011	Total Alkalinity	99.9				0.136	
SM 2540 C-2011	TDS					2.58	
SM 2540 D-2011	TSS					6.25	
SM 4500 F-C-2011	Fluoride	103	101	102			0.462
SM 5310 B-2011	Organic Carbon	95.2	96.7	96.4			0.164

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2232044, 2232045
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2232044, 2232045
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2232044, 2232045
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2232046, 2232047
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2232046, 2232047
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2232046, 2232047
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2232046, 2232047
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2232048, 2232049
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2232044, 2232045
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2232044, 2232045
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2232044, 2232045
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2232044, 2232045
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2232044, 2232045
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2232046, 2232047

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	03/17/2021			03/17/2021 15:32	Yen Ta	2232044, 2232045
EPA 300.0 Rev. 2.1	03/17/2021			03/20/2021 05:40	Lipi Saha	2232044
	03/17/2021			03/20/2021 05:52	Lipi Saha	2232045
EPA 350.1 Rev. 2.0	03/17/2021			03/22/2021 18:21	Ping Hua	2232046
	03/17/2021			03/22/2021 18:23	Ping Hua	2232047
EPA 351.2 Rev. 2.0	03/17/2021	03/24/2021 12:15	Benjamin T. Nordmann	03/25/2021 19:38	Julia Storbeck	2232046
	03/17/2021	03/24/2021 12:15	Benjamin T. Nordmann	03/25/2021 19:46	Julia Storbeck	2232047
EPA 353.2 Rev. 2.0	03/17/2021			03/18/2021 09:47	Beverly Y. Sanders	2232046
	03/17/2021			03/18/2021 09:48	Beverly Y. Sanders	2232047
EPA 365.1 Rev. 2.0	03/17/2021	03/25/2021 12:45	Yen Ta	03/26/2021 13:18	Shengyu Ding	2232046
	03/17/2021	03/25/2021 12:45	Yen Ta	03/26/2021 13:19	Shengyu Ding	2232047
EPA 365.1 Rev. 2.0 dissolved	03/17/2021			03/17/2021 20:02	Patrick M. Roche	2232048
	03/17/2021			03/17/2021 20:03	Patrick M. Roche	2232049
SM 2120 B-2011	03/17/2021			03/17/2021 17:00	Benjamin T. Nordmann	2232044, 2232045
SM 2320 B-2011	03/17/2021			03/19/2021 06:43	Dale L. Simmons	2232044
	03/17/2021			03/19/2021 08:29	Dale L. Simmons	2232045
SM 2540 C-2011	03/17/2021			03/19/2021 15:21	Yijie Li	2232044, 2232045
SM 2540 D-2011	03/17/2021			03/19/2021 15:21	Yijie Li	2232044, 2232045
SM 4500 F-C-2011	03/17/2021			03/19/2021 06:31	Dale L. Simmons	2232044
	03/17/2021			03/19/2021 08:29	Dale L. Simmons	2232045
SM 5310 B-2011	03/17/2021			03/26/2021 19:44	Madeline Gruver	2232047
	03/17/2021			03/26/2021 22:29	Madeline Gruver	2232046