Chemical Analysis Report

CEN-DIST-2020-07-23-01

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

Event Description: **Lk. Baldwin Outfall/Lake Downey**
Request ID: **RQ-2020-07-20-50**
Customer: **CEN-DIST**
Project ID: **SMP**

Send Reports to:
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B. Steinbock

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 Downey @ Center **Collection Date/Time: 07/22/2020 10:04**

Field ID: G2CE0227 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2185048	EPA 180.1 Rev. 2.0	Turbidity	1.0		NTU	P385087	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P385319	
		Sulfate	4.7		mg SO4/L	P385323	
	SM 2120 B-2011	Color (true)	27		PCU	P385093	
	SM 2320 B-2011	Total Alkalinity	10		mg CaCO3/L	P385166	
	SM 2540 C-2011	TDS	84		mg/L	P385362	
	SM 2540 D-2011	TSS	2	U	mg/L	P385511	
	SM 4500 F-C-2011	Fluoride	0.041	I	mg F/L	P385169	
2185049	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P385146	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.59	J	mg N/L	P385340	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P385109	
	EPA 365.1 Rev. 2.0	Total-P	0.011		mg P/L	P385347	
	SM 5310 B-2011	Organic Carbon	9.6		mg C/L	P385263	
2185050	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P385083	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 351.2 Rev. 2.0: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Bear Head Lake @ Center **Collection Date/Time: 07/22/2020 11:08**

Field ID: G4CE0126 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2185045	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P385087	
	EPA 300.0 Rev. 2.1	Chloride	16		mg Cl/L	P385319	
		Sulfate	12		mg SO4/L	P385323	
	SM 2120 B-2011	Color (true)	31		PCU	P385093	
	SM 2320 B-2011	Total Alkalinity	35		mg CaCO3/L	P385166	
	SM 2540 C-2011	TDS	105		mg/L	P385362	
	SM 2540 D-2011	TSS	2	U	mg/L	P385511	
	SM 4500 F-C-2011	Fluoride	0.045	I	mg F/L	P385169	
2185046	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P385146	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P385340	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P385109	
	EPA 365.1 Rev. 2.0	Total-P	0.030		mg P/L	P385347	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P385263	
2185047	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P385083	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P385087

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385319

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385323

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385146

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385340

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385109

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385347

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385083

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

Reference Method: SM 2120 B-2011
Batch ID: P385093

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P385166

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

Reference Method: SM 2540 C-2011
Batch ID: P385362

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P385511

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P385169

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P385263

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: P385319

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385323

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	99.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385146

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385340

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385109

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385347

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385083

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.1		P	90 - 110

Reference Method: SM 2120 B-2011
Batch ID: P385093

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.7		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P385166

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	93 - 104

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P385169

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	90 - 106

Reference Method: SM 5310 B-2011
Batch ID: P385263

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.8		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385319

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2184885	Chloride	101		P	90 - 110
2185149	Chloride	98.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385323

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2184885	Sulfate	99.4		P	90 - 110
2185149	Sulfate	99.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385146

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2184891	Ammonia-N	98.2	98.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385340

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2185049	Kjeldahl Nitrogen	112	101	F/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385109

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2185018	NO2NO3-N	98.2	98.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385347

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2185046	Total-P	109	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385083

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2185032	O-Phosphate-P	99.5	100	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Batch ID: P385169

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2185105	Fluoride	99.5	98.9	P/P	94 - 107

Reference Method: SM 5310 B-2011
Batch ID: P385263

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2185076	Organic Carbon	95.3	97.1	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P385087

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185024	Turbidity	1.35	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385319

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185149	Chloride	0.475	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P385323

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185149	Sulfate	0.115	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P385146

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2184891	Ammonia-N	0.153	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P385340

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185049	Kjeldahl Nitrogen	6.73	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P385109

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185018	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P385347

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185046	Total-P	0.349	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P385083

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185032	O-Phosphate-P	0.900	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: SM 2120 B-2011
Batch ID: P385093

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185027	Color (true)	1.51	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P385166

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185105	Total Alkalinity	1.81	Sample	P	0 - 8.1

Reference Method: SM 2540 C-2011
Batch ID: P385362

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185056	TDS	0.664	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P385169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185105	Fluoride	0.474	Spike	P	0 - 2.8

Reference Method: SM 5310 B-2011
Batch ID: P385263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2185076	Organic Carbon	1.75	Spike	P	0 - 20

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A100045
Included Lab Sample IDs: 2185047, 2185050

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.6	97.0	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A100046
Included Lab Sample IDs: 2185045, 2185048

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

Reference Method: SM 2120 B-2011
Run ID: A100048
Included Lab Sample IDs: 2185045, 2185048

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	100	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A100058
Included Lab Sample IDs: 2185046, 2185049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	99.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A100073
Included Lab Sample IDs: 2185046, 2185049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.5	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A100080
Included Lab Sample IDs: 2185045, 2185048

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	98.9	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A100080
Included Lab Sample IDs: 2185045, 2185048

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

Reference Method: SM 5310 B-2011
Run ID: A100127
Included Lab Sample IDs: 2185046, 2185049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	96.7	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A100152
Included Lab Sample IDs: 2185045, 2185048

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A100154
Included Lab Sample IDs: 2185046, 2185049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	105	P/P	90 - 110
Kjeldahl Nitrogen	107	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A100253
Included Lab Sample IDs: 2185046, 2185049

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.8	97.2	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					1.35	
EPA 300.0 Rev. 2.1	Chloride	102	98.4	101		0.475	
	Sulfate	99.5	99.0	99.4		0.115	
EPA 350.1 Rev. 2.0	Ammonia-N	98.4	98.2	98.0			0.153
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106	112	101			6.73
EPA 353.2 Rev. 2.0	NO2NO3-N	99.0	98.2	98.2			0.0
EPA 365.1 Rev. 2.0	Total-P	104	109	108			0.349
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.1	99.5	100			0.900
SM 2120 B-2011	Color (true)	99.7				1.51	
SM 2320 B-2011	Total Alkalinity	101				1.81	
SM 2540 C-2011	TDS					0.664	
SM 4500 F-C-2011	Fluoride	98.2	99.5	98.9			0.474
SM 5310 B-2011	Organic Carbon	96.8	95.3	97.1			1.75

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2185045, 2185048
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2185045, 2185048
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2185045, 2185048
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2185046, 2185049
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2185046, 2185049
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2185046, 2185049
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2185046, 2185049
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2185047, 2185050
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2185045, 2185048
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2185045, 2185048
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2185045, 2185048
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2185045, 2185048
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2185045, 2185048
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2185046, 2185049

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	07/23/2020			07/23/2020 16:01	Samantha Davila	2185045, 2185048
EPA 300.0 Rev. 2.1	07/23/2020			07/29/2020 10:43	Julia Storbeck	2185045
	07/23/2020			07/29/2020 10:55	Julia Storbeck	2185048
EPA 350.1 Rev. 2.0	07/23/2020			07/25/2020 14:20	Ping Hua	2185046
	07/23/2020			07/25/2020 14:22	Ping Hua	2185049
EPA 351.2 Rev. 2.0	07/23/2020	07/27/2020 10:40	Jhamieka S. Greenwood	07/29/2020 15:44	Jhamieka S. Greenwood	2185049
	07/23/2020	07/27/2020 10:40	Jhamieka S. Greenwood	07/29/2020 16:02	Jhamieka S. Greenwood	2185046
EPA 353.2 Rev. 2.0	07/23/2020			07/24/2020 08:26	Beverly Y. Sanders	2185046
	07/23/2020			07/24/2020 08:28	Beverly Y. Sanders	2185049
EPA 365.1 Rev. 2.0	07/23/2020	07/30/2020 11:20	Lipi Saha	08/03/2020 12:46	Benjamin T. Nordmann	2185046
	07/23/2020	07/30/2020 11:20	Lipi Saha	08/03/2020 12:47	Benjamin T. Nordmann	2185049
EPA 365.1 Rev. 2.0 dissolved	07/23/2020			07/23/2020 14:19	Jhamieka S. Greenwood	2185047
	07/23/2020			07/23/2020 14:20	Jhamieka S. Greenwood	2185050
SM 2120 B-2011	07/23/2020			07/23/2020 15:30	Blanca Fach	2185045, 2185048
SM 2320 B-2011	07/23/2020			07/24/2020 18:54	Dale L. Simmons	2185045
	07/23/2020			07/24/2020 19:07	Dale L. Simmons	2185048
SM 2540 C-2011	07/23/2020			07/24/2020 18:55	Madeline Gruver	2185045, 2185048
SM 2540 D-2011	07/23/2020			07/28/2020 18:00	Madeline Gruver	2185045, 2185048
SM 4500 F-C-2011	07/23/2020			07/24/2020 18:54	Dale L. Simmons	2185045
	07/23/2020			07/24/2020 19:07	Dale L. Simmons	2185048
SM 5310 B-2011	07/23/2020			07/28/2020 09:05	David Boose	2185046
	07/23/2020			07/28/2020 09:17	David Boose	2185049