Biological Analysis Report

NW-DIST-2017-03-09-01

Florida Department of Environmental Protection
Central Laboratory
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DOH Accreditation E31780

Overflow Analyses Performed By:
University of West Florida
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DOH Accreditation E71969

Event Description: **Project Greenshores**
Request ID: **RQ-2017-02-27-16**
Customer: **NW-DIST**
Project ID: **DISTRICT**

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Certified by: Jennifer Walters, Environmental Manager

Date Certified: 05-APR-2017 16:03

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: Chlorophyll/Grain Size/BOD and Overflow.

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 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: RANGE MARKER E. OF TEXAR **Collection Date/Time: 03/08/2017 10:21**

Field ID: 1 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879048	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.4	IJ	mg/L	P321571	LCS
1879063	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.8		ug/L	P321849	
		Phaeophytin-a	0.70	I	ug/L	P321849	
		Chlorophyll/Phaeophytin Ratio	1.6			P321849	
		Chlorophyll-a, Uncorrected	4.3		ug/L	P321849	
1879084	Enterolert/QT	Enterococci-Quanti-Tray	20		MPN/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: 112 BRIDGE AND MUSCOGEE **Collection Date/Time: 03/08/2017 10:42**

Field ID: 2 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879049	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.4	IJ	mg/L	P321571	LCS
1879064	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.8		ug/L	P321849	
		Phaeophytin-a	0.76	I	ug/L	P321849	
		Chlorophyll/Phaeophytin Ratio	1.6			P321849	
		Chlorophyll-a, Uncorrected	4.4		ug/L	P321849	
1879085	Enterolert/QT	Enterococci-Quanti-Tray	63		MPN/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: EAST OF PRIMARY STORM DRAIN PGS2 **Collection Date/Time: 03/08/2017 10:53**

Field ID: 3 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879050	SM 5210 B	Biochemical Oxygen Demand-5 Day	0.88	IJ	mg/L	P321571	LCS
1879065	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.6		ug/L	P321849	
		Phaeophytin-a	0.69	I	ug/L	P321849	
		Chlorophyll/Phaeophytin Ratio	1.6			P321849	
		Chlorophyll-a, Uncorrected	3.1		ug/L	P321849	
1879086	Enterolert/QT	Enterococci-Quanti-Tray	74		MPN/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: 100FT SOUTH OF STROMDRAIN **Collection Date/Time: 03/08/2017 11:00**

Field ID: 4 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879051	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.2	IJ	mg/L	P321571	LCS
1879066	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.5		ug/L	P321849	
		Phaeophytin-a	0.78	I	ug/L	P321849	

Field ID: 4 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879066	SM 10200 H (mod.)	Chlorophyll/Phaeophytin Ratio	1.5			P321849	
		Chlorophyll-a, Uncorrected	3.1		ug/L	P321849	
1879087	Enterolert/QT	Enterococci-Quanti-Tray	106		MPN/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: END OF CHASE ST. **Collection Date/Time: 03/08/2017 11:20**

Field ID: 5 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879052	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.0	IJ	mg/L	P321571	LCS
1879067	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.2		ug/L	P321849	
		Phaeophytin-a	0.65	I	ug/L	P321849	
		Chlorophyll/Phaeophytin Ratio	1.5			P321849	
		Chlorophyll-a, Uncorrected	2.6		ug/L	P321849	
1879088	Enterolert/QT	Enterococci-Quanti-Tray	98		MPN/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: 1/2 MUSCOGEE AND HAWSHAW 400FT FROM SHORE **Collection Date/Time: 03/08/2017 11:29**

Field ID: 6 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879053	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.4	IJ	mg/L	P321571	LCS
1879068	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.7		ug/L	P321849	
		Phaeophytin-a	0.58	I	ug/L	P321849	
		Chlorophyll/Phaeophytin Ratio	1.6			P321849	
		Chlorophyll-a, Uncorrected	4.2		ug/L	P321849	
1879089	Enterolert/QT	Enterococci-Quanti-Tray	62		MPN/100 mL		

Ref. Method and Comment:
SM 5210 B: Laboratory duplicate result is 1.3 I mg/L. Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: 1/2 BRIDGE AND PORT **Collection Date/Time: 03/08/2017 11:39**

Field ID: 7 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879054	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.5	IJ	mg/L	P321571	LCS
1879069	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.9		ug/L	P321849	
		Phaeophytin-a	0.82	I	ug/L	P321849	
		Chlorophyll/Phaeophytin Ratio	1.6			P321849	
		Chlorophyll-a, Uncorrected	4.6		ug/L	P321849	
1879090	Enterolert/QT	Enterococci-Quanti-Tray	31		MPN/100 mL		

Field ID: 7 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: 1/2 BRIDGE AND PORT FIELD BLANK **Collection Date/Time: 03/08/2017 11:42**

Field ID: 7 (FB) Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879055	SM 5210 B	Biochemical Oxygen Demand-5 Day	0.20	UJ	mg/L	P321571	LCS
1879070	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.55	U	ug/L	P321849	
		Phaeophytin-a	0.40	U	ug/L	P321849	
		Chlorophyll/Phaeophytin Ratio	0.83			P321849	
		Chlorophyll-a, Uncorrected	0.40	U	ug/L	P321849	

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: WEST OF STROMDRAIN, INSIDE ROCKS **Collection Date/Time: 03/08/2017 11:11**

Field ID: 8 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879056	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.1	IJ	mg/L	P321571	LCS
1879071	SM 10200 H (mod.)	Chlorophyll-a, Corrected	1.8	A	ug/L	P321849	
		Phaeophytin-a	1.1	I	ug/L	P321849	
		Chlorophyll/Phaeophytin Ratio	1.4	A		P321849	
		Chlorophyll-a, Uncorrected	2.4	A	ug/L	P321849	
1879092	Enterolert/QT	Enterococci-Quanti-Tray	52		MPN/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Laboratory duplicate result is 0.90 I for Phaeophytin-a. Precision data is unavailable due to the small amount of analyte in the QC sample.

Sample Location: WEST END OF HAWKSHAW 100FT SOUTH OF OUTFALL **Collection Date/Time: 03/08/2017 12:23**

Field ID: 9 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879057	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.4	IJ	mg/L	P321571	LCS
1879072	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.3		ug/L	P321849	
		Phaeophytin-a	0.88	I	ug/L	P321849	
		Chlorophyll/Phaeophytin Ratio	1.5			P321849	
		Chlorophyll-a, Uncorrected	2.9		ug/L	P321849	
1879093	Enterolert/QT	Enterococci-Quanti-Tray	52		MPN/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: BETWEEN MARINA AND OUTFALL **Collection Date/Time: 03/08/2017 12:13**

Field ID: 10 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879058	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.4	IJ	mg/L	P321571	LCS
1879073	SM 10200 H (mod.)	Chlorophyll-a, Corrected	2.3		ug/L	P321849	
		Phaeophytin-a	0.66	I	ug/L	P321849	
		Chlorophyll/Phaeophytin Ratio	1.5			P321849	
		Chlorophyll-a, Uncorrected	2.8		ug/L	P321849	
1879094	Enterolert/QT	Enterococci-Quanti-Tray	31		MPN/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: ENTRANCE OF MARINA **Collection Date/Time: 03/08/2017 12:08**

Field ID: 11 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879059	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.7	IJ	mg/L	P321571	LCS
1879074	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.3		ug/L	P321849	
		Phaeophytin-a	0.63	I	ug/L	P321849	
		Chlorophyll/Phaeophytin Ratio	1.6			P321849	
		Chlorophyll-a, Uncorrected	3.8		ug/L	P321849	
1879095	Enterolert/QT	Enterococci-Quanti-Tray	122		MPN/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: 1/4 BETWEEN BRIDGE AND PORT 400FT FROM SHORE **Collection Date/Time: 03/08/2017 11:59**

Field ID: 12 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879060	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.4	IJ	mg/L	P321571	LCS
1879075	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.7		ug/L	P321849	
		Phaeophytin-a	0.66	I	ug/L	P321849	
		Chlorophyll/Phaeophytin Ratio	1.6			P321849	
		Chlorophyll-a, Uncorrected	4.2		ug/L	P321849	
1879096	Enterolert/QT	Enterococci-Quanti-Tray	10	U	MPN/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: INSIDE HAWKSHAW LAGOON **Collection Date/Time: 03/08/2017 12:49**

Field ID: 13 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879061	SM 5210 B	Biochemical Oxygen Demand-5 Day	1.5	IJ	mg/L	P321571	LCS
1879076	SM 10200 H (mod.)	Chlorophyll-a, Corrected	3.1		ug/L	P321849	
		Phaeophytin-a	0.40	U	ug/L	P321849	
		Chlorophyll/Phaeophytin Ratio	1.7			P321849	

Field ID: 13 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879076	SM 10200 H (mod.)	Chlorophyll-a, Uncorrected	3.2		ug/L	P321849	
1879097	Enterolert/QT	Enterococci-Quanti-Tray	86		MPN/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Sample Location: EAST OF STROMDRAIN INSIDE ROCKS PGS SITE II **Collection Date/Time: 03/08/2017 12:54**

Field ID: 14 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1879062	SM 5210 B	Biochemical Oxygen Demand-5 Day	0.87	IJ	mg/L	P321571	LCS
1879077	SM 10200 H (mod.)	Chlorophyll-a, Corrected	0.68	I	ug/L	P321849	
		Phaeophytin-a	0.45	I	ug/L	P321849	
		Chlorophyll/Phaeophytin Ratio	1.4			P321849	
		Chlorophyll-a, Uncorrected	0.98	I	ug/L	P321849	
1879098	Enterolert/QT	Enterococci-Quanti-Tray	10	U	MPN/100 mL		

Ref. Method and Comment:
SM 5210 B: Precision data is unavailable due to the small amount of analyte in the QC sample. Refer to QA report for QC exceeding limits.
SM 10200 H (mod.): Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Quality Assurance Report
Method Blank Results

Reference Method: SM 10200 H (mod.)
Batch ID: P321849

Component	Result	Code	Units
Chlorophyll-a, Corrected	0.55	U	ug/L
Chlorophyll-a, Uncorrected	0.40	U	ug/L
Phaeophytin-a	0.40	U	ug/L

Reference Method: SM 5210 B
Batch ID: P321571

Component	Result	Code	Units
Biochemical Oxygen Demand-5 Day	0.20	U	mg/L

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 10200 H (mod.)
Batch ID: P321849

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorophyll-a, Corrected	95.3		P	84 - 116

Reference Method: SM 5210 B
Batch ID: P321571

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5210 B
Batch ID: P321571

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Biochemical Oxygen Demand-5 Day	76.1		F	84 - 116

Quality Assurance Report
Precision

Reference Method: SM 10200 H (mod.)
Batch ID: P321849

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1879071	Chlorophyll/Phaeophytin Ratio	6.90	Sample	P	0 - 25
1879071	Chlorophyll-a, Corrected	4.27	Sample	P	0 - 25
1879071	Chlorophyll-a, Uncorrected	0.865	Sample	P	0 - 25

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	Precision		
				LCS	SMP	MS
SM 10200 H (mod.)	Chlorophyll/Phaeophytin Ratio				6.90	
	Chlorophyll-a, Corrected	95.3			4.27	
	Chlorophyll-a, Uncorrected				0.865	
SM 5210 B	Biochemical Oxygen Demand-5 Day	76.1				

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
Enterolert/QT / E71969	Enterococci by Enterolert Quanti-Tray method by UWF Overflow Laboratory for NWD	1879084, 1879085, 1879086, 1879087, 1879088, 1879089, 1879090, 1879092, 1879093, 1879094, 1879095, 1879096, 1879097, 1879098
SM 10200 H (mod.) / E31780	Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry	1879063, 1879064, 1879065, 1879066, 1879067, 1879068, 1879069, 1879070, 1879071, 1879072, 1879073, 1879074, 1879075, 1879076, 1879077
SM 5210 B / E31780	BOD, NOT nitrogen-inhibited	1879048, 1879049, 1879050, 1879051, 1879052, 1879053, 1879054, 1879055, 1879056, 1879057, 1879058, 1879059, 1879060, 1879061, 1879062

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
Enterolert/QT	03/08/2017			03/08/2017 15:52	UWF Lab	1879084
	03/08/2017			03/08/2017 15:54	UWF Lab	1879085
	03/08/2017			03/08/2017 15:55	UWF Lab	1879086
	03/08/2017			03/08/2017 15:56	UWF Lab	1879087
	03/08/2017			03/08/2017 15:57	UWF Lab	1879088
	03/08/2017			03/08/2017 15:58	UWF Lab	1879089
	03/08/2017			03/08/2017 15:59	UWF Lab	1879090
	03/08/2017			03/08/2017 16:00	UWF Lab	1879092
	03/08/2017			03/08/2017 16:01	UWF Lab	1879093
	03/08/2017			03/08/2017 16:02	UWF Lab	1879094
	03/08/2017			03/08/2017 16:03	UWF Lab	1879095
	03/08/2017			03/08/2017 16:05	UWF Lab	1879096
	03/08/2017			03/08/2017 16:06	UWF Lab	1879097
	03/08/2017			03/08/2017 16:07	UWF Lab	1879098
SM 10200 H (mod.)	03/09/2017	03/09/2017 13:55	Carina A. Tull	03/20/2017	Jennifer Mihalic	1879063, 1879064, 1879065, 1879066, 1879067, 1879068, 1879069, 1879070, 1879071, 1879072, 1879073, 1879074, 1879075, 1879076, 1879077
SM 5210 B	03/09/2017			03/10/2017 07:00	Kim M. Spencer	1879048, 1879049, 1879050, 1879051, 1879052, 1879053, 1879054, 1879055, 1879056, 1879057, 1879058, 1879059, 1879060, 1879061, 1879062