



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Minnow Creek at Lovewood Rd.

Date: 3/27/2019
(mm/dd/yyyy)

WIN/ Field ID: G3WA0008

WBID: 130

Latitude: 30.83682

County: Jackson

ORG ID: 21FLWQA

Longitude: -85.52943

Receiving Body of Water: Alligator Creek

RQ: 2019-03-25-19

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment					
Blake Spencer											☒ Sample Container	☐ Van Dorn	☐ Pole			
Avril Wood-McGrath											☐ Carboy	☒ Syringe				
											☐ Dipper	☐ Other				
											Depth Measured with <u>meter stick</u>					
											Equipment ID					
Collection Method																
☒ Wading												☐ Canoe/Kayak				
☐ From Shore												☐ Electric Motor				
☐ Other												☐ Gasoline Motor				
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded						Meter ID# <u>Biology #2</u>			Matrix: <u>fresh</u> / Marine / DI							
Photos: Yes / <u>No</u>		Flow: No Flow / Intestinal / <u>Flowing</u> / NA		Tide: Rising/ Falling/ Slack/ <u>NA</u>		Tide Times: High		Low								
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)						
EST	10:15	0.2	0.1	VOB	7.87	78.6	6.10	0.02	47	15.33						
CEN																
Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:																
SBIO ID Numbers:		SBIO-ID:		HA-ID:		RPS-ID:		Macrophyte-ID:		LIMS#: 2073192						
Parameter Suite		Parameter Methods				Preservation		Lot#		Expiration		pH Check				
Preserved Nutrients		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice ☒ H2SO4		SA8274050		10/1/19		☒ <2				
Metals		☒ W-ICPMS ☒ W-ICP				☒ Ice ☒ HNO3		NA8344050		12/10/19		☒ <2				
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice										
Chlorophyll		☒ CHLSUITE-W				☒ Ice										
Physical/Aggregate (Fresh)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice										
Physical/Aggregate (Marine)		☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☐ Ice										
Macroinvertebrates		☐ MI-FW-QLDC				☐ Formalin										
Periphyton		☐ ALGAE-ID				☐ Ice										
Microbiology		☒ E Coli ☐ F Coli ☐ Enterococci				☒ Ice										
Molecular		☒ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2				☒ Ice										
		☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD				☒ Ice										
Tracers		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice										
Pesticides		☒ W-PSNP-TQ ☒ W-CT-CL-R ☒ W-E8321-DI				☒ Ice										
		☒ W-PCL-SQ-R ☒ WE8321-MS ☒ W-CARB-AA														
Phytoplankton		☐ DTY-QN-C ☐ PKD-QN-C				☐ Ice										

Notes: Bottle Group A:
Nutrients, metals, PCR-FILTER, pesticides,
E. coli

WIN ID /
FILED ID

G3WA0008

Location

Minnow Creek At Lovewood Rd

Signature:

Date:

3/27/19

LIMS EVENT ID: WAS-SECT-2019-03-27-01

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: 4/10/19

QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: Bio/99v #2

RQ- 2019-03-25-19

Project: NWOT

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Bla/ke Spencer	3/27/19	0732	19.91	760	9.111	9.11	100	53.3	—	P/F	L/F
ICV	1	3/27/19	0735	19.89	760	9.111	9.11	99.9	53.3	—	P/F	L/F
CCV	Bla/ke Spencer	3/27/19	1646	21.90	760	9.761	9.71	99.4	46.1	—	P/F	L/F
CCV											P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Bla/ke Spencer	3/27/19	0741	180221A	03/2019	500	500	P/F	L/F
ICV	1	3/27/19	0743	180221A	03/2019	500	501	P/F	L/F
CCV	Bla/ke Spencer	3/27/19	1648	1805F81	05/2020	100	104	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Bla/ke Spencer	3/27/19	0747	180403C	10/2019	7.02	20.48	7.02	78.2	P/F	L/F
Calibr.	1		0750	180621D	07/2019	4.00	20.44	4.00	155.7	P/F	L/F
Calibr.	1		0755	180621F	01/2020	10.05	20.48	10.03	-187.4	P/F	L/F
ICV	1		0757	180621F	01/2020	10.05	20.47	10.03	-187.2	P/F	L/F
CCV	Bla/ke Spencer	3/27/19	1654	180621D	07/2019	4.00	20.71	3.99	155.5	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	B. Spencer	3/27/19	0756	0.00	0.00	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

Customer: WAS-SECT

Project ID: SMP

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Requester: Curtis Musson

Collected By: Blake Spencer Avril Wood-McGrath

Field Report Prepared By:

Avril Wood-McGrath

last revised Jan 25, 201

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Sampling Agency: FDEP

Location	WIN ID / FILED ID	Field ID	WIN/STORET #	Location	Latitude	Longitude	Collection (comp begin or grab)	Date	Time	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	Temp (C)	pH	Salinity (ppt)	Sample Depth	Comments	Composite end Date	Time	Bottle Group(s) (See pg 2)
Little Alligator Creek at SR 273	G3WA0006				30.88873	-85.46802	☒ Comp ☒ Grab	3/27/19	11:15	Fresh	91.6	16.10	6.79	0.04	0.2				C
Scurlock Creek at Highway Rd	G3WA0009				30.8545	-85.4443	☒ Comp ☒ Grab	3/27/19		Fresh									
Crossed out because Scurlock not sampled																			
Minnow Creek At Lovewood Rd	G3WA0008				30.83682	-85.52943	☒ Comp ☒ Grab	3/27/19	10:15	Fresh	78.6	15.33	6.10	0.02	0.1				A
Alligator Creek Upstream of SR 273	G3WA0005				30.819	-85.5042	☒ Comp ☒ Grab	3/27/19	12:50	Fresh	88.6	16.77	6.12	0.02	0.2				B

Disinquired By: *[Signature]* Date/Time: 3/27/19 1638 Shipping Method: Hand Delivered Number of Coolers Shipped: 3 Received By: Tyler R. Date/Time: 03/27/19 @ 4:38pm

Request Number: RQ-2019-03-25-19

NWQI - Alligator Creek

Florida Department of Environmental Protection Central Laboratory Submittal Form

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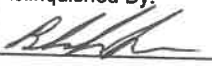
Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Field Report Prepared By: Blake SpencerCollected By: Blake Spencer & Avril Wood-McGrathSampling Agency: FDEP

Location		WIN ID / FILED ID → 	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>3/27/19</u> Time <u>14:25</u>	☒ Eastern ☐ Central	Composite end Date — Time —	Bottle Group(s) (See pg 2)	
Field ID	G3WA0013		Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>124.3</u>	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —	
WIN/STORET #	Location	 Unnamed Creek at Palmview Rd	Temp (C) <u>22.62</u>	pH <u>6.10</u>	Sample Depth <u>0.1</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>42</u>	
Latitude	☒ dd ☐ dms	Longitude	☒ dd ☐ dms	Salinity (ppt) <u>0.02</u>	Comments			C
Latitude	☒ dd ☐ dms	Longitude	☒ dd ☐ dms	Crossed out because Pine Barn creek not sampled.				C
Field ID	G3WA0011		Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —	
WIN/STORET #	Location	 Pine Barn Creek at Woodrest Rd	Temp (C) <u>16.80</u>	pH <u>6.23</u>	Sample Depth <u>0.1</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>76</u>	
Latitude	☒ dd ☐ dms	Longitude	☒ dd ☐ dms	Salinity (ppt) <u>0.04</u>	Comments			C
Field ID	G3WA0004		Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>96.0</u>	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —	
WIN/STORET #	Location	Alligator Creek upstream of Bentley Rd.	Temp (C) <u>16.80</u>	pH <u>6.23</u>	Sample Depth <u>0.1</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>76</u>	
Latitude	☒ dd ☐ dms	Longitude	☒ dd ☐ dms	Salinity (ppt) <u>0.04</u>	Comments			C
Field ID	G3WA0010		Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>93.4</u>	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —	
WIN/STORET #	Location	 Unnamed Creek at Woodrest Rd	Temp (C) <u>19.06</u>	pH <u>5.57</u>	Sample Depth <u>0.1</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>33</u>	
Latitude	☒ dd ☐ dms	Longitude	☒ dd ☐ dms	Salinity (ppt) <u>0.01</u>	Comments			C

Relinquished By: 	Date/Time <u>3/27/19 1638</u>	Shipping Method <u>Hand Delivered</u>	Number of Coolers Shipped: <u>3</u>	Received By: 	Date/Time <u>03/27/19 @ 4:38</u>
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Group: A	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ECOLI-18QT						
Group: A	Bottle Type:	QPCR-P-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	PCR-FILTER						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 1	Preservative:	CH2CICOOH Pre-Preserved	Enter Number of Bottles Sent to Lab	1
	W-CARB-AA						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	W-CT-CI-R W-PCL-SQ-R						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	W-E8321-DI W-E8321-MS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
	W-ICP W-ICPMS LOT# NA 8344050 Exp: 12/10/19						
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC H2SO4 LOT# SA8274050 EXP: 10/01/2019						

Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	1
Group: A	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab	4
Group: B	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: PCR-BACR PCR-HF183	QPCR-P-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 1	Preservative: HNO3 lot #: NA 8344050 ETP: 12/10/19	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4 H2SO4 LOT# SA8274050 EXP: 10/01/2019	Enter Number of Bottles Sent to Lab	1

Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
Group: C	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	Bottle Type: P-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
Group: C	CHLSUITE-W	Bottle Type: BP-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
Group: C	ECOLI-18QT	Bottle Type: P-250ML-WO-THI	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
Group: C	PCR-BACR PCR-HF183	Bottle Type: QPCR-P-500ML	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
Group: C	W-E8321-DI W-E8321-MS	Bottle Type: BG-500ML	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
Group: C	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	Bottle Type: P-500ML	# of Bottles: 6	Preservative: ICE And H2SO4 H2SO4 LOT# SA8274050 EXP: 10/01/2019	Enter Number of Bottles Sent to Lab	<u>4</u>
Group: C	W-PO4-F	Bottle Type: P-125ML	# of Bottles: 6	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	<u>4</u>

Cooler Packing Worksheet for Request: RQ-2019-03-25-19

NWQI - Alligator Creek

Ship Cooler On: 3/21/2019

Customer/Project: WAS-SECT/SMP

Assigned To: REYNOLDS_T

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Please return
packing list with
sample submittal
forms.

Comments:

No preservatives needed.

Group A: Nutrients, Metals, PCR-FILTER, Pesticides, E. coli *Minnow Creek @ Love wood Rd.*
WBID 130 Minnow Creek

Group B: Nutrients, Metals, PCR (HF183, BacR), Tracers, E. coli
WBID123. Alligator Creek at SR 273

Group C x 6
Nutrients, PCR (HF183, BacR), Tracers, E. coli
WBIDs 123x2, 195, 233A, 235, 262A

Packing Notes:

No FedEx labels

No Trash Bags

Requested Analyses:

Bottle Group: A

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Description: Plastic Bottle 1L

Lot # 00073319

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00073297

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00073297

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: FILTER-ICE

Lot # 00072954

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 00073521

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS

Bottle Group: B

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00073319

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00073297

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: FILTER-ICE

Lot # 00072954

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: C# of Sites: 6

Container ID: P-1L

Qty: 6 Preservation: ICE

Lot # 00073319

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 6 Preservation: ICE

Lot # 1243571

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Cooler Packed By: Tyler R.

Number of Coolers: 4

Date: 03/20/19

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags/Zip Ties
- ☒ Acid Labels (sets of 24)

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2019-03-25-19