

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H ₂ SO ₄	5A7341020	12/7/18	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO ₃	NA7341010	12/7/18	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	10827054		
Chlorophyll	☒ CHLSUITE-W	☒ Ice	Contains 1:1 Nitric Acid NA-7341010 EXP: 12/7/18 See SDS	Contains: 1:1 H2SO4 Lot No.: SA7341020 Expires: 12/07/18 See Safety Data Sheet (SDS)	
Physical/Aggregate (Fresh)	☒ Alkalinity W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci	☒ Ice	Contains 1:1 Nitric Acid NA-7341010 EXP: 12/7/18 See SDS		
Molecular	☒ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☒ Ice			
Tracers	☒ W-E8321-MS ☒ W-E8321-DI	☒ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-E8321-MS ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E8321-DI ☐ W-CARB-AA	☐ Ice ☐ Other _____			

Duplicate

Estates Drain



Time Zone: EST CEN Time: 1145 Filed: QC DUP **G1WA0034_DUP** (WIN ID + DUP)

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TOC / ☒ W-S-A-TP	☒ Ice ☐ H ₂ SO ₄	SA7341020	12/7/18	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☐ HNO ₃	NA7341010	12/7/18	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	1092051 4		
Chlorophyll	☒ CHL-SUITE-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-F / W-TSS / TURBIDITY	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☒ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☒ Ice			
Tracers	☒ W-E8321-MS ☒ W-E8321-DI	☒ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-E8321-DI ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA	☐ Ice ☐ Other			

Contains: 1:1 H2SO4
Lot No.: SA7341020
Expires: 12/07/18
See Safety Data Sheet (SDS)

Contains: 1:1 Nitric Acid
NA--7341010
EXP: 12/7/18
See SDS

Contains: 1:1 H2SO4
Lot No.: SA7341020
Expires: 12/07/18
See Safety Data Sheet (SDS)

Contains: 1:1 H2SO4
Lot No.: SA7341020
Expires: 12/07/18
See Safety Data Sheet (SDS)

Field Blank

Filed ID

Time Zone: EST CEN Time: 1110 Field ID: _____

DI Source: FDEP Tallahassee Lab Location: G1WA0071

☒ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank Equipment ID: _____

Blank_0606018

WIN DMT Blank Batch ID:

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TOC / ☒ W-S-A-TP	☒ Ice ☒ H ₂ SO ₄	SA7341020	12/7/18	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO ₃	NA7341010	12/7/18	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ 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-F / W-TSS / TURBIDITY	☐ Ice			
Tracers	☒ W-E8321-MS ☒ W-E8321-DI	☒ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-E8321-DI ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA	☐ Other			

Notes:

Kit-C
Bacteria,
Tracers, Markers

Harbinwood
Estates Drain

WIN ID/Filed ID



G1WA0034

Signature: B. H. H.Date: 6/6/18Enter Field Parameters, Verify Station ID In LIMS DMT: 6/12/18

(Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: CN 6-12-18

(Initials/Date)

Scan/Save Field Sheets CN 6-12-18

(Initials/Date)

Migrate Data to WIN: _____

(Initials/Date)

Verify Data In WIN: _____

(Initials/Date)

Florida Department of Environmental Protection Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis MussonField Report Prepared By: Ben Rals, Blake Spencer

Project ID: SMP

Collected By: Ben Rals, Blake SpencerSampling Agency: FDEP

Location Central Drainage Ditch downstream of Orange Ave.		WIN ID / FIELD ID G1WA0026	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>6/6/18</u> Time <u>8:00</u>	<u>Eastern</u> Central	Composite end Date — Time —	Bottle Group(s) (See pg 2) A, C
Field ID			Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen <u>84.1</u>	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —
WIN/STORET #			Temp (C) <u>25.96</u>	pH <u>7.71</u>	Sample Depth <u>0.1</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>162</u>
Latitude <u>30.4095</u>	☒ dd ☐ dms	Longitude <u>-84.3073</u>	☒ dd ☐ dms	Salinity (ppt) <u>0.08</u>	Comments <u>Saw a family of River otter</u>		
Location Godby Drainage at Progress Dr.		WIN ID / Field ID G1WA0061	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>6/6/18</u> Time <u>8:50</u>	<u>Eastern</u> Central	Composite end Date — Time —	Bottle Group(s) A
Field ID			Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen <u>84.6</u>	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —
WIN/STORET #			Temp (C) <u>23.79</u>	pH <u>7.95</u>	Sample Depth <u>0.1</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>132</u>
Latitude <u>30.444661</u>	☒ dd ☐ dms	Longitude <u>-84.344711</u>	☒ dd ☐ dms	Salinity (ppt) <u>0.06</u>	Comments		
Location Ochlockonee River Upstream of US 90		WIN ID / FIELD ID G1WA0068	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>6/6/18</u> Time <u>9:30</u>	<u>Eastern</u> Central	Composite end Date — Time —	Bottle Group(s) A
Field ID			Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen <u>79.6</u>	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —
WIN/STORET #			Temp (C) <u>25.10</u>	pH <u>7.47</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>80</u>
Latitude <u>30.47573</u>	☒ dd ☐ dms	Longitude <u>-84.40595</u>	☒ dd ☐ dms	Salinity (ppt) <u>0.04</u>	Comments		
Location Three Pole Creek		WIN ID/Field ID G1WA0076	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>6/6/18</u> Time <u>10:15</u>	<u>Eastern</u> Central	Composite end Date — Time —	Bottle Group(s) A
Field ID			Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen <u>109.5</u>	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —
WIN/STORET #			Temp (C) <u>21.76</u>	pH <u>6.98</u>	Sample Depth <u>0.05</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>238</u>
Latitude	☒ dd ☐ dms	Longitude	☒ dd ☐ dms	Salinity (ppt) <u>0.4</u>	Comments		

Relinquished By: <u>Ben Rals</u>	Date/Time <u>6/6/18</u>	Shipping Method <u>Delivered</u>	Number of Coolers Shipped: <u>4</u>	Received By: 	Date/Time <u>6/6/18 1408</u>
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Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtiss Musson

Collected By:

Ben Ralys, Blake Spencer

Field Report Prepared By: Ben Ralys, Blake Spencer

Sampling Agency: FDEP

Location		WIN ID / FIELD ID		☐ Comp	Collection (comp begin or <u>Grab</u>)		<u>Eastern</u>	Composite end		Bottle Group(s) (See pg 2) A
Field ID		Ochlockonee River		☒ Grab	Date	6/6/18	Time	—	Time	
WIN/STORET #		Downstream of Tower Rd		Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen		☐ mg/L	Total Res. Chlorine	
Latitude		30.52646		Temp (C)		pH		☐ ft	Sp. Conductance	
Longitude		-84.38821		Salinity (ppt)		Comments		NOT Collected		
Location		WIN ID / FIELD ID		☐ Comp	Collection (comp begin or <u>Grab</u>)		<u>Eastern</u>	Composite end		Bottle Group(s) (See pg 2) A
Field ID		Ochlockonee River		☒ Grab	Date	6/6/18	Time	—	Time	
WIN/STORET #		Upstream of Tower Rd		Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen		☐ mg/L	Total Res. Chlorine	
Latitude		30.52967		Temp (C)		pH		☐ ft	Sp. Conductance	
Longitude		-84.38896		Salinity (ppt)		Comments		NOT Collected		
Location		WIN ID / FIELD ID		☐ Comp	Collection (comp begin or <u>Grab</u>)		<u>Eastern</u>	Composite end		Bottle Group(s) (See pg 2) A
Field ID		Ochlockonee River		☒ Grab	Date	6/6/18	Time	—	Time	
WIN/STORET #		Upstream of Old Brainbridge		Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen		☐ mg/L	Total Res. Chlorine	
Latitude		30.5864		Temp (C)		pH		☐ ft	Sp. Conductance	
Longitude		-84.3571		Salinity (ppt)		Comments		NOT Collected		
Location		WIN ID / Filed ID		☐ Comp	Collection (comp begin or <u>Grab</u>)		<u>Eastern</u>	Composite end		Bottle Group(s) (See pg 2) A, B
Field ID		Harbinwood		☒ Grab	Date	6/6/18	Time	11:45	Time	
WIN/STORET #		Estates Drain		Matrix (type, e.g., Salt, <u>Fresh</u> , etc)		Diss. Oxygen		☐ mg/L	Total Res. Chlorine	
Latitude		30.5193		Temp (C)		pH		☐ ft	Sp. Conductance	
Longitude		-84.3357		Salinity (ppt)		Comments		97		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Ben Ralys	6/6/18	Delivered	4		6/6/18 1418

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Ben Ralys, Blake Spencer

Field Report Prepared By: Ben Ralys, Blake Spencer

Sampling Agency: FDEP

Location		Field ID		☐ Comp ☒ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Harbinwood Estates Drain		QC DUP		G1WA0034_DUP		Date 6/6/18		Time 11:45		Date		Time	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)				A, B	
Latitude 30.5193		☒ dd ☐ dms		Longitude -84.3357		☒ dd ☐ dms		Temp (C) 26.43		pH 7.09		Sample Depth 0.1	
Location		Field ID		☐ Comp ☒ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field Blank		Filed ID		Blank_0606018		Date 6/6/18		Time		Date		Time	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)				D	
Latitude 30.5193		☒ dd ☐ dms		Longitude -84.3357		☒ dd ☐ dms		Temp (C)		pH		Sample Depth	
Location		Field ID		☐ Comp ☐ Grab		Collection (comp begin or grab)		☐ Eastern ☐ Central		Composite end		Bottle Group(s)	
						Date		Time		Date		Time	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)					
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH		Sample Depth	
Location		Field ID		☐ Comp ☐ Grab		Collection (comp begin or grab)		☐ Eastern ☐ Central		Composite end		Bottle Group(s)	
						Date		Time		Date		Time	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)					
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH		Sample Depth	
Location		Field ID		☐ Comp ☐ Grab		Collection (comp begin or grab)		☐ Eastern ☐ Central		Composite end		Bottle Group(s)	
						Date		Time		Date		Time	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)					
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH		Sample Depth	

Relinquished By: Ben Ralys	Date/Time: 6/6/18	Shipping Method: Delivered	Number of Coolers Shipped: 4	Received By: [Signature]	Date/Time: 6/6/18 14:18
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Group: A	Bottle Type: P-1L	# of Bottles: 9	Preservative: ICE	Enter Number of Bottles Sent to Lab	6
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS					
Group: A	Bottle Type: BP-1L	# of Bottles: 9	Preservative: ICE	Enter Number of Bottles Sent to Lab	6
CHLSUITE-W					
Group: A	Bottle Type: P-250ML-WO-THI	# of Bottles: 9	Preservative: ICE	Enter Number of Bottles Sent to Lab	6
ECOLI-18QT					
Group: A	Bottle Type: P-500ML	# of Bottles: 9	Preservative: HNO3	Enter Number of Bottles Sent to Lab	6
			<i>Nitric Acid</i> <i>7341010</i> <i>ex. 12/7/18</i>		
W-ICP W-ICPMS					
Group: A	Bottle Type: P-500ML	# of Bottles: 9	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	6
			<i>Sulfuric Acid</i> <i>7341020</i> <i>ex. 12/7/18</i>		
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
Group: A	Bottle Type: P-125ML	# of Bottles: 9	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	6
W-PO4-F					
Group: B	Bottle Type: QPCR-P-500ML	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
PCR-FILTER					
Group: B	Bottle Type: BG-500ML	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
W-E8321-DI W-E8321-MS					
Group: C	Bottle Type: QPCR-P-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
PCR-FILTER					
Group: C	Bottle Type: BG-500ML	# of Bottles: 1	Preservative: CH2CICOOH Pre-Preserved	Enter Number of Bottles Sent to Lab	1

Group: C	Bottle Type: W-CARB-AA	BG-500ML	# of Bottles: 1	Preservative: CH2CICOOH Pre-Preserved	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: W-CT-CI-R W-PCL-SQ-R	BG-500ML	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab	4
Group: C	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab	4
Group: D	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: D	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: D	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab	1
Group: D	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
Group: D	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	1

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

PH

~~Boldly "X" this box if there is qualified data on this name~~

Meter ID: Biology #2

RQ: 2018-06-04-38

Project: SMP

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.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	6/6/18	0701	21.81	8.777	8.78	100%	33.9	—	P / F	L / F
ICV	Blake Spencer	6/6/18	0703	21.80	8.777	8.78	100%	33.9	—	P / F	L / F
CCV	Blake Spencer	6/6/18	1459	22.85	8.595	8.72	102.4	34.9	—	P / F	L / F
CCV										P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

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

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.	Blake Spencer	6/6/18	0704	171005A	10/2018	1000	1000	P / F	L / F
ICV	Blake Spencer	6/6/18	0705	171005A	10/2018	1000	1001	P / F	L / F
CCV	Blake Spencer	6/6/18	1452	180326A	04/2019	100	103	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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	6/6/18	0715	171005B	04/2019	7.0	7.00	-9.4	P / F	L / F
Calibr.	Blake Spencer	6/6/18	0721	171005A	10/2018	4.0	4.00	164.6	P / F	L / F
Calibr.	Blake Spencer	6/6/18	0727	171005C	04/2019	10.0	9.99	-176.6	P / F	L / F
ICV	Blake Spencer	6/6/18	0729	171005C	04/2019	10.0	9.98	-176.5	P / F	L / F
CCV	Blake Spencer	6/6/18	1455	171005A	10/2018	4.0	3.71	180.4	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 10 186, slope from 4 to 7 155.2 (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth 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						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: