



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Ochlockonee River Upstream of US 90

Date: 1/17/18 1-18-18
(mm/dd/yyyy)

WIN/ Field ID: G1WA0068

WBID: 1297E

Latitude: 30.167573
(Decimal Degrees)

County: Leon

ORG ID: 21FLWQA

Longitude: 84.40595
(Decimal Degrees)

Receiving Body of Water: Gulf of Mexico

RQ-2018- 01-15-28

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson						X	X			
Ben Ralys							X	X	X	X

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with Sonar #1		
Equipment ID		

Collection Method		
☐ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☒ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded
Photos: Yes / No Flow: No Flow / Intestinal / Flowing / NA
Meter ID# Biology #2 Matrix: Fresh / Marine / DI
Tide: Rising/ Falling/ Slack/ NA Tide Times: High NA Low NA

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	1405	4.1	0.3	0.9	11.41	96.5	7.23	0.05	116	8.08
CEN			3.6		11.39	96.4	7.27	0.05	117	8.08

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:

SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:

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	7275010	6/2/18	X <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	7261120	9-18-18	X <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-CI-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			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Contains 1:1 Sulfuric Acid

Lot No.: SA7275010

Expires: 10/02/18

See Safety Data Sheet (SDS)

Contains 1:1 Nitric Acid

Lot No.: NA-7261120

EXP: 09/18/18

Notes:

Kit-C, Bacteria

Ochlockonee River
Upstream of US 90

WIN ID / FIELD ID



G1WA0068

Signature:

Curtis Musson

Date:

1-18-18

Enter Field Parameters, Verify Station ID in LIMS DMT: 2/21/18

QC Station ID, Field Parameters in LIMS DMT: 4-9-18

Scan/Save Field Sheets 4-9-18 C1

Migrate Data to WIN:

Verify Data in WIN:

(Initials/Date)

(Initials/Date)

Blair, Freeman, Jasper, Quincy, Ochlocknee R.

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

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

Meter ID: Dp#2

RQ: 2018-01-15-28

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.	Curtis Mussen	1-18-18	708	17.25	9.625	9.62	100.0	49		P/F	L/F
ICV	Curtis Mussen	1-18-18	709	17.24	9.625	9.63	100.1	49		P/F	L/F
CCV	Curtis Mussen	1-18-18	1516	15.7	9.934	10.13	106.9	45		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; 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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Mussen	1-18-18	710	171005D	12/2018	1000	1000	P/F	L/F
ICV	Curtis Mussen	1-18-18	711	171005D	10/2018	999 1000	999	P/F	L/F
CCV	Curtis Mussen	1-18-18	1519	171005E	10/2018	100	100	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.	Curtis Mussen	1-18-18	714	170614B	12/2018	7.0	7.00	10.5	P/F	L/F
Calibr.	Curtis Mussen	1-18-18	715	171005A	10/2018	4.01	4.01	123	P/F	L/F
Calibr.	Curtis Mussen	1-18-18	717	171005C	04/2019	10.01	9.99	148	P/F	L/F
ICV	Curtis Mussen	1-18-18	718	171005C	04/2019	10.01	9.99	148	P/F	L/F
CCV	Curtis Mussen	1-18-18	1521	171005A	10/2018	4.01	4.06	171	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)

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

Depth Sensor (Daily Calibration & ICV)	Name	Date CA	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	Curtis Mussen	1-18-18	712	0.000	0.000	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:

Project ID: SMP

Requester: Curtis Musson

Collected By:

Curtis Musson

Curtis Musson / Ben Ralys

Field Report Prepared By:

Sampling Agency:

[illegible]

Relinquished By:

Date/Time 1-18-18 253

Shipping Method

Drop off

Number of Coolers Shipped:

၆

Received By:

Date/Time:

15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478
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Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By:

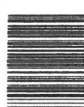
Curtis Musson, Ben Ralys

Field Report Prepared By:

Curtis Musson

Sampling Agency:

FDEP

Location	Quincy Creek upstream of SR 268	WIN ID / Field ID  GIWA0051	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 1-18-18 Time 10:00	Matrix (type, e.g., Salt, Fresh, etc.) Fresh	Diss. Oxygen 103.1	Sample Depth 0.2	pH 6.98	Salinity (ppt) 0.03	Temp (C) 3.73	Comments	Eastern ☒ Central	Composite end Date / Time /	Bottle Group(s) (See pg 2) A+B C+D
Location	Quincy Creek upstream of SR 65	WIN ID / Field ID  GIWA0049	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 1-18-18 Time 10:55	Matrix (type, e.g., Salt, Fresh, etc.) Fresh	Diss. Oxygen 102.3	Sample Depth 0.15	pH 7.12	Salinity (ppt) 0.03	Temp (C) 4.74	Comments	Eastern ☒ Central	Composite end Date / Time /	Bottle Group(s) (See pg 2) A+B C+D
Location	Quincy Creek 100 meters upstream of Ralph Strong Rd.	WIN ID / Field ID  GIWA0018	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 1-18-18 Time 11:20	Matrix (type, e.g., Salt, Fresh, etc.) Fresh	Diss. Oxygen 104.8	Sample Depth 0.25	pH 7.25	Salinity (ppt) 0.03	Temp (C) 4.55	Comments	Eastern ☒ Central	Composite end Date / Time /	Bottle Group(s) (See pg 2) A+B C+D
Location			☐ dd ☐ dms	Longitude	☐ dd ☐ dms	☐ Comp ☒ Grab	Collection (comp begin or grab) Date / Time /	Matrix (type, e.g., Salt, Fresh, etc.)	Diss. Oxygen	Sample Depth	pH	Salinity (ppt)	Temp (C)	Comments	Eastern ☒ Central	Composite end Date / Time /	Bottle Group(s) (See pg 2)
Field ID																	
WIN/STORET #																	
Latitude			☐ dd ☐ dms	Longitude	☐ dd ☐ dms												

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Musson	1-18-18 / 2:53	Drop off	5	SR	1-18-18 / 2:54

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Curtis Musson

Project ID: SMP

Collected By: Curtis Musson, Ben DavisSampling Agency: FDEP

Location	WIN ID / Field ID	Field ID	WIN/STORET #	Latitude	Longitude	Location	Collection (comp begin or grab)	Comp	Grab	Date	Time	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	Sample Depth	pH	Sp. Conductance (umho/cm)	Composite end	Eastern	Central	Time	Bottle Group(s)
Black Creek upstream of Bloxham Cutoff	31WA0023					Freeman Creek upstream of SR 267 (Bloxham Cutoff)	Fresh			1-18-18	805	Fresh	94.7	0.2	36						A,C
Juniper Creek Upstream of Juniper Creek Rd.	G1WA0059					Quincy Creek upstream of SR 267	Fresh			1-18-18	10:30	Fresh	101.6	0.2	57						A,B
																					C,D

Relinquished By: <u>Curtis Musson</u>	Date/Time: <u>1-18-18</u>	Shipping Method: <u>Drop off</u>	Number of Coolers Shipped: <u>5</u>	Received By: <u>SPR</u>	Date/Time: <u>1-18-18</u>
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Cooler Packing Worksheet for Request: RQ-2018-01-15-28

Black, Freeman, Ochlockonee, Quincy, Juniper

Ship Cooler On: 1/12/2018

Customer/Project: WAS-SECT/SMP

Assigned To: KLUG_K

Requester: Curtis Musson

Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

Group A: Freshwater Nutrient

Group B: Metals

Group C: E. coli

Group D: Wastewater Tracers (AHERB Short List), & PCR

Group E: Alkalinity 1-liter bottle

1 - case sulfuric acid

1 - case nitric acid

No FedEx labels

No Trash Bag

Requested Analyses:

Bottle Group: A

of Sites: 7

Container ID: P-1L

Qty: 7 Preservation: ICE

Lot # 00069122

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

Container ID: BP-1L

Qty: 7 Preservation: ICE

Lot # 1214297

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

1214297

Container ID: QPCR-P-250ML

Qty: 10 Preservation: ICE

Lot # 00069545

Description: 250ml Sterile Nalgene (2)

Analysis

PCR-FILTER

PCR-HF183

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Container ID: BG-1L

Qty: 5 Preservation: ICE

Lot # 00069604

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA

W-SUC-AA-R

W-UHB-AA-R

Description

Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS

Analysis of sucralose in water matrices by HPLC/MS/MS

Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

Cooler Packed By: KK Number of Coolers: 4 Date: 1/11/18

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☐ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID <u>Nitric Acid</u>	Exp <u>12/7/18</u>	Lot # <u>NA 7341010</u>
ID <u>Sulfuric Acid</u>	Exp <u>12/7/18</u>	Lot # <u>SA 7341020</u>
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2018-01-15-28

Container ID: QPCR-P-250ML

Qty: 10 Preservation: ICE

Lot # 00069545

Description: 250ml Sterile Nalgene (2)

Analysis

PCR-FILTER

PCR-HF183

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Container ID: BG-1L

Qty: 5 Preservation: ICE

Lot # 00069604

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA

W-SUC-AA-R

W-UHB-AA-R

Description

Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS

Analysis of sucralose in water matrices by HPLC/MS/MS

Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

Cooler Packed By: KK

Number of Coolers: 4

Date: 1/11/18

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☐ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID <u>Nitric Acid</u>	Exp <u>12/7/18</u>	Lot # <u>NA 7341010</u>
ID <u>Sulfuric Acid</u>	Exp <u>12/7/18</u>	Lot # <u>SA 7341020</u>
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2018-01-15-28

Cooler Packing Worksheet for Request: RQ-2018-01-15-28

Black, Freeman, Ochlockonee, Quincy, Juniper

Ship Cooler On: 1/12/2018

Customer/Project: WAS-SECT/SMP

Assigned To: KLUG_K

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

Group A: Freshwater Nutrient

Group B: Metals

Group C: E. coli

Group D: Wastewater Tracers (AHERB Short List), & PCR

Group E: Alkalinity 1-liter bottle

1 - case sulfuric acid

1 - case nitric acid

No FedEx labels

No Trash Bag

Requested Analyses:

Bottle Group: A

of Sites: 7

Container ID: P-1L

Qty: 7 Preservation: ICE

Lot # 00069122

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

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Container ID: BP-1L

Qty: 7 Preservation: ICE

Lot # 1214297

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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