RQ-2019-07-29-15 Lake Stanley

Field Personnel processing steps

☐ New Field IDs created (when using a new station) Date: _____ initials: _____ ☑ NA

☐ Create entry in SMPStationCreationFile if new station is used

\\Fldep1\wqap\NW ROC\TMDL\WIN_Station Creation

☑ Date sampled Date: 09/19/2019 initials: FB

☑ Update "SMP Tracker" Date: 09/19/2019 initials: FB

☐ Photos put into archive Date: _____ initials: _____ ☑ NA

☑ Copy of Calibration Log for YSI used

☑ Field Sheets initialed/dated @ "Scan/Save Field Sheets" then scanned and saved into:

Scans_ToBeProcessed Date: 10/28/2019 initials: FB

Scan order; *Cover Sheet, Calibration Log, Field Sheets, Tallahassee Submittal Sheets, Overflow Lab COC*

☑ Update "Data Tracker"

\\publicfiles\pubfds\DEAR\WQAPmonitoring\StrategicMonitoring\2019\21FLPNS

Ready for folder system (top)

LIMS processing (to be completed by LIMS data personnel) (MC)

☐ Field parameters entered into LIMS Date: _____ initials: _____

☐ Digital RQ packet put into

SMP 2019/Data/Scanned Field Sheets Date: _____ initials: _____

☐ Digital field Sheets put into archive Date: _____ initials: _____

☐ Date submitted for QA/QC Date: _____ initials: _____

☐ Update "Data Tracker"

Database processing (Cheryl)

☐ Field parameters QA/QC in LIMS Date: _____ initials: _____

☐ Lab results put into archive (CB) Date: _____ initials: _____

☐ Data migrated to WINS Date: _____ initials: _____

☐ Update "Data Tracker"

Notes: Biology (LVI, Habitat Assessment)

SBIO Visit ID 80423. HA ID. 16350. Macro ID 11525

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: 155077 RQ- 2019-07-29-15 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.

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.											P / F	L / F
ICV											P / F	L / F
CCV	F Butler	9/19	7:45	24.9	761.5	8.3	8.31	100.2			(P) F	(L) F
CCV	F Butler	9/19	15:30	24.4	761.8	8.4	8.40	100.3			(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	F Butler	9/19	7:50	190116A	1/2020	1000	1003	(P) F	(L) F
ICV	F. Butler	9/19	7:58	190618A	6/2020	1000	1003.6	(P) F	(L) F
CCV	F. Butler	9/19	15:35	190618A	6/2020	1000	1002.2	(P) F	(L) F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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.	F Butler	9/19	7:53	284803	10/2020	7.	21.0	7.0	76.9	(P) F	(L) F
Calibr.	↓	↓	7:55	2902818	1/2021	4.	20.9	4.0	182.2	P / F	L / F
Calibr.			7:58	4910409	9/2020	10.	21.4	10.0	-24.9	P / F	L / F
ICV			8:03	2902818	1/2021	4.0	21.7	3.96	98.6	P / F	L / F
CCV	↓	↓	15:31	2811803	10/20	7.0	19.6	7.15		(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 ± 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: 6/13/19
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	F Butler	9/19	8:10	0.00	0.0	(P) F	(L) F

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

COMMENTS: Lake Stanley

Site Name Lake Stanley (Center)

Date: 09/19/2019

Field ID G3NW0132 Storet G3NW0132

Project: TMDL Studies

Visit ID 80423

RQ: 2019-07-29-15

VPDB ID 11525

LIMS ID: 2121454

HA ID 16350

WBID: 269A

☑ LVI

☑ Sample Site Created in SBIO

☑ Phys/Chem entered in SBIO

☑ HA entered in SBIO Initial FB, 10/28/2019 ☑ Date and Initial QA: _____

☑ LVI entered in SBIO Initial FB, 10/28/2019 ☐ Date and Initial QA: _____

☑ Plants getting verified Date submitted: In House

☑ Plants verified Date returned: In House. FB

☐ VPDB authorized in SBIO ☐ Date and Initial: _____

☐ VPDB score: _____

☑ If SMP, scanned into database

Notes. Bottom covered/choked with SAV (Myacca & Bacopa), Lake surface covered by floating plants. Water level down approx. 2 feet.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified? Yes / (No)

WIN Station Name: Lake Stanley (Center) **Date:** 09/19/2019 (mm/dd/yyyy)

WIN/ Field ID: G3NW0132 **WBID:** 269A **Latitude:** 30.73889 (Decimal Degrees)

County: Walton **ORG ID:** 21FLPNS **Longitude:** -86.13804 (Decimal Degrees)

Receiving Body of Water: Choctawhatchee R. **RQ-2019-** 07-29-15

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Frank Butera	X		X		
Mike King	X	X		X	X

Sampling Equipment
- [x] Sample Container [ ] Van Dorn [ ] Pole
- [ ] Carboy [x] Syringe
- [ ] Dipper [ ] Other
- Depth Measured with YST - Pro-DSS
- Equipment ID ~~150~~ Pro 155077

Collection Method
- [ ] Wading [ ] Canoe/Kayak
- [ ] From Shore [ ] Electric Motor
- [ ] Other [x] Gasoline Motor

Water Level: Dry/ Pooled/ (Low) / Normal / High / Flooded **Meter ID#** 155077 **Matrix:** (Fresh) / Marine / DI

Photos: (Yes) No **Flow:** (No Flow) Intestital / Flowing / NA **Tide:** Rising/ Falling/ Slack/ (NA) **Tide Times:** High Low

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTh)	Sp COND (µmhos/cm)	Temp. (C°)
EST	11:50	5.6	0.3	1.7	7.57	99.4	6.35	0.01	22.7	29.3
(CEN)			5.1		0.15	2.0	5.52	0.01	30.8	27.9

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

SBIO ID Numbers: SBIO-ID: 80423 HA-ID: 16354 RPS-ID: N/A Macrophyte-ID: 11525 LIMS#: 2121454

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	[x] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[x] Ice [x] H_2SO_4	SA8344070	12/10/2019	[x] <2
Metals	[x] W-ICPMS [x] W-ICP	[x] Ice [x] HNO_3	NA9099030	04/09/2020	[x] <2
Filtered Nutrients	[x] W-PO4-F [x] Field Filtered 0.45 µm Filter	[x] Ice	16570048		
Chlorophyll	[x] CHLSUITE-W	[x] Ice			
Physical/Aggregate (Fresh)	[x] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[x] 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 [ ] 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 [ ] W-PCL-SQ-R [ ] WE8321-MS [ ] W-CARB-AA	[ ] Ice			
Phytoplankton	[ ] DTY-QN-C [ ] PKD-QN-C	[ ] Ice			

Place Preservative Sticker(s) Here (If Available)

Notes: Bottom covered/choked w/SAV
Myacca f. & Bacopa.
Water level down ~2 feet.

Signature: F & S. Butera

Field/WIN ID G3NW0132

Location: LAKE STANLEY (CENTER)

Date: 09/19/2019

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: _____ (Initials/Date)

Scan/Save Field Sheets FS / 10/28/19 (Initials/Date) Migrate Data to WIN: _____ (Initials/Date) Verify Data In WIN: _____ (Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 804 23 MACROPHYTE ID: 11525 LATITUDE: N 30.73889

COUNTY: Walton STORET #: G3NW0132 LONGITUDE: W -86.13804

DATE: 9/19/2019 TIME: 10:30 CTZ + 12:00 SAMPLING AGENCY: FL DEP - NWROC

SITE NAME: Lake Stanley (Center) WBID: 269A

FIELD ID/NAME: G3NW0132 LAKE SIZE: 34 Acres RQ: 2019-07-29-15

LIMS ID 2121454

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS):

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)
				X	X	X	

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)

LDI: 5.19

Land Use Source & Year: Storet 38705, SBIO, 2010

Local Watershed Erosion (select one) : ☐ None ☐ Slight ☒ Moderate ☐ Heavy

Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☐ Moderate ☒ Heavy

Artificially Impounded ☒ Yes ☐ No

STORMWATER INPUTS 5	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation					Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place					Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place					Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	(5)	4	3	2	1
LAKESIDE ALTERATIONS 5	Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected)					Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected)					Many structures, roads or other human disturbance visible (50%-70% lakeside affected)					Highly developed or disturbed (>70% of lakeside affected)				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	(5)	4	3	2	1
BUFFER ZONE 5	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer					89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer					50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer					< 29% of shoreline with >18m buffer				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	(5)	4	3	2	1

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water:

Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☒ pH<2 ☐ No

Color Sample Taken? ☒ Yes ☐ No Lot # _____ Exp. Date: _____

Alkalinity Sample Taken? ☒ Yes ☐ No

Water Level ☒ Low ☐ Normal ☐ High down 32 Feet.

Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____

Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____

Meter Readings:	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)
Top: 11:54	0.3	29.3	6.35	7.57	99.4	22.7	0.01
Mid-Depth:	2.5	29.3	6.33	7.25	95.4	22.7	0.01
Bottom:	5.1	27.9	5.52	0.15	2.0	30.8	0.01

Meter ID: 15507

Clarity: ☐ Clear ☐ Opaque ☐ Turbid ☒ Slightly Turbid

Color: ☐ Clear ☐ Tannic ☒ Green

SECCHI (M): 1.7 VOB ☐

Total Station Depth (M): 5.6

Sediment Type: (may check more than one) Sample Taken? ☐ Yes ☒ No

☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☒ Vegetated

☒ Sand/Silt ☒ Organic smooth (muck) ☐ Other (Specify): _____

Sediment Odors: ☒ Normal ☐ Other (Specify): ☐ Anaerobic

Biological Communities:

LVI Conducted? ☒ Yes ☐ No

Phytoplankton Sample Taken? ☐ Yes ☒ No

Sample Preserved? ☐ Yes ☐ No

Lot #: _____ Exp Date: _____

Algal Bloom/Algal ID Sample Taken? Yes (No)

Active Vegetation Mgmt? ☒ Yes ☒ No ☒ Don't Know

Abundance:

	Absent	Rare	Common	Abundant
Periphyton	☐	☐	☒	☒
Nuisance Plants	☐	☐	☒	☐
Submersed Plants	☐	☐	☐	☒
Exotic Apple Snails	☒	☐	☐	☐

Additional Notes: Bottom choked w/ SAV, Magaca flavitills, Bacopa

Weather Conditions : Sunny, 88°F. Receiving Waters West Sandy Creek

SAMPLING TEAM: Frank Butera, Mike King **SIGNATURE:** Frank Butera **DATE:** 09/19/2019

STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION

Lake Habitat Assessment Field Sheet

Storet/ WIN ID NUMBER: G3NW0132	DATE (M/D/Y): 09/19/2019	LAKE NAME: Lake Stanley (Center)		FIELD ID / NAME: G3NW0132
ECO-REGION: 269A	COUNTY: Walton	SAMPLING LOCATION/DESCRIPTION: Defuniak Springs, FL		LAKE SIZE: 34 ACRES
PARAMETER				
HYDROLOGY	No surface inflow or outflow present, very long water residence time, groundwater seepage dominates ☐	Surface water inflow present, but flow is rare, moderate to long water residence time ☒	Surface water inflow and outflow present (or outflow only), sometimes with visible flow, short water residence time ☐	Impounded, hydrology of system artificially controlled ☐
Color	Very clear, uncolored water (benthic sampling appropriate) ☐	Water somewhat tannin stained (benthic sampling appropriate) ☒	Dark, discolored water (water color 20 PCU or higher) ☐	Visibility extremely reduced due to high color ☐

	Optimal					Suboptimal					Marginal					Poor				
Secchi 12	Secchi >3 m		Secchi(m)			3	2.6	2.2	1.8	1.4	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1
	Or VOB	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Vegetation Quality 11 (FB) 5	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa					Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants					Large masses (21%- 40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats					Lake choked (>40%) with nuisance macrophytes (duck-weed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed)				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Stormwater Inputs 5	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation					Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place					Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place					Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Bottom Substrate Quality 6	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present					Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present					Moderate layer of CPOM/ mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom					Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Lakeside Adverse Human Alternations 5	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%)					Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected					Many structures, roads or other human disturbance visible (50%-70%) lakeside affected)					Highly developed or disturbed (>70% of lakeside affected)				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Upland Buffer Zone 5	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer					89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer					50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer					< 29% of shoreline with >18m buffer				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Adverse Watershed Land Use 11	Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial																			
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

TOTAL SCORE	55	COMMENTS: Lake bottom & Margins Cloked w/ SAV & Floating.

ANALYSIS DATE: 09/19/2019	ANALYST: Frank Butera, Mike King	SIGNATURE:

SBIO ID: 80423 HA ID: 1635 RQ:2019-07-29-15

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Lake Stanley (Center)	County: Walton (Defuniak Springs)	Date: 09/19/2019
Analyst: F. Butera, M. King	Signature: F Butera	STORET: G3NW0132

Except where noted as "sp." species level identification required. *Genera that may require lab verification*
Plants in bold= FLEPPC invasive exotic.

It is important to note dominant or co-dominant taxa (by areal extent) for each unit. Use "D" to denote dominant taxon, or "C" for the 2 co-dominant taxa.

Lake units sampled (circle one group):
1, 4, 7, 10 2, 5, 8, 11
3, 6, 9, 12

SBIO ID BAY 23 SPECIES	1	4	7	10	Collected? (√)
Acer rubrum					
Alternanthera philoxeroides					
Andropogon sp.	1				
Azolla filiculoides (A. caroliniana)					
Baccharis sp.					
Bacopa caroliniana	C	C	C		
Bacopa monnieri					
Bidens laevis					
Bidens mitis					
Blechnum serrulatum					
Boehmeria cylindrica					
Brasenia schreberi	1	1	1	1	
Cabomba caroliniana			1		
Casuarina equisitifolia					
Centella asiatica					
Cephalanthus occidentalis					
Ceratophyllum demersum					
Chara sp.					
Cladium jamaicense					
Cliftonia monophylla	1		1	1	
Colocasia esculenta					
*Commelina					
Crinum americanum					
***Cyperus alternifolius** (C. involucratus)					
Cyperus articulatus					
Cyperus haspan					
*Cyperus lecontei					
*Cyperus polystachyos					
*Cyperus odoratus					
*Cyperus surinamensis					
Cyrilla racemiflora	1	1	1	1	
Decodon verticillatus					
Diodia virginiana					
*Echinochloa crus-galli					
*Echinochloa muricatum					
Echinochloa walteri					
Eclipta prostrata (E. alba)					
Egeria densa					
Eichhornia crassipes					
*Eleocharis baldwinii /viviparous	1	1	1	1	✓
*Eleocharis					
Eleocharis cellulosa					
Eleocharis equisetoides					
Eleocharis interstincta					
*Eriocaulon compressum					
*Eriocaulon ~~decangulare~~ linear	1		1		✓
Eupatorium capillifolium					
*Fuirena					
Fuirena scirpoidea					
Gordonia lasianthus					

Macro ID 11525 SPECIES	1	4	7	10	Collected? (√)
Habenaria repens					
Hydrilla verticillata					
Hydrocotyle sp.					
Hygrophila polysperma					
*Hypericum fasciculatum	1	1	1	1	
*Hypericum hypericoides					
*Hypericum myrtifolium					
Ilex cassine					
Ipomoea aquatica					
Ipomoea sagittata					
Itea virginica					
Juncus effusus					
*Juncus marginatus					
*Juncus megacephalus					
Juncus repens					
*Juncus scirpoides					
Lachnanthes caroliniana					
Leersia hexandra					
Landoltia punctata (Spiro. punctata)					
Lemna sp.					
Leucothoe racemosa (E. racemosa)					
Limnobium spongia					
Limnophila sessiliflora					
Liquidamber styraciflua					
*Ludwigia arcuata					
*Ludwigia leptocarpa					
*Ludwigia linearis					
*Ludwigia octovalvis					
***Ludwigia peruviana**					
*Ludwigia repens					
*Ludwigia					
Luziola fluitans (H. carolinensis)					
Lyonia lucida					
Magnolia virginiana					
Mayaca fluviatilis	C	C	C	D	
Melaleuca quinquenervia					
Micranthemum glomeratum					
Micranthemum umbrosum					
Mikania scandens					
Mimosa pigra					
Myrica cerifera		1	1		
Hydrocotyle Bradley	1	1	1		✓
~~Utricularia~~ Nitella	1	1	1	1	✓
Lycopus					
Lims ID 2121454					
RQ:2019-07-15-28					

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Lake Stanley (Center) Storet: G3NW0132 | Date: 09/19/2019 | SBIO ID BOU23 | Macro ID 11525

SPECIES	1	4	7	10	Collected? (√)	SPECIES	1	4	7	10	Collected? (√)
Myriophyllum aquaticum						Salix caroliniana					
*Myriophyllum heterophyllum						**Salvinia minima**					
*Myriophyllum laxum						Sambucus canadensis					
*Myriophyllum pinnatum	1		1	1		**Sapium sebiferum**					
Myriophyllum spicatum						Saururus cernuus					
*Najas filifolia						**Schinus terebinthifolius**					
*Najas guadalupensis						*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea						*Schoenoplectus tabernaemontani					
Nitella spp.	1	1	1	1	✓	Scirpus cubensis (Oxycaryon cubense)					
Nuphar sp.						Scirpus cyperinus					
Nymphaea odorata	1	1	1			*Sesbania					
Nymphoides aquatica	1	1	1	1		Solidago sp.					
Nyssa sylvatica var. biflora						Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.					
Panicum hemitomon	1	1	1	1		Thalia geniculata					
Panicum repens	1	+	1	1		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens			1			Typha sp.					
Paspalum urvillei						**Urochloa mutica (Brachiaria mutica)**					
Peltandra sp.						*Utricularia gibba (U. biflora)					
Persea sp.						*Utricularia floridana	1	1	1	1	
Pennisetum purpureum						*Utricularia foliosa					
Phragmites australis						*Utricularia inflata					
Pinus elliottii						*Utricularia purpurea					
Pistia stratioides						*Utricularia cornuta					
Pluchea sp.						*Utricularia radiata					
*Polygonum glabrum (densiflorum)						Vallisneria americana					
*Polygonum hydropiperoides						*Websteria confervoides					
*Polygonum punctatum						**Wedelia trilobata (Sphag. trilobata)**					
*Polygonum						Wolffiella spp.					
Pontederia cordata	1	1	1	1		Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.			1		
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuck. pectinatus)											
Proserpinaca pectinata											
*Rhexia											
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynochospora tracyi											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											
RQ:2019-07-29-15						*Schoenoplectus tabernaemontani = Scirpus validus					

DEP-SOP-001/01
FS 7000 General Biological Community Sampling

Form FD 9000-2: COMPOSITE LAKE SAMPLING SHEET (< 1000 ACRES)

Date: 09/19/2019	Name of Lake: Lake Stanley (Center) Gear used:	PONAR	EKMAN	OTHER
Comments:				

Drop #	Depth (m)	Sediment Type (circle all that apply)	Drop #	Depth (m)	Sediment Type (circle all that apply)
1 start	5.6	sand, silt/clay, CPOM, muck, SAV	7	2.4	sand, silt/clay, CPOM, muck, SAV
2		sand, silt/clay, CPOM, muck, SAV	8		sand, silt/clay, CPOM, muck, SAV
3		sand, silt/clay, CPOM, muck, SAV	9		sand, silt/clay, CPOM, muck, SAV
4		sand, silt/clay, CPOM, muck, SAV	10		sand, silt/clay, CPOM, muck, SAV
5		sand, silt/clay, CPOM, muck, SAV	11		sand, silt/clay, CPOM, muck, SAV
6		sand, silt/clay, CPOM, muck, SAV	12		sand, silt/clay, CPOM, muck, SAV

CPOM = coarse particulate organic matter; SAV = submerged aquatic vegetation

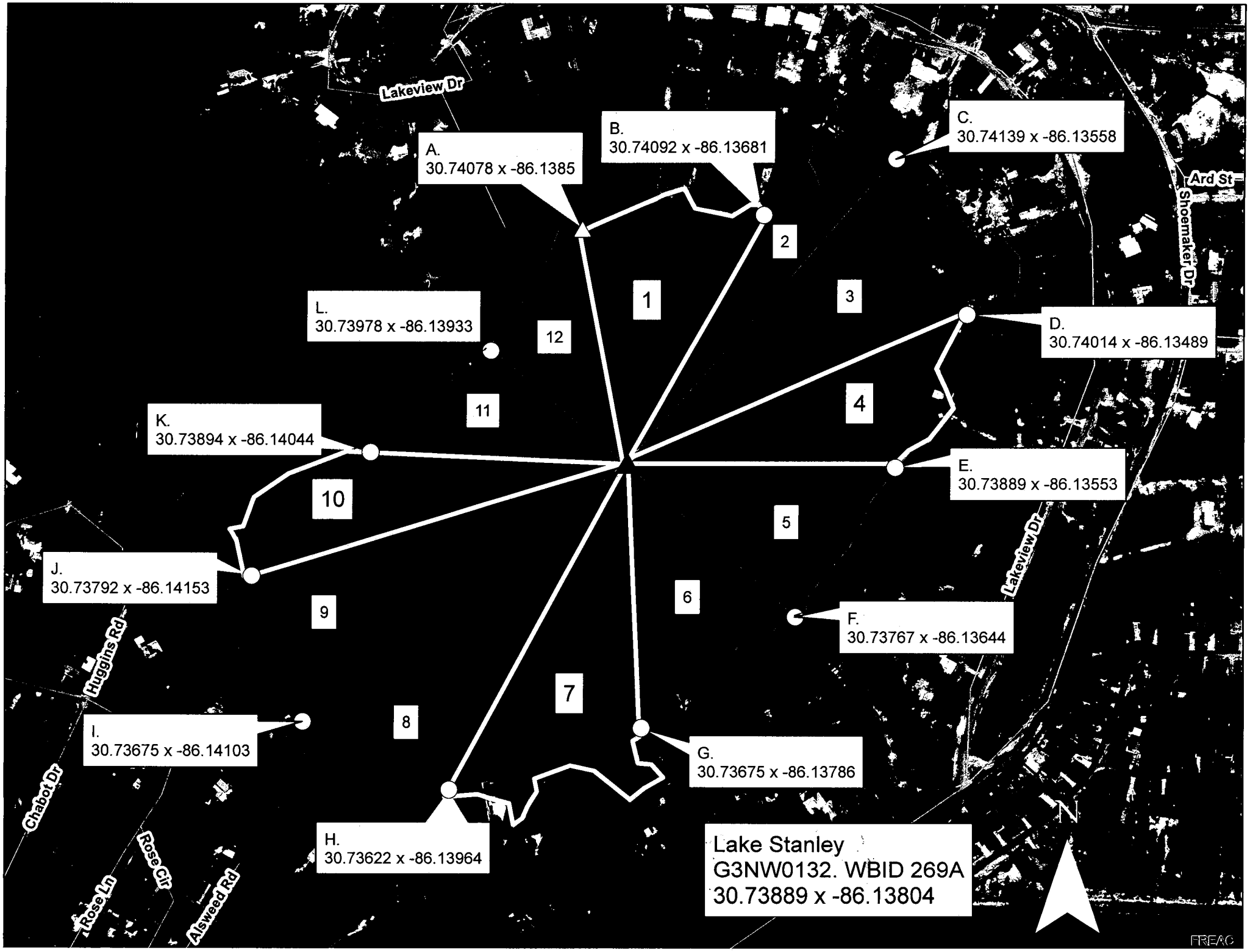
WIN ID:G3NW0132 Field ID G3NW0132 Project. TMDL / SMP SBIO ID: 80423
WBID 269A
Studies RQ-2019-07-29-15

Paste map here and show location of each dredge drop and where water chemistry parameters were collected.

Photo Log
Storet G3NW0132
Station Name: Lake Stanley (Center)
Date: 09/19/2019
Samplers. F. Butera, M. King

1 Sect. 0
2 Sect 1
3 Sect 1
4 Storet N
5 Storet E
6 storet S
7 storet W
8 Poor
9 Sediment @ Storet
10
11
12
13
14
15
16
17

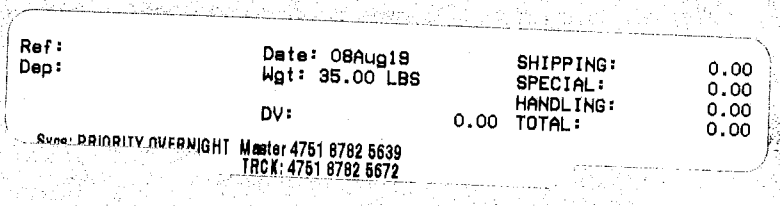
Notes.


Lakeview Dr
A.
30.74078 x -86.1385
B.
30.74092 x -86.13681
C.
30.74139 x -86.13558
Ard St
Shoemaker Dr
2
1
3
L.
30.73978 x -86.13933
12
D.
30.74014 x -86.13489
11
4
K.
30.73894 x -86.14044
E.
30.73889 x -86.13553
10
5
Lakeview Dr
J.
30.73792 x -86.14153
9
6
F.
30.73767 x -86.13644
Huggins Rd
7
8
I.
30.73675 x -86.14103
G.
30.73675 x -86.13786
Chabot Dr
Rose Cir
Rose Ln
Alsweed Rd
H.
30.73622 x -86.13964
Lake Stanley
G3NW0132. WBID 269A
30.73889 x -86.13804
N
FREAC

Lake Stanley

Storet	G3NW0132
Receiving Water	
Basin, WBID	Choctawhatchee R., 269A
City, County	Defuniak Springs, Walton
Lake Acreage	34
Circumference (M)	
Seg. Length (M)	0

	Location	Dec. Latt.	Dec. Long.
	Storet	30.73889	-86.13804
1	A	30.74078	86.13850
	B	30.74092	86.13681
	C	30.74139	86.13558
4	D	30.74014	86.13489
	E	30.73889	86.13553
	F	30.73767	86.13644
7	G	30.73675	86.13786
	H	30.73622	86.13964
	I	30.73675	86.14103
10	J	30.73792	86.14153
	K	30.73894	86.14044
	L	30.73978	86.13933
	A	30.74078	86.13850


Ref:
Dep:
Date: 08Aug18
Wgt: 35.00 LBS
DV: 0.00
SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00
Svc: PRIORITY OVERNIGHT Master 4751 8782 5639
TRCK: 4751 8782 5672

Request Number: RQ-2019-07-29-15
SMP LVI Lake Stanley

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NW-DIST
Project ID: SMP

Requester: Michael King
Collected By: Frank Butera, mike king
Field Report Prepared By: Frank Butera
Sampling Agency: FL DEP-NWROC

Location / Field ID / WIN/STORET: **Field/WIN ID** G3NW0132 Location: **LAKE STANLEY (CENTER)**	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 09/19/2019 Time 11:50 Eastern (Central)		Composite end Date Time	Bottle Group(s) (See pg 2) A
	Matrix (type, e.g., Salt, Fresh, etc) Fresh, Surface		Diss. Oxygen 7.57 ☑ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
	Temp (C) 29.3	pH 6.35	Sample Depth 0.3 ☐ ft ☑ m	Sp. Conductance (umho/cm) 22.7	
Latitude ☐ dms / Longitude ☐ dms	Salinity (ppt) 0.01	Comments			
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central		Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms / Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central		Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms / Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central		Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms / Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
[signature]	09/19/2019	Fed Ex	1		

Group: A	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	**Enter Number of Bottles Sent to Lab** ~~5~~ 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-500ML	# of Bottles: 1	Preservative:	HNO3	**Enter Number of Bottles Sent to Lab** 1

W-ICP
W-ICPMS

HNO3
LOT# NA9099030
EXP: 04/09/20

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

SA8344070
Exp. 12/10/2019

Group: A	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	**Enter Number of Bottles Sent to Lab** 1

W-PO4-F