

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: **Pro DSS Des1**

RQ: **2019-09-02-34**

Project: **LSJ & Lakes**

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

7/19

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.	C. Ruben	9.9.19	0726	23.5	763	8.5	8.53	100.3	—	—	P/F	L/F
ICV	↓	↓	0727	23.5	763	8.5	8.53	100.4	—	—	P/F	L/F
CCV	A. Kalmbacher	9-9-19	1627	26.8	762	8.3	8.27	100.2	—	—	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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	C. Ruben	9.9.19	0730	190711B	7/2020	1000	1005	P/F	L/F
ICV	↓	↓	0731	190319B	3/2020	100	104	P/F	L/F
CCV	A. Kalmbacher	9-9-19	1630	190711B	7/2020	1000	997	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.	C. Ruben	9.9.19	0733	2902778	1/2021	7.	24.5	7.10	-25.9	P/F	L/F
Calibr.	↓	↓	0735	2904890	3/2021	4.	24.5	4.05	154.1	P/F	L/F
Calibr.	↓	↓	0737	2901851	6/2020	10.	24.6	10.01	-197.6	P/F	L/F
ICV	↓	↓	0740	2902778	1/2021	7.0	24.2	7.05	-25.3	P/F	L/F
CCV	A. Kalmbacher	9-9-19	1633	2901851	6/2020	10.0	24.7	9.98	-197.8	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: _____

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	C. Ruben	9.9.19	0742	0.00 3	0.00	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:

CAR 9.10.19



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

Data Qualified?

Yes ☒ No ☐

January 2019

WIN Station Name: Dunns creek 0.4 miles upstream of US17Date: 09/09/2019

(mm/dd/yyyy)

WIN/ Field ID: G2NE1187WBID: 2606ALatitude: 29.57755

(Decimal Degrees)

County: PutnamORG ID: 21FLALongitude: -81.62629

(Decimal Degrees)

Receiving Body of Water: SJR

RQ-2019- 09-02-34

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Cheyanne Ruben					☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☒ Pole		
Amy Kalmbacher					☒	☒	☒	☒	☒	☐ Carboy	☐ Syringe	☐ Other		
					☐	☐	☐	☐	☐	☐ Dipper	☐ Other	☐ Other		
					☐	☐	☐	☐	☐	Depth Measured with <u>meter</u>				
					☐	☐	☐	☐	☐	Equipment ID <u>Orbita Kit 7</u>				
										Collection Method				
										☐ Wading	☐ Canoe/Kayak			
										☐ From Shore	☐ Electric Motor			
										☒ Other <u>Dock</u>	☐ Gasoline Motor			
Water Level: <u>Dry</u> / Pooled / Low / <u>Normal</u> / High / Flooded					Meter ID# <u>YSI Pro DSS Des</u>					Matrix: <u>Fresh</u> / Marine / DI				
Photos: Yes ☒ No ☐ Flow: <u>No Flow</u> / Intertidal / <u>Flowing</u> / NA					Tide: <u>Rising</u> / Falling / Slack <u>NA</u>					Tide Times: High <u>NA</u> Low <u>NA</u>				
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	<u>1455</u>	<u>1.7</u>	<u>0.3</u>	<u>0.95</u>	<u>8.39</u>	<u>111</u>	<u>7.82</u>	<u>0.35</u>	<u>724</u>	<u>30.2</u>				
CEN	<u>1458</u>		<u>1.2</u>		<u>8.15</u>	<u>108</u>	<u>7.76</u>	<u>0.36</u>	<u>732</u>	<u>30.1</u>				
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#:														
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	<u>SA900030</u>	<u>4/20</u>	☒ <2					
Metals	☒ W-ICPMS ☐ W-ICP					☒ Ice ☒ HNO3	<u>NA909030</u>	<u>4/20</u>	☒ <2					
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 µm Filter					☒ Ice	<u>97BA96875</u>							
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					☐ Ice								
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C					☐ Ice								

Notes:

WIN ID/Field ID:



G2NE1187

Dunns creek 0.4 miles upstream of US17

Signature: Cyan KDate: 9.9.19

LIMS EVENT ID:

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets

9.10.19

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Lake Como, Center

Date: 09/09/2019

(mm/dd/yyyy)

WIN/ Field ID: 20030627

WBID: 2892A

Latitude: 29.4696

(Decimal Degrees)

County: Putnam

ORG ID: 21FLA

Longitude: 81.58264

(Decimal Degrees)

Receiving Body of Water: Lake Margaret

RQ-2019- 09-02-34

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment		
										☒ Sample Container	☐ Van Dorn	☐ Pole
										☐ Carboy	☐ Syringe	
										☐ Dipper	☐ Other	
										Depth Measured with <u>meter</u>		
										Equipment ID <u>Ortho #2</u>		
										Collection Method		
										☐ Wading	☒ Canoe/Kayak	
										☐ From Shore	☐ Electric Motor	
										☐ Other	☐ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded

Meter ID# ProDSS Digi

Matrix: Fresh / Marine / DI

Photos: Yes / No Flow: No Flow / Intertidal / 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 (PPT)	Sp COND (µmhos/cm)	Temp. (C°)
EST	1425	2.5	0.3	72.0	7.5	102	6.73	0.03	77	31.9
CEN	1429		2.0	veg on bottom	4.5	59	6.51	0.04	78.4	29.6

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	SA9010030	4/20	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☒ Ice	29A86875		
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 ☐ 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			

Notes:

WIN ID/Field ID: 20030627

Lake Como, Center

Signature: Cyrene Date: 9/9/19

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID in LIMS DMT: QC Station ID, Field Parameters in LIMS DMT:

Scan/Save Field Sheets 9.10.19 Migrate Data to WIN: Verify Data in WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

(Initials/Date) (Initials/Date) (Initials/Date)

[illegible]

Blank

[illegible]

Scan/Save Field Sheets 9.10.19 Migrate Data to WIN: _____ Verify Data in WIN: _____
(Initials/Date) (Initials/Date) (Initials/Date)



SR # _____

ALS Contact: _____

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Ph(904) 739-2277 / FAX (904) 739-2011

Page 1 of 1

[illegible]

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: NE-DIST

Requester: Jeremy M. ParrishField Report Prepared By: C Ruben

Project ID: SMP

Collected By: A Kalmbacher / C RubenSampling Agency: FDEP DEAF NE PC

L F V	WIN ID/Field ID:		G2NE1187	Dunns creek 0.4 miles upstream of US17	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>9.9.19</u> Time <u>1455</u>	☒ Eastern ☐ Central	Composite end Date <u>---</u> Time <u>---</u>	Bottle Group(s) (See pg 2)
				Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>	Diss. Oxygen <u>9.39</u>	☒ mg/L ☐ % sat	Total Res. Chlorine <u>7</u> (mg/L)		
				Temp (C) <u>30.2</u> pH <u>7.52</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance <u>724</u> (umho/cm)		
	Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	<u>0.35</u>	Comments		
	WIN ID/Field ID:		20030627	Lake Como, Center	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>9.9.19</u> Time <u>1425</u>	☒ Eastern ☐ Central	Composite end Date <u>---</u> Time <u>---</u>	Bottle Group(s)
				Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>	Diss. Oxygen <u>7.5</u>	☒ mg/L ☐ % sat	Total Res. Chlorine <u>---</u> (mg/L)		
				Temp (C) <u>31.9</u> pH <u>6.73</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance <u>77</u> (umho/cm)		
	Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	<u>0.03</u>	Comments		
	WIN ID/Field ID:		G2NE1133	Lake Lillie Center	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>9.9.19</u> Time <u>1340</u>	☒ Eastern ☐ Central	Composite end Date <u>---</u> Time <u>---</u>	Bottle Group(s)
				Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>	Diss. Oxygen <u>8.33</u>	☒ mg/L ☐ % sat	Total Res. Chlorine <u>---</u> (mg/L)		
				Temp (C) <u>31.7</u> pH <u>7.97</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance <u>156</u> (umho/cm)		
	Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	<u>0.07</u>	Comments		
	Field ID:		G2NE1133 DUP	Lake Lillie, Center	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>9.9.19</u> Time <u>1345</u>	☒ Eastern ☐ Central	Composite end Date <u>---</u> Time <u>---</u>	Bottle Group(s)
	Location:			Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>	Diss. Oxygen <u>---</u>	☐ mg/L ☐ % sat	Total Res. Chlorine <u>---</u> (mg/L)		
	WIN ID:		G2NE1133		Temp (C) <u>---</u> pH <u>---</u>	Sample Depth <u>---</u>	☐ ft ☐ m	Sp. Conductance <u>---</u> (umho/cm)	
	Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	<u>---</u>	Comments		

Relinquished By: <u>Cyprus</u>	Date/Time: <u>9.9.19 1630</u>	Shipping Method: <u>FedEx</u>	Number of Coolers Shipped: <u>2</u>	Received By: <u>---</u>	Date/Time: <u>---</u>
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Group: A	Bottle Type:	P-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	3
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 3	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	3
	W-PO4-F						
Group: B	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: B	Bottle Type:	P-250ML-WI-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1 to ALS
	NE-ALS-ECQ						
Group: B	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
	W-ICP						
	W-ICPMS						

Group: B 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

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

W-PO4-F

Group: C 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: C Bottle Type: P-500ML # of Bottles: 1 Preservative: HNO3 Enter Number of Bottles Sent to Lab 1

W-ICP
W-ICPMS

Group: C 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

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

W-PO4-F

Florida Department of Environmental Protection

Central Laboratory Submittal Form

LSJR Lake

Customer: NE-DIST

Requester: Jeremy M. ParrishField Report Prepared By: C. Ruben

Project ID: SMP

Collected By: A. Kulmbacher / C. RubenSampling Agency: FDEP DEAR NE-RCS

Lake Lillie, Center		☐ Comp ☐ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field ID:		 FB 09042019		Date <u>9.9.19</u> Time <u>1350</u>		Date		Time		(See pg 2)	
Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen				☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
Temp (C)				pH				☐ ft ☐ m		Sp. Conductance (umho/cm)	
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	
Location				☐ Comp ☐ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Bottle Group(s)	
Field ID				Date		Time		Date		Time	
Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen				☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
Temp (C)				pH				☐ ft ☐ m		Sp. Conductance (umho/cm)	
WIN/STORET #		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	
Location				☐ Comp ☐ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Bottle Group(s)	
Field ID				Date		Time		Date		Time	
Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen				☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
Temp (C)				pH				☐ ft ☐ m		Sp. Conductance (umho/cm)	
WIN/STORET #		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	
Location				☐ Comp ☐ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Bottle Group(s)	
Field ID				Date		Time		Date		Time	
Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen				☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
Temp (C)				pH				☐ ft ☐ m		Sp. Conductance (umho/cm)	
WIN/STORET #		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	
Location				☐ Comp ☐ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Bottle Group(s)	
Field ID				Date		Time		Date		Time	
Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen				☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
Temp (C)				pH				☐ ft ☐ m		Sp. Conductance (umho/cm)	
WIN/STORET #		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	

Relinquished By: <u>C. Ruben</u>	Date/Time: <u>9.9.19 1630</u>	Shipping Method: <u>FedEx</u>	Number of Coolers Shipped: <u>2</u>	Received By:	Date/Time:
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