

DEP/Lee Co Estero Bay Water Quality Monitoring

Depletable

Monitor(s):

Miranda Carroll + Ayers

		YSI					Weather							
Site ID	Site Description	Date	Time	Temp C	Salinity (ppt)	DO (mg/L)	pH	Spec Cond (mS/cm)	Wind Dir	Wind Speed	Seas Cover %	Weather Comments	Site Comments	
HENDGR01	Hendry Creek under power lines. N 26 29' 15.4" W 81 52' 55.8"	3/3/20	1110	26.76	21.97	6.73	7.63	34845	S	5-10	04H	S		depth 1.9 seals: 0.9
HENDGR02	Hendry Cr. can see 1st house N 26 30' 47.9" W 81 52' 46.1"	3/3/20	11:30	26.43	15.42	6.71	7.56	25322	S	5-10	04H	S		depth 1.1 seals: 0.7
MULLGR01	Mullock Cr. Y near marker 22 N 26 27' 53.0" W 81 51' 56.8"	3/3/20	0950	19.98	28.35	6.80	7.69	43843	S	5-10	04H	S		depth 1.3 seals: 0.8
MULLGR02	Mullock Creek: marker 55 N 26 28' 14.1" W 81 51' 21.3"	3/3/20	1005	20.34	26.87	6.71	7.60	41561	S	5-10	04H	S		depth 1.5 seals: 0.9
SPRIGR01	Spring Cr. near marker 21													
SPRIGR02	Spring Cr. near marker 51													
SPRIGR03	Spring Cr. near marker 51													
SPRIGR04	Spring Cr. near marker 51													
SPRIGR05	Spring Cr. near marker 51													
FCB_1	FCB (Equipment Blank)	3/3/20	1045	25.91	0.00	6.58	6.23	12						
FCB_2	FCB (Equipment Blank)													
FCB_3	FCB (Equipment Blank)													
FCB_4	FCB (Equipment Blank)													

Wind Dir: (N) / NE / NW / S / SE / SW / E / W
Wind Speed: Calm / 0-4 / 5-10 / 11-15 / 16-20 / >20
Seas: (Sail) / R / LC / MD / HC
Cloud Cover %: 0 / 1-25 / 26-50 / 51-75 / 76-99 / 100

Wind Dir: (N) / NE / NW / S / SE / SW / E / W
Wind Speed: Calm / 0-4 / 5-10 / 11-15 / 16-20 / >20
Seas: (S) / R / LC / MD / HC
Cloud Cover %: 0 / 1-25 / 26-50 / 51-75 / 76-99 / 100

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: Deplorable

RQ:

Project: Estero Bay

- 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 1/24/20

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.	<u>Miranda Carroll</u>	<u>3/13/20</u>	<u>0707</u>	<u>23.81</u>	<u>760</u>	<u>8.4</u>	<u>8.48</u>	<u>100.4</u>		<u>-115.5</u>	<u>P / F</u>	<u>L / F</u>
ICV	<u>"</u>	<u>"</u>	<u>0710</u>	<u>23.89</u>	<u>760</u>	<u>8.4</u>	<u>8.45</u>	<u>100.1</u>			<u>P / F</u>	<u>L / F</u>
CCV	<u>"</u>	<u>"</u>	<u>1444</u>	<u>24.98</u>	<u>760</u>	<u>8.3</u>	<u>8.0</u>	<u>96.7</u>			<u>P / F</u>	<u>L / F</u>
CCV												

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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	<u>Miranda Carroll</u>	<u>3/13/20</u>	<u>0712</u>	<u>2912745</u>	<u>11/21</u>	<u>10,000</u>	<u>9999</u>	<u>P / F</u>	<u>L / F</u>
ICV	<u>"</u>	<u>"</u>	<u>0716</u>	<u>2001D14</u>	<u>1/22</u>	<u>1000</u>	<u>1017</u>	<u>P / F</u>	<u>L / F</u>
CCV	<u>"</u>	<u>"</u>	<u>1447</u>	<u>2909048</u>	<u>9/21</u>	<u>50,000</u>	<u>49531</u>	<u>P / F</u>	<u>L / F</u>
CCV									

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.	<u>Miranda Carroll</u>	<u>3/13/20</u>	<u>0719</u>	<u>195339</u>	<u>8/21</u>	<u>7.00</u>	<u>24.1</u>	<u>7.00</u>		<u>P / F</u>	<u>L / F</u>
Calibr.	<u>"</u>	<u>"</u>	<u>0723</u>	<u>194900</u>	<u>7/21</u>	<u>4.01</u>	<u>24.16</u>	<u>4.00</u>		<u>P / F</u>	<u>L / F</u>
Calibr.	<u>"</u>	<u>"</u>	<u>0728</u>	<u>196994</u>	<u>11/21</u>	<u>10.02</u>	<u>24.04</u>	<u>9.99</u>		<u>P / F</u>	<u>L / F</u>
ICV	<u>"</u>	<u>"</u>	<u>0731</u>	<u>194900</u>	<u>7/21</u>	<u>4.01</u>	<u>24.15</u>	<u>3.90</u>		<u>P / F</u>	<u>L / F</u>
CCV	<u>"</u>	<u>"</u>	<u>1449</u>	<u>196994</u>	<u>11/21</u>	<u>10.02</u>	<u>24.00</u>	<u>9.91</u>		<u>P / F</u>	<u>L / F</u>
CCV											

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: Deeper Blue Date of last verification: 12/20/19

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						<u>P / F</u>	<u>L / F</u>

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

COMMENTS:



Lee County Environmental Laboratory

Analysis Request

60 S Danley Dr Unit 2

Fort Myers, FL 33907

Phone: (239) 533-8600

Chain of Custody Record

LCCEL does not accept any samples used for evidentiary purposes

Lab Certification: E45049

LCCEL F COC 20150828R1

Report/Result Information

Billing/Invoice Information

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Name: FDEP - South		Name: DNRM		Matrix Codes:		Preservative Codes:	
ATTN: Kirby Wolfe		RE: EB Tribb		DW-Drinking water		NP-No Preservative	
Address: 2295 Victoria Ave, Suite 364		Address: 1500 Monroe St		GW - Ground water		N-Nitric Acid	
PO Box 2549		Ft Myers, FL 33901		WW - Waste water		S-Sulfuric Acid	
Ft Myers FL 33901-2549		Ft Myers, FL 33901		SW-Surface water		H-Hydrochloric Acid	
Phone: (239) 470-0873		Phone: (239) 533-8109		WWS-Wastewater Sludge		SH-Sodium Hydroxide	
Sample Collector(s) (please print): Miranda Carroll		Sample Collector Signature:		S-Sediment		ST-Sodium Thiosulfate	
Relinquished By: (signature)		Date: 1/9/20		Time: 1400		Received By: (signature)	
Relinquished By: (signature)		Date: 1/9/20		Time: 1400		Received By: (signature)	
Relinquished By: (signature)		Date: 1/9/20		Time: 1400		Received By: (signature)	
Sample(s) on ice ☒ Yes or ☐ No?		Temperature °C: 1.6		NP		NPF	
Collection Date		Sample Description & Location		Matrix (see codes)		# of Sample Containers Submitted	
3/13/20		HendGr01 pH= 7.63 SpCond (mS/cm) = 34845		SW		1	
3/13/20		HendGr02 pH= 7.50 SpCond (mS/cm) = 25322		SW		1	
3/13/20		MullGr01 pH= 7.69 SpCond (mS/cm) = 43843		SW		1	
3/13/20		MullGr02 pH= 7.60 SpCond (mS/cm) = 41561		SW		1	
3/13/20		EBTeb pH= 6.23 SpCond (mS/cm) = 12		FB		1	

Analyses Required	
\$Chloroa, _prep	O-PO4, Color, NOx
NH3, TKN, TN, NO3, ONIT, TOC	Turb, Clp, NO2, TSS, T-PO4, Silica, Bod, Bodi
Mug2QT, Entero	#WSMetals, THardC

Lab ID #
AE41423
AE41424
AE41425
AE41426
AE41427

SAMPLES SHOULD BE IN WET ICE & LESS THAN 6° C (42.8°F)

OR THEY MAYBE QUALIFIED*

*Qualified = the data may not be accurate and regulatory agencies may not accept qualified data.