

RQ-2019-05-13-30

Data Management (to be completed by field personnel)

- ☒ Date sampled Date: 5/22/19 initials: SP
- ☒ Entered into MAT Date: 5/23/19 initials: SP
- ☒ In SMP Tracker Date: 5/23/19 initials: SP
- ☒ RQ Sheet – from LIMS (display/print request)

Ready for folder system (top)

LIMS processing (to be completed by field/office personnel)

- ☐ Field Sheets scanned into local folder and
initialed/dated on Field Sheets Date: _____ initials: _____
- ☐ New Field IDs created (when appropriate) Date: _____ initials: _____ ☐ NA
- ☐ Field parameters entered into LIMS Date: _____ initials: _____
- ☐ Date submitted for QA/QC Date: _____ initials: _____
- ☐ Create entry in SMP Station Creation File if new station is used

Digital Archiving

- ☐ Digital field Sheets put into archive Date: _____ initials: _____
- ☐ Photos put into archive Date: _____ initials: _____ ☐ NA
- ☐ Lab results put into archive (CB/WB) Date: _____ initials: _____

WINS processing (Cheryl/Whitney)

- ☐ Field parameters QA/QC in LIMS Date: _____ initials: _____
- ☐ Data migrated to WINS Date: _____ initials: _____
- ☐ Update "Data Tracker" in SMP Tracker

Notes:

Date of Request: 15-APR-2019
 Created By: KING_M On: 15-APR-2019
 Modified By: JASROTIA_P On: 25-APR-2019
 Customer: NW-DIST
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District: Northwest District
 Sampling Event: Navarre Run

Send Coolers To:

Phone: 850-595-0605
 160 Government Center
 Suite 208
 Pensacola, FL 32502-5794
 Attn: Michael King

Program Module Number:
 Priority: 3
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 25-APR-2019
 Biology Request Reviewed By: JASROTIA_P On: 25-APR-2019
 Sampling Kit Required: YES Ship on: 07-MAY-2019
 Sampling Kit Shipped: YES On: 06-MAY-2019
 Sampling Kit Packed By: REAVES_S
 Preservatives Needed: NO
 Date to Receive Samples: 13-MAY-2019
 Received By: REAVES_S On: 23-MAY-2019

Send Final Report To:

160 Government Center
 Suite 208
 Pensacola, FL 32502-5794
 Attn: Cheryl Bunch

Report Type: Final Only
 FTP Data: NO
 QC Report: YES
 Date Log: NO
 Authorization Log: NO

Comments: Group A: Freshwater
 (WBID 833 864A) Nutrients, Bacteria
 Group B: Marinewater
 (WBID 893) Nutrients, Bacteria

Packing Notes:**Bottle Group A (Water) With 2 Samples:**

Bottle Type: P-1L	Number of Bottles: 2	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO ₃ /L
Total Alkalinity		
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Turbidity		
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
Chloride		
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Fluoride		
W-SO4-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices
Sulfate		
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
TDS		
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample
TSS		
Bottle Type: BP-1L	Number of Bottles: 2	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Chlorophyll-a, Corrected		

Bottle Group A (Water) With 2 Samples:

Bottle Type: BP-1L Number of Bottles: 2 Preserved With: ICE
 CHLSUITE-W Template: DEFAULT (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Chlorophyll-a, Uncorrected

Phaeophytin-a

Bottle Type: TEST HAS NO Number of Bottles: 2 Preserved With: ICE
 NW-UWF-ECQ Template: DEFAULT (SM 9223 B Quanti-Tray) E. coli by Colilert-18/QT by UWF in Pensacola
 Escherichia Coli-Quanti-Tray

Bottle Type: P-500ML Number of Bottles: 2 Preserved With: ICE And H2SO4
 W-NH3 Template: DEFAULT (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L

Ammonia-N

W-NO2NO3 Template: DEFAULT (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L

NO2NO3-N

W-S-A-TP Template: DEFAULT (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L

Total-P

W-TKN Template: DEFAULT (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices

Kjeldahl Nitrogen

W-TOC Template: DEFAULT (SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices

Organic Carbon

Bottle Type: P-125ML Number of Bottles: 2 Preserved With: FILTER-ICE
 W-PO4-F Template: DEFAULT (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

O-Phosphate-P

Bottle Group B (Water) With 1 Samples:

Bottle Type: P-125ML Number of Bottles: 1 Preserved With: FILTER-ICE
 W-PO4-F Template: DEFAULT (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

O-Phosphate-P

Bottle Type: BG-1L Number of Bottles: 4 Preserved With: ICE
 W-PSNP-TQ Template: DEFAULT (EPA 8270E) Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS

*Dimethenamid

*Dithiopyr

*Fipronil Desulfinyl

*Oxadiazon

*Prodiamine

*Tebuconazole

Acetochlor

Alachlor

Ametryn

Atrazine

Atrazine Desethyl

Azinphos Methyl

Bromacil

Butylate

Chlorpyrifos Ethyl

Chlorpyrifos Methyl

Cyanazine

Demeton

Diazinon

Disulfoton

EPTC

Ethion

Ethoprop

Fenamiphos

Fipronil

Fipronil Sulfide

Fipronil Sulfone

Fonofos

Hexazinone

Malathion

Metalaxyl

Metolachlor

Metribuzin



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Tom King Creek

Date: 5/22/19

WIN/ Field ID: G4NW0193

WBID: 833

Latitude: 30.43567008

County: Santa Rosa

ORG ID: 21FLPNS

Longitude: -86.93669843

Receiving Body of Water: East Bay

RQ-2019- 05-13-30

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
J. P. Jones									
F. B. B. B. B.									

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	

Depth Measured with _____
Equipment ID _____

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

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

Meter ID# 154179

Matrix: Fresh / Marine / DI

Photos: Yes / No

Flow: No Flow / Intestinal / 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 (umhos/cm)	Temp. (C°)
EST	0930	0.2	0.1	0.2	6.96	79.3	6.22	0.06	135.3	22.3
CEN				(S)						

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	SA8797090	7/16/19	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter	☒ Ice			
Chlorophyll	☒ W-HLSUITE-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	☐ W-FW-QLDC	☐ Formalin			
Periphyton	☐ W-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 ☐ W-E8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ W-DTY-QN-C ☐ W-PKD-QN-C	☐ Ice			

Notes:

Signature: *[Signature]*

Field/WIN ID: **G4NW0193**

Location: **TOM KING CREEK**

Date: 5/22/19

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 (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data in WIN: (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Williams Creek below Frankfort Avenue

Date: 5/22/19

WIN/ Field ID: G4NW0198

WBID: 864A

Latitude: 30.41202

County: Santa Rosa

ORG ID: 21FLPNS

Longitude: 86.89455

Receiving Body of Water: Santa Rosa Sound

RQ-2019-05-13-30

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
J. Pires					X	X	X	X	X
F. Rivera						X	X	X	X

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

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

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

Meter ID# 154179

Matrix: Fresh / Marine / DI

Photos: Yes No Flow: No Flow / Intestinal 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	0900	0.2	0.1	0.2	6.34	72.1	6.10	0.06	132.4	22.2
CEN				(5)						

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	SA819790	7/16/19	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ ZHLSUITE-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	☐ ML-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 ☐ W-E8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				

Notes:

Field/WIN ID →



G4NW0198

Location:

Williams Creek below Frankfort Avenue

Signature: *J. Pires*

Date: 5/22/19

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 (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?
Yes / No

WIN Station Name: Discharge from Tiger Point Golf Course at Maplewood Drive

Date: 5/22/19
(mm/dd/yyyy)

WIN/ Field ID: G4NW0211

WBID: 893

Latitude: 30.378589

County: Santa Rosa

ORG ID: 21FLPNS

Longitude: 87.086148
(Decimal Degrees)

Receiving Body of Water: Santa Rosa Sound

RQ-2019-05-13-30
(Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
J. P. Rivera									

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with 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# 123470
Matrix: Fresh / Marine / DI
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	1015	0.2	0.1	0.2	1.33	15.3	6.10*	0.08	171.2	24.2
CEN				(J)						

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	☒ NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	5A8192090	7/16/18	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
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-BR-IC / W-F / W-TSS / TURBIDITY	☒ Ice			
Macroinvertebrates	☐ ML-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☒ Enterococci	☒ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HFL83 ☐ 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 ☐ W-E8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				

Notes: * pH taken with prodSS
near # 154179

Field/WIN ID



G4NW0211

Location:

Discharge from Tiger Point Golf Course at Maplewood Drive

Signature:

Date:

5/22/19

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

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data in WIN:

(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SMP CONTINUOUS MONITORING SHEET

August 2017

PAGE ____ OF ____

Data Qualified?
Yes / No

STORET Station Name: Discharge of Tiger Point Golf Course

WBID: 893

STORET Station ID: G4NW0211

ORG ID: 21 FL PNS

Field ID: G4NW0211

County: Santa Rosa

RQ: 2019-05-13-30

Meter ID#: 123470

Pre-Deployment Setup

Date: 5/13/19

Performed by: Janes Ploss

Parameters
Recorded:

☒ Date ☒ Time ☒ Temp. (C) ☒ Sp. Cond. ☒ DOSAT ☒ DO (mg/L) ☐ pH ☒ Depth

Sampling Interval
(min): 15

Free Memory
(days): 174

Expected
Battery Life: 201

Programmed
Duration: 9 days

Sonde Filename: TIGR3

Reset Clock?
(Y or N) N

Programmed Start
Date/Time: 05/13/2019

(mm/dd/yyyy) 15:00:00 (hh:mm:ss) Cent. / East

Wipers Park
Correctly? Y

Programmed End
Date/Time: 05/22/2019

(mm/dd/yyyy) 15:00:00 (hh:mm:ss) Cent. / East

Calibration Date 5/13/19

Deployment

Date: 5/13/19

Time Into Water: 1345

Time Zone: Cent. / East.

Deployed Sonde
Latitude: 30.378589

Deployed By:
(print all staff
present)

Janes Ploss
Mysanda Clark

Deployed Sonde
Longitude: -87.086148

Notes: (how to get to, landmarks, site considerations & concerns, etc.)

pH parameter not set to record

Photos: Yes / No

Retrieval

Date: 5/22/2019

Time Out Of Water: 0900

Time Zone: Cent. / East.

Mounting left or
removed? Removed

Retrieved By:

Janes Ploss
Frank Rivera

Notes: (significant fouling, signs of human disturbance, site considerations and concerns, etc.)

- Some algal build up
- Depth measurements possibly affected by housing positioning

- Sensors well in water @ retrieval, WQ data stable and intact

Post-Deployment

Date: 5/24/2019

Performed by: Janes Ploss

Data File Downloaded? Yes / No

Archived Filename: 05222019_data

Meter Verification Date: 5/22/2019

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: 123470

RQ: 2019-05-13-30

Project: Cont. Monitoring

- 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 5/6/19

DO DEP SO	Name	Date	Time	Temp	DO	Meter	DO	DO	DO	DO	DO	DO
FT 1500			GT 5		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Calibr.											P/F	L/F
ICV											P/F	L/F
CCV	J. P. 945	5/13/19	1225	23.9	8434	835	99.1	—	1.02	①/F	①/F	
CCV	J. P. 945	5/22/19	1420	23.9	8434	837	99.3	—	—	①/F	①/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.

DO DEP SO	Name	Date	Time	Temp	DO	Meter	DO	DO	DO	DO	DO	DO
FT 200			GT 5		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Calibr.	J. P. 945	5/13/19	1227	190116A	1/2020	1000	1000	①/F	①/F			
ICV	↓	↓	1229	180517A	5/2019	100	104	①/F	①/F			
CCV	J. P. 945	5/22/19	1420	190116A	1/2020	1000	1005	①/F	①/F			
CCV								P/F	L/F			

Conductivity Acceptance criteria $\pm 5\%$

DO DEP SO	Name	Date	Time	Temp	DO	Meter	DO	DO	DO	DO	DO	DO
FT 100			GT 5		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Calibr.							7.0			P/F	L/F	
Calibr.							4.0			P/F	L/F	
Calibr.							10.0			P/F	L/F	
ICV										P/F	L/F	
CCV										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 5/6/19

Depth Sensor	Name	Date	Time	Calibrated	Calibrated	Calibrated	Calibrated	Calibrated	Calibrated	Calibrated	Calibrated	Calibrated
Depth Sensor			GT 5	Value (m)	Value (m)	Value (m)	Value (m)	Value (m)	Value (m)	Value (m)	Value (m)	Value (m)
Pressure mode in air	J. P. 945	5/13/19	1231	0.00	0.00	①/F	①/F					

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

COMMENTS:

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: 154179

RQ: 2019-05-13-30

Project: SLP

- 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 1/11/2019

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	J. P. JMS	5/22/19	0725	24.3	765.9	8371	843	99.8	-	-	P / F	L / F
CCV	J. P. JMS	5/22/19	1410	24.2	767.2	8387	845	99.7	-	-	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 μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	J. P. JMS	5/22/19	0727	190116A	1/2020	1000	1000	P / F	L / F
ICV			0729	180517A	5/2019	100	104	P / F	L / F
CCV	J. P. JMS	5/22/19	1412	190116A	1/2020	1000	993	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	J. P. JMS	5/22/19	0731	2811803	10/2020	7.	24.0	7.00	-55.0	P / F	L / F
Calibr.			0733	4812966	11/2020	4.	23.9	4.00	128.3	P / F	L / F
Calibr.			0735	2804620	10/2019	10.	23.6	10.00	-221.1	P / F	L / F
ICV			0737	2804620	10/2019	10.0	23.6	10.00	-	P / F	L / F
CCV	J. P. JMS	5/22/19	1414	4812966	11/2020	4.0	23.1	4.2	-	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 10 166.1, slope from 4 to 7 183.3 (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: 1/11/2019

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	J. P. JMS	5/22/19	0739	0.00	0.00	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: