

RQ-2019-06-17-33

**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

\\Fidep1\wqap\NW ROC\TMDL\WIN\_Station Creation

☒ Date sampled Date: 6/20/19 initials: JP

☒ Update MAT Date: 6/24/19 initials: JP

☒ Update "SMP Tracker" Date: 6/24/19 initials: JP

☐ Photos put into archive Date: \_\_\_\_\_ initials: \_\_\_\_\_ ~~NA~~

☒ RQ Sheet – from LIMS (display/print request)

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

Scans\_ToBeProcessed Date: 6/28/19 initials: JP

☒ 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:

Date of Request: 05-JUN-2019  
 Created By: KING\_M On: 05-JUN-2019  
 Modified By: JASROTIA\_P On: 06-JUN-2019  
 Customer: NW-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northwest District  
 Sampling Event: Perdido/Bridge

**Send Coolers To:**

Phone: 850-287-0382  
 160 Government Center  
 Suite 208A  
 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: 06-JUN-2019  
 Biology Request Reviewed By: JASROTIA\_P On: 06-JUN-2019  
 Sampling Kit Required: NO Ship on:  
 Sampling Kit Shipped:  
 Sampling Kit Packed By:  
 Preservatives Needed: NO  
 Date to Receive Samples: 20-JUN-2019  
 Received By: REYNOLDS\_T On: 21-JUN-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: (WBID 935) Marinewater  
 Nutrients

**Bottle Group A (Water) With 1 Samples:**

|                            |                      |                                                                                                              |
|----------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L          | Number of Bottles: 1 | Preserved With: ICE                                                                                          |
| ALKALINITY                 | Template: DEFAULT    | (SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO <sub>3</sub> /L                                     |
| Total Alkalinity           |                      |                                                                                                              |
| TURBIDITY                  | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                           |
| Turbidity                  |                      |                                                                                                              |
| W-BR-IC                    | Template: DEFAULT    | (EPA 300.0) Bromide in aqueous matrices                                                                      |
| Bromide                    |                      |                                                                                                              |
| 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: 1 | Preserved With: ICE                                                                                          |
| CHLSUITE-W                 | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |
| Chlorophyll-a, Corrected   |                      |                                                                                                              |
| Chlorophyll-a, Uncorrected |                      |                                                                                                              |
| Phaeophytin-a              |                      |                                                                                                              |

**Bottle Group A (Water) With 1 Samples:**

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | 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: 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        |                      |                                                                                          |

# 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 page.

Meter ID: 123470

RQ: 2019-06-17-33

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      | Name     | Date    | Time | Temp | DO    | Meter | WDO   | DO  | Probe  | Pass | Lab   |
|---------|----------|---------|------|------|-------|-------|-------|-----|--------|------|-------|
| F1500   |          |         |      |      | Chart | D.O.  |       |     | Charge | Gain | Field |
|         |          |         |      |      | m/L   | m/L   |       |     |        |      |       |
| Calibr. |          |         |      |      |       |       |       |     |        | P/F  | L/F   |
| ICV     |          |         |      |      |       |       |       |     |        | P/F  | L/F   |
| CCV     | J. Potts | 6/13/19 | 1000 | 25.4 | 8203  | 8.25  | 100.4 | 100 | 1.02   | P/F  | L/F   |
| CCV     | J. Potts | 6/20/19 | 1100 | 26.0 | 8114  | 8.10  | 99.6  | —   | —      | P/F  | L/F   |

DO Acceptance criteria from Table  $\pm 0.3$  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    | Name     | Date    | Time | Conductivity | Expir  | Standard     | Temp         | Pass  | Lab   |
|---------|----------|---------|------|--------------|--------|--------------|--------------|-------|-------|
| Conduct |          |         |      |              | Date   | Conductivity | Conductivity | Field | Field |
| FT1200  |          |         |      |              |        |              |              |       |       |
| Calibr. | J. Potts | 6/13/19 | 1002 | 190405D      | 4/2020 | 1000         | 1000         | P/F   | L/F   |
| ICV     |          |         |      | 190405C      | 4/2020 | 100          | 104          | P/F   | L/F   |
| CCV     | J. Potts | 6/20/19 | 1102 | 190405C      | 4/2020 | 100          | 99           | P/F   | L/F   |
| CCV     |          |         |      |              |        |              |              | P/F   | L/F   |

Conductivity Acceptance criteria  $\pm 5\%$

| pH      | Name | Date | Time | pH | Expir | pH     | Temp    | Pass  | Lab   |
|---------|------|------|------|----|-------|--------|---------|-------|-------|
| F1100   |      |      |      |    | Date  | Buffer | Reading | Field | Field |
|         |      |      |      |    |       | SU     | SU      |       |       |
| 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  $\pm 0.2$  SU; mV pH 7 Range  $0 \pm 50$ ;

mV pH 4 Range  $+180 \pm 50$ ;

mV pH 10 Range  $-180 \pm 50$ ;

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 | ICV Value | Pass  | Lab   |
|----------------------|----------|---------|------|------------|-----------|-------|-------|
| Daily Calibration    |          |         |      | Value      | Value     | Field | Field |
| ICV                  |          |         |      | Onset      | Onset     |       |       |
| Pressure mode in air | J. Potts | 6/13/19 | 1006 | 0.00       | 0.00      | P/F   | L/F   |

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

COMMENTS:



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Weekly Bayou Creek @ County Rd. 293 Date: 6/20/2019  
(mm/dd/yyyy)

WIN/ Field ID: G4NW0482 WBID: 935 Latitude: 30.352278  
(Decimal Degrees)

County: Escambia ORG ID: 21FLPMS Longitude: -87.403041  
(Decimal Degrees)

Receiving Body of Water: Perdido Bay RQ-2019-06-17-33

| Sampling Team Members |  |  |  |  | WQ Measurements                     | Sample Collection                   | Documentation                       | Preservation                        | Preservation Check                  |
|-----------------------|--|--|--|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <u>J. PMS</u>         |  |  |  |  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
|                       |  |  |  |  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
|                       |  |  |  |  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
|                       |  |  |  |  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |

| Sampling Equipment                                   |                                         |                               |
|------------------------------------------------------|-----------------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn       | <input type="checkbox"/> Pole |
| <input type="checkbox"/> Carboy                      | <input type="checkbox"/> Syringe        |                               |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other          |                               |
| Depth Measured with _____                            |                                         |                               |
| Equipment ID _____                                   |                                         |                               |
| Collection Method                                    |                                         |                               |
| <input checked="" type="checkbox"/> Wading           | <input type="checkbox"/> Canoe/Kayak    |                               |
| <input type="checkbox"/> From Shore                  | <input type="checkbox"/> Electric Motor |                               |
| <input type="checkbox"/> Other                       | <input type="checkbox"/> Gasoline Motor |                               |

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded Meter ID# 123470 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       | <u>0945</u> | <u>0.3</u>      | <u>0.2</u>       | <u>0.3</u>      | <u>5.33</u> | <u>64.0</u> | <u>4.04*</u> | <u>0.03</u>    | <u>61.7</u>        | <u>25.0</u> |
| CEN       |             |                 |                  | <u>(S)</u>      |             |             |              |                |                    |             |

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         | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                        | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 | <u>5A8274050</u> | <u>10/01/19</u> | <input checked="" type="checkbox"/> <2 |
| Metals                      | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                                                                                                                        | <input type="checkbox"/> Ice <input type="checkbox"/> HNO3                        |                  |                 | <input type="checkbox"/> <2            |
| Filtered Nutrients          | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                          | <input checked="" type="checkbox"/> Ice                                           |                  |                 |                                        |
| Chlorophyll                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                         | <input checked="" type="checkbox"/> Ice                                           |                  |                 |                                        |
| Physical/Aggregate (Fresh)  | <input checked="" type="checkbox"/> Alkalinity / W-E / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                        | <input checked="" type="checkbox"/> Ice                                           |                  |                 |                                        |
| Physical/Aggregate (Marine) | <input checked="" type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                                                                                                                     | <input checked="" type="checkbox"/> Ice                                           |                  |                 |                                        |
| Macroinvertebrates          | <input type="checkbox"/> MI-FW-QLDC                                                                                                                                                                                    | <input type="checkbox"/> Formalin                                                 |                  |                 |                                        |
| Periphyton                  | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                      | <input type="checkbox"/> Ice                                                      |                  |                 |                                        |
| Microbiology                | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci                                                                                                                   | <input type="checkbox"/> Ice                                                      |                  |                 |                                        |
| Molecular                   | <input type="checkbox"/> PCR-FILTER <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-GULL2<br><input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-DG3 <input type="checkbox"/> PCR-GFD       | <input type="checkbox"/> Ice                                                      |                  |                 |                                        |
| Tracers                     | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                                | <input type="checkbox"/> Ice                                                      |                  |                 |                                        |
| Pesticides                  | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CL-R <input type="checkbox"/> W-E8321-DI<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> WE8321-MS <input type="checkbox"/> W-CARB-AA | <input type="checkbox"/> Ice                                                      |                  |                 |                                        |
| Phytoplankton               | <input type="checkbox"/> DTY-QN-C <input type="checkbox"/> PKD-QN-C                                                                                                                                                    | <input type="checkbox"/> Ice                                                      |                  |                 |                                        |

Notes: \* pH taken with meter 154179

Ref: \_\_\_\_\_ Date: 01Feb19 SHIPPING: 0.00  
Dep: \_\_\_\_\_ Wgt: 10.00 LBS SPECIAL: 0.00  
DV: \_\_\_\_\_ 0.00 HANDLING: 0.00  
TOTAL: 0.00

Svcs: PRIORITY OVERNIGHT Master 4751 8776 3946  
TRACK: 4751 8776 3946

Signature: [Signature] Date: 6/20/19

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: Weekly Bayou Creek @ County Rd. 293 WBID: 935

STORET Station ID: G4NW0482 ORG ID: 21 FL PMS

Field ID: G4NW0482 County: Escambia RQ: 2019-06-17-33

|                                                           |                                               |                                           |                                                |
|-----------------------------------------------------------|-----------------------------------------------|-------------------------------------------|------------------------------------------------|
| Meter ID# : <u>123470</u>                                 |                                               |                                           |                                                |
| <b>Pre-Deployment Setup</b>                               |                                               |                                           |                                                |
| Date: <u>6/13/19</u>                                      |                                               | Performed by: <u>James PMS</u>            |                                                |
| Parameters Recorded:                                      | <input checked="" type="checkbox"/> Date      | <input checked="" type="checkbox"/> Time  | <input checked="" type="checkbox"/> Temp. (C°) |
|                                                           | <input checked="" type="checkbox"/> Sp. Cond. | <input checked="" type="checkbox"/> DOSAT | <input checked="" type="checkbox"/> DO (mg/L)  |
|                                                           | <input type="checkbox"/> pH                   | <input checked="" type="checkbox"/> Depth |                                                |
| Sampling Interval (min): <u>15</u>                        | Free Memory (days): <u>246</u>                | Expected Battery Life: <u>202</u>         | Programmed Duration: <u>9 days</u>             |
| Sonde Filename: <u>Weekly3</u>                            |                                               |                                           | Reset Clock? (Y or N) <u>N</u>                 |
| Programmed Start Date/Time: <u>6/13/2019</u> (mm/dd/yyyy) | <u>12:00:00</u> (hh:mm:ss)                    | <u>Cent</u> / East                        | Wipers Park Correctly? <u>Y</u>                |
| Programmed End Date/Time: <u>6/22/2019</u> (mm/dd/yyyy)   | <u>12:00:00</u> (hh:mm:ss)                    | <u>Cent</u> / East                        | Calibration Date <u>6/13/19</u>                |

|                                                                                                   |                               |                              |                                |
|---------------------------------------------------------------------------------------------------|-------------------------------|------------------------------|--------------------------------|
| <b>Deployment</b>                                                                                 |                               |                              |                                |
| Date: <u>6/13/19</u>                                                                              |                               | Time Into Water: <u>1100</u> | Time Zone: <u>Cent</u> / East. |
| Deployed Sonde Latitude: <u>30.352278</u>                                                         | Deployed By: <u>James PMS</u> |                              | (print all staff present)      |
| Deployed Sonde Longitude: <u>-87.403041</u>                                                       |                               |                              |                                |
| Notes: (how to get to, landmarks, site considerations & concerns, etc.)<br><u>Low flow @ site</u> |                               |                              |                                |
| Photos : Yes / <u>No</u>                                                                          |                               |                              |                                |

|                                                                                                  |                                |                                |                                |
|--------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|--------------------------------|
| <b>Retrieval</b>                                                                                 |                                |                                |                                |
| Date: <u>6/20/2019</u>                                                                           |                                | Time Out Of Water: <u>0945</u> | Time Zone: <u>Cent</u> / East. |
| Mounting left or removed? <u>Removed</u>                                                         | Retrieved By: <u>James PMS</u> |                                |                                |
| Notes: (significant fouling, signs of human disturbance, site considerations and concerns, etc.) |                                |                                |                                |

|                                           |                                         |
|-------------------------------------------|-----------------------------------------|
| <b>Post-Deployment</b>                    |                                         |
| Date: <u>6/24/2019</u>                    | Performed by: <u>James PMS</u>          |
| Data File Downloaded? <u>Yes</u> / No     | Archived Filename: <u>06202019_data</u> |
| Meter Verification Date: <u>6/20/2019</u> |                                         |