

Date of Request: 22-JUL-2019  
 Created By: KING\_M On: 22-JUL-2019  
 Modified By: JASROTIA\_P On: 29-JUL-2019  
 Customer: NW-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: NWROC  
 Sampling Event: Dune Lakes

**Send Coolers To:**

Phone: 850-595-8300  
 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-JUL-2019  
 Biology Request Reviewed By: JASROTIA\_P On: 29-JUL-2019  
 Sampling Kit Required: YES Ship on: 05-AUG-2019  
 Sampling Kit Shipped: YES On: 05-AUG-2019  
 Sampling Kit Packed By: REYNOLDS\_T  
 Preservatives Needed: NO  
 Date to Receive Samples: 12-AUG-2019  
 Received By: REYNOLDS\_T On: 13-AUG-2019

**Send Final Report To:**

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

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

Comments: Group A: Freshwater  
 (WBID 959F) Nutrients, Contract Lab Bacteria, Tracers, Markers  
  
 Group B: Marinerwater  
 (WBID 1037 959C 959J) Nutrients, Contract Lab Bacteria

**Bottle Group A (Water) With 3 Samples:**

|                            |                      |                                                                                                              |
|----------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L          | Number of Bottles: 3 | Preserved With: ICE                                                                                          |
| ALKALINITY                 | Template: DEFAULT    | (SM 2320 B-2011) 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-CL-IC                    | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                            |
| Chloride                   |                      |                                                                                                              |
| W-COLOR                    | Template: DEFAULT    | (SM 2120 B-2011) True Color measured at 450 nm (not valid for NPDES monitoring)                              |
| Color (true)               |                      |                                                                                                              |
| W-F                        | Template: DEFAULT    | (SM 4500 F-C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)       |
| Fluoride                   |                      |                                                                                                              |
| W-SO <sub>4</sub> -IC      | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                             |
| Sulfate                    |                      |                                                                                                              |
| W-TDS                      | Template: DEFAULT    | (SM 2540 C-2011) Total Dissolved Solids in aqueous matrices                                                  |
| TDS                        |                      |                                                                                                              |
| W-TSS                      | Template: DEFAULT    | (SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample              |
| TSS                        |                      |                                                                                                              |
| Bottle Type: BP-1L         | Number of Bottles: 3 | 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 3 Samples:**

|                                 |                         |                                                                                                                                 |
|---------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: TEST HAS NO        | Number of Bottles: 3    | 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: QPCR-P-500ML       | Number of Bottles: 3    | Preserved With: ICE                                                                                                             |
| PCR-BACR    Template: DEFAULT   | (SOP-PCR-1.4)           | Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction |
| *BacR-qPCR                      |                         |                                                                                                                                 |
| PCR-DG3    Template: DEFAULT    | (SOP-PCR-1.5)           | Detection and quantification of canine-specific DG3 Bacteroides genetic marker with quantitative polymerase chain reaction      |
| *DG3-qPCR                       |                         |                                                                                                                                 |
| PCR-HF183    Template: DEFAULT  | (SOP-PCR-1.0)           | Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction     |
| *HF183-qPCR                     |                         |                                                                                                                                 |
| Bottle Type: BG-500ML           | Number of Bottles: 3    | Preserved With: ICE                                                                                                             |
| W-E8321-DI    Template: DEFAULT | (EPA 8321B)             | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                     |
| *Acesulfame K                   |                         |                                                                                                                                 |
| *AMPA                           |                         |                                                                                                                                 |
| *Endothall                      |                         |                                                                                                                                 |
| *Glufosinate                    |                         |                                                                                                                                 |
| *Glyphosate                     |                         |                                                                                                                                 |
| *Sucralose                      |                         |                                                                                                                                 |
| W-E8321-MS    Template: DEFAULT | (EPA 8321B)             | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                     |
| *Acetaminophen                  |                         |                                                                                                                                 |
| *Acetamiprid                    |                         |                                                                                                                                 |
| *Afidopyropen                   |                         |                                                                                                                                 |
| *Benzovindiflupyr               |                         |                                                                                                                                 |
| *Carbamazepine                  |                         |                                                                                                                                 |
| *Clothianidin                   |                         |                                                                                                                                 |
| *Dinotefuran                    |                         |                                                                                                                                 |
| *Fluridone                      |                         |                                                                                                                                 |
| *Hydrocodone                    |                         |                                                                                                                                 |
| *Ibuprofen                      |                         |                                                                                                                                 |
| *Imazapyr                       |                         |                                                                                                                                 |
| *Mandestrobin                   |                         |                                                                                                                                 |
| *Naproxen                       |                         |                                                                                                                                 |
| *Primidone                      |                         |                                                                                                                                 |
| *Pyraclostrobin                 |                         |                                                                                                                                 |
| *Thiamethoxam                   |                         |                                                                                                                                 |
| *Tolfenpyrad                    |                         |                                                                                                                                 |
| *Triclopyr                      |                         |                                                                                                                                 |
| 2,4-D                           |                         |                                                                                                                                 |
| Bentazon                        |                         |                                                                                                                                 |
| Diuron                          |                         |                                                                                                                                 |
| Fenuron                         |                         |                                                                                                                                 |
| Imidacloprid                    |                         |                                                                                                                                 |
| Linuron                         |                         |                                                                                                                                 |
| MCP                             |                         |                                                                                                                                 |
| Bottle Type: P-500ML            | Number of Bottles: 3    | 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-2011)        | Nonpurgeable Organic Carbon in aqueous matrices                                                                                 |
| Organic Carbon                  |                         |                                                                                                                                 |
| Bottle Type: P-125ML            | Number of Bottles: 3    | 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 3 Samples:**

|                            |                      |                                                                                                              |
|----------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: TEST HAS NO   | Number of Bottles: 3 | Preserved With: ICE                                                                                          |
| NW-UWF-ENQ                 | Template: DEFAULT    | (Enterolert/QT) Enterococci by Enterolert/QT by UWF in Pensacola                                             |
| Enterococci-Quanti-Tray    |                      |                                                                                                              |
| Bottle Type: P-500ML       | Number of Bottles: 3 | 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-2011) Nonpurgeable Organic Carbon in aqueous matrices                                             |
| Organic Carbon             |                      |                                                                                                              |
| Bottle Type: P-125ML       | Number of Bottles: 3 | 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: P-1L          | Number of Bottles: 3 | Preserved With: ICE                                                                                          |
| ALKALINITY                 | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/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 Rev. 2.1) Bromide in aqueous matrices                                                             |
| Bromide                    |                      |                                                                                                              |
| W-F                        | Template: DEFAULT    | (SM 4500 F-C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)       |
| Fluoride                   |                      |                                                                                                              |
| W-TSS                      | Template: DEFAULT    | (SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample              |
| TSS                        |                      |                                                                                                              |
| Bottle Type: BP-1L         | Number of Bottles: 3 | 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              |                      |                                                                                                              |

\* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.