

Date of Request: 16-MAY-2019  
 Created By: PARRISH\_J On: 16-MAY-2019  
 Modified By: WATTS\_J On: 21-JUN-2019  
 Customer: NE-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northeast District  
 Sampling Event: ICW Boat

**Send Coolers To:**

Phone: 904-256-1693  
 8800 Baymeadows Way West  
 Suite 100  
 Jacksonville, FL 32256  
 Attn: Jeremy Parrish

Program Module Number:  
 Priority: 3  
 Event Status: R  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 21-JUN-2019  
 Biology Request Reviewed By: SWANSON\_C On: 20-JUN-2019  
 Sampling Kit Required: YES Ship on: 24-JUN-2019  
 Sampling Kit Shipped: YES On: 24-JUN-2019  
 Sampling Kit Packed By: REYNOLDS\_T  
 Preservatives Needed: NO  
 Date to Receive Samples: 24-JUN-2019  
 Received By: KLUG\_K On: 28-JUN-2019

**Send Final Report To:**

8800 Baymeadows Way West  
 Suite 100  
 Jacksonville, FL 32256  
 Attn: Jeremy Parrish

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

Comments: Group A: (Surf-Salt)Nutrients, Metals, pesticides, markers, tracers, bacteria  
 Group B: (Surf-Salt)Nutrients, Metals, Markers, Tracers, Bacteria  
 Group C:(Surf-Salt) Bacteria

NE-ALS-ENQ  
 Packing Notes:

**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 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)          | Bromide in aqueous matrices                                                         |
| Bromide                      |                      |                                                                                     |
| W-F Template: DEFAULT        | (SM 4500 F-C-97)     | Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) |
| Fluoride                     |                      |                                                                                     |
| 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: 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         |                      |                                                                                     |

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                        |
| *Oxadiazon<br>*Prodiamine<br>*Tebuconazole<br>Acetochlor<br>Alachlor<br>Ametryn<br>Atrazine<br>Atrazine Desethyl<br>Azinphos Methyl<br>Bromacil<br>Butylate<br>Chlorpyrifos Ethyl<br>Chlorpyrifos Methyl<br>Cyanazine<br>Demeton<br>Diazinon<br>Disulfoton<br>EPTC<br>Ethion<br>Ethoprop<br>Fenamiphos<br>Fipronil<br>Fipronil Sulfide<br>Fipronil Sulfone<br>Fonofos<br>Hexazinone<br>Malathion<br>Metalaxyl<br>Metolachlor<br>Metribuzin<br>Mevinphos<br>Molinate<br>Norflurazon<br>Parathion Ethyl<br>Parathion Methyl<br>Pendimethalin<br>Phorate<br>Prometon<br>Prometryn<br>Simazine<br>Terbufos<br>Terbutylazine |                      |                                                                                                                                           |
| 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<br>Chlorophyll-a, Uncorrected<br>Phaeophytin-a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |                                                                                                                                           |
| Bottle Type: P-250ML-WI-THI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Number of Bottles: 1 | Preserved With: ICE                                                                                                                       |
| NE-ALS-ENQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Template: DEFAULT    | (ASTM D650399) Enterococci by Enterolert/QT by ALS in Jacksonville                                                                        |
| ENTEROCOCCI-ENTEROLERT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      |                                                                                                                                           |
| Bottle Type: QPCR-P-500ML                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Number of Bottles: 1 | Preserved With: ICE                                                                                                                       |
| 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: 1 | Preserved With: CH <sub>2</sub> ClCOOH Pre-Preserved                                                                                      |
| W-CARB-AA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Template: DEFAULT    | (EPA 8321B) Carbamates in water matrices by HPLC/MS/MS                                                                                    |
| 3-Hydroxycarbofuran<br>Aldicarb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |                                                                                                                                           |

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

Bottle Type: BG-500ML      Number of Bottles: 1      Preserved With: CH<sub>2</sub>ClCOOH Pre-Preserved  
 W-CARB-AA      Template: DEFAULT      (EPA 8321B) Carbamates in water matrices by HPLC/MS/MS

Aldicarb Sulfone  
 Aldicarb Sulfoxide  
 Carbaryl  
 Carbofuran  
 Methiocarb  
 Methomyl  
 Oxamyl  
 Propoxur

Bottle Type: BG-500ML      Number of Bottles: 4      Preserved With: ICE  
 W-CT-CI-R      Template: DEFAULT      (EPA 8276) Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization

Chlordane  
 Toxaphene

W-PCL-SQ-R      Template: DEFAULT      (EPA 8270E) Organochlorine pesticides in water matrices by GC/MS-SIM

\*Bifenthrin  
 \*Cis-Nonachlor  
 \*Ethalfuralin  
 \*Hexachlorobenzene  
 \*Trans-Nonachlor  
 Aldrin  
 Alpha-BHC  
 Alpha-Chlordane  
 Beta-BHC  
 Carbophenothion  
 Chlorothalonil  
 Cypermethrin  
 DDD-p,p'  
 DDE-p,p'  
 DDT-p,p'  
 Delta-BHC  
 Dicofof  
 Dieldrin  
 Endosulfan I  
 Endosulfan II  
 Endosulfan Sulfate  
 Endrin  
 Endrin Aldehyde  
 Endrin Ketone  
 Gamma-BHC  
 Gamma-Chlordane  
 Heptachlor  
 Heptachlor Epoxide  
 Methoxychlor  
 Mirex  
 Permethrin  
 Trifluralin

Bottle Type: BG-500ML      Number of Bottles: 1      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:      (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

\*Acetaminophen  
 \*Carbamazepine  
 \*Fluridone  
 \*Hydrocodone

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

|                                                                                                                                                                  |                      |                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------|
| Bottle Type: BG-500ML                                                                                                                                            | Number of Bottles: 1 | Preserved With: ICE                                                                     |
| W-E8321-MS                                                                                                                                                       | Template:            | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS |
| *Ibuprofen<br>*Imazapyr<br>*Naproxen<br>*Primidone<br>*Pyraclostrobin<br>*Triclopyr<br>2,4-D<br>Bentazon<br>Diuron<br>Fenuron<br>Imidacloprid<br>Linuron<br>MCPP |                      |                                                                                         |

|                                                                                                                      |                      |                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML                                                                                                 | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| W-ICP                                                                                                                | Template: S-METALS   | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Iron<br>Manganese<br>Zinc                                                                                            |                      |                                                                                                                                                |
| W-ICPMS                                                                                                              | Template:            | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Aluminum<br>Antimony<br>Arsenic<br>Cadmium<br>Chromium<br>Copper<br>Lead<br>Nickel<br>Selenium<br>Silver<br>Thallium |                      |                                                                                                                                                |

|                      |                      |                                                                     |
|----------------------|----------------------|---------------------------------------------------------------------|
| 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 Group B (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 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) Bromide in aqueous matrices                                                              |
| Bromide            |                      |                                                                                                      |
| W-F                | Template: DEFAULT    | (SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) |
| Fluoride           |                      |                                                                                                      |
| 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                                                                                  |

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

|                             |                      |                                                                                                                                                |
|-----------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 Type: P-250ML-WI-THI | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| NE-ALS-ENQ                  | Template: DEFAULT    | (ASTM D650399) Enterococci by Enterolert/QT by ALS in Jacksonville                                                                             |
| ENTEROCOCCI-ENTEROLERT      |                      |                                                                                                                                                |
| Bottle Type: QPCR-P-500ML   | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| 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: 1 | 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:            | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                        |
| *Acetaminophen              |                      |                                                                                                                                                |
| *Carbamazepine              |                      |                                                                                                                                                |
| *Fluridone                  |                      |                                                                                                                                                |
| *Hydrocodone                |                      |                                                                                                                                                |
| *Ibuprofen                  |                      |                                                                                                                                                |
| *Imazapyr                   |                      |                                                                                                                                                |
| *Naproxen                   |                      |                                                                                                                                                |
| *Primidone                  |                      |                                                                                                                                                |
| *Pyraclostrobin             |                      |                                                                                                                                                |
| *Triclopyr                  |                      |                                                                                                                                                |
| 2,4-D                       |                      |                                                                                                                                                |
| Bentazon                    |                      |                                                                                                                                                |
| Diuron                      |                      |                                                                                                                                                |
| Fenuron                     |                      |                                                                                                                                                |
| Imidacloprid                |                      |                                                                                                                                                |
| Linuron                     |                      |                                                                                                                                                |
| MCP                         |                      |                                                                                                                                                |
| Bottle Type: P-500ML        | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| W-ICP                       | Template: S-METALS   | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Iron                        |                      |                                                                                                                                                |
| Manganese                   |                      |                                                                                                                                                |
| Zinc                        |                      |                                                                                                                                                |
| W-ICPMS                     | Template:            | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Aluminum                    |                      |                                                                                                                                                |
| Antimony                    |                      |                                                                                                                                                |
| Arsenic                     |                      |                                                                                                                                                |
| Cadmium                     |                      |                                                                                                                                                |
| Chromium                    |                      |                                                                                                                                                |
| Copper                      |                      |                                                                                                                                                |
| Lead                        |                      |                                                                                                                                                |
| Nickel                      |                      |                                                                                                                                                |
| Selenium                    |                      |                                                                                                                                                |
| Silver                      |                      |                                                                                                                                                |
| Thallium                    |                      |                                                                                                                                                |
| 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                   |                      |                                                                                                                                                |

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

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: ICE And H2SO4                                                            |
| 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        |                      |                                                                                          |

**Bottle Group C (Water) With 2 Samples:**

|                             |                      |                                                                    |
|-----------------------------|----------------------|--------------------------------------------------------------------|
| Bottle Type: P-250ML-WI-THI | Number of Bottles: 2 | Preserved With: ICE                                                |
| NE-ALS-ENQ                  | Template: DEFAULT    | (ASTM D650399) Enterococci by Enterolert/QT by ALS in Jacksonville |
| ENTEROCOCCI-ENTEROLERT      |                      |                                                                    |

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