

Date of Request: 15-JUL-2019  
 Created By: PARRISH\_J On: 15-JUL-2019  
 Modified By: JASROTIA\_P On: 31-JUL-2019  
 Customer: NE-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northeast District  
 Sampling Event: Bmap 1

**Send Coolers To:**

Phone: 904-807-3300  
 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: 30-JUL-2019  
 Biology Request Reviewed By: JASROTIA\_P On: 31-JUL-2019  
 Sampling Kit Required: YES Ship on: 09-AUG-2019  
 Sampling Kit Shipped: YES On: 05-AUG-2019  
 Sampling Kit Packed By: KLUG\_K  
 Preservatives Needed: NO  
 Date to Receive Samples: 19-AUG-2019  
 Received By: SHAIK\_A On: 22-AUG-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, Bacteria, Tracer, Marker  
 Group B: (Surf-Fresh) Nutrients, Bacteria, Tracer, Marker  
 Group C: (Surf-Fresh) Nutrients, Metals, Bacteria  
 Group D: (Surf-Salt) Bacteria, Marker, tracer  
 Group E: (Surf-Fresh) Bacteria,

NE-ALS-ECQ  
 NE-ALS-ENQ

Packing Notes:  
 None

**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-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                                                                                          |
| 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                                                                                          |

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

|                             |                      |                                                                                                                                           |
|-----------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 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: 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: 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               |                      |                                                                                                                                           |

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

|                              |                      |                                                                       |
|------------------------------|----------------------|-----------------------------------------------------------------------|
| Bottle Type: P-250ML-WI-THI  | Number of Bottles: 3 | Preserved With: ICE                                                   |
| NE-ALS-ECQ                   | Template: DEFAULT    | (SM 9223 B Quanti-Tray) E. coli by Colilert/QT by ALS in Jacksonville |
| Escherichia Coli-Quanti-Tray |                      |                                                                       |
| Bottle Type: QPCR-P-500ML    | Number of Bottles: 3 | Preserved With: ICE                                                   |

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

Bottle Type: QPCR-P-500ML      Number of Bottles: 3      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: 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

MCPP

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-00) 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-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-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)

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

|                            |                      |                                                                                                              |
|----------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L          | Number of Bottles: 3 | Preserved With: ICE                                                                                          |
| 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: 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 C (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-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 Type: P-250ML-WI-THI  | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| NE-ALS-ECQ                   | Template: DEFAULT    | (SM 9223 B Quanti-Tray) E. coli by Colilert/QT by ALS in Jacksonville                                                                          |
| Escherichia Coli-Quanti-Tray |                      |                                                                                                                                                |
| Bottle Type: P-500ML         | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| W-ICP                        | Template:            | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Barium                       |                      |                                                                                                                                                |
| Calcium                      |                      |                                                                                                                                                |
| Iron                         |                      |                                                                                                                                                |
| Magnesium                    |                      |                                                                                                                                                |
| Potassium                    |                      |                                                                                                                                                |
| Sodium                       |                      |                                                                                                                                                |
| 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                    |
| *Boron                       |                      |                                                                                                                                                |
| Aluminum                     |                      |                                                                                                                                                |
| Antimony                     |                      |                                                                                                                                                |

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

|                                                                                              |                   |                                              |                                                                                                                                |
|----------------------------------------------------------------------------------------------|-------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML<br>W-ICPMS                                                              | Template:         | Number of Bottles: 1<br>(EPA 200.8 Rev. 5.4) | Preserved With: HNO3<br>Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects |
| Arsenic<br>Cadmium<br>Chromium<br>Copper<br>Lead<br>Nickel<br>Selenium<br>Silver<br>Thallium |                   |                                              |                                                                                                                                |
| Bottle Type: P-500ML<br>W-NH3                                                                | Template: DEFAULT | Number of Bottles: 1<br>(EPA 350.1 Rev. 2.0) | Preserved With: ICE And H2SO4<br>Ammonia in aqueous matrices as mg N/L                                                         |
| Ammonia-N                                                                                    |                   |                                              |                                                                                                                                |
| Bottle Type: P-500ML<br>W-NO2NO3                                                             | Template: DEFAULT | Number of Bottles: 1<br>(EPA 353.2 Rev. 2.0) | Preserved With: ICE And H2SO4<br>Nitrite/Nitrate in aqueous matrices as mg N/L                                                 |
| NO2NO3-N                                                                                     |                   |                                              |                                                                                                                                |
| Bottle Type: P-500ML<br>W-S-A-TP                                                             | Template: DEFAULT | Number of Bottles: 1<br>(EPA 365.1 Rev. 2.0) | Preserved With: ICE And H2SO4<br>Total Phosphorus in aqueous matrices as mg P/L                                                |
| Total-P                                                                                      |                   |                                              |                                                                                                                                |
| Bottle Type: P-500ML<br>W-TKN                                                                | Template: DEFAULT | Number of Bottles: 1<br>(EPA 351.2 Rev. 2.0) | Preserved With: ICE And H2SO4<br>Total Kjeldahl Nitrogen in aqueous matrices                                                   |
| Kjeldahl Nitrogen                                                                            |                   |                                              |                                                                                                                                |
| Bottle Type: P-500ML<br>W-TOC                                                                | Template: DEFAULT | Number of Bottles: 1<br>(SM 5310 B-00)       | Preserved With: ICE And H2SO4<br>Nonpurgeable Organic Carbon in aqueous matrices                                               |
| Organic Carbon                                                                               |                   |                                              |                                                                                                                                |
| Bottle Type: P-125ML<br>W-PO4-F                                                              | Template: DEFAULT | Number of Bottles: 1<br>(EPA 365.1 Rev. 2.0) | Preserved With: FILTER-ICE<br>Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                              |
| O-Phosphate-P                                                                                |                   |                                              |                                                                                                                                |

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

|                                                                                                                                                                                                                                                                                                |                   |                                        |                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-250ML-WI-THI<br>NE-ALS-ENQ                                                                                                                                                                                                                                                      | Template: DEFAULT | Number of Bottles: 1<br>(ASTM D650399) | Preserved With: ICE<br>Enterococci by Enterolert/QT by ALS in Jacksonville                                                                         |
| ENTEROCOCCI-ENTEROLERT                                                                                                                                                                                                                                                                         |                   |                                        |                                                                                                                                                    |
| Bottle Type: QPCR-P-500ML<br>PCR-HF183                                                                                                                                                                                                                                                         | Template: DEFAULT | Number of Bottles: 1<br>(SOP-PCR-1.0)  | Preserved With: ICE<br>Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction |
| *HF183-qPCR                                                                                                                                                                                                                                                                                    |                   |                                        |                                                                                                                                                    |
| Bottle Type: BG-500ML<br>W-E8321-DI                                                                                                                                                                                                                                                            | Template: DEFAULT | Number of Bottles: 1<br>(EPA 8321B)    | Preserved With: ICE<br>Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                 |
| *Acesulfame K<br>*AMPA<br>*Endothall<br>*Glufosinate<br>*Glyphosate<br>*Sucralose                                                                                                                                                                                                              |                   |                                        |                                                                                                                                                    |
| Bottle Type: BG-500ML<br>W-E8321-MS                                                                                                                                                                                                                                                            | Template: DEFAULT | Number of Bottles: 1<br>(EPA 8321B)    | Preserved With: ICE<br>Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                 |
| *Acetaminophen<br>*Acetamiprid<br>*Afidopyropen<br>*Benzovindiflupyr<br>*Carbamazepine<br>*Clothianidin<br>*Dinotefuran<br>*Fluridone<br>*Hydrocodone<br>*Ibuprofen<br>*Imazapyr<br>*Mandestrobin<br>*Naproxen<br>*Primidone<br>*Pyraclostrobin<br>*Thiamethoxam<br>*Tolfenpyrad<br>*Triclopyr |                   |                                        |                                                                                                                                                    |

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

Bottle Type: BG-500ML      Number of Bottles: 1      Preserved With: ICE  
W-E8321-MS      Template: DEFAULT      (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS  
2,4-D  
Bentazon  
Diuron  
Fenuron  
Imidacloprid  
Linuron  
MCPP

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

Bottle Type: P-250ML-WI-THI      Number of Bottles: 1      Preserved With: ICE  
NE-ALS-ECQ      Template: DEFAULT      (SM 9223 B Quanti-Tray) E. coli by Colilert/QT by ALS in Jacksonville  
Escherichia Coli-Quanti-Tray

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