

Date of Request: 06-SEP-2017  
 Created By: ASHTON\_J On: 06-SEP-2017  
 Modified By: SWANSON\_C On: 07-SEP-2017  
 Customer: WQAP  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District:  
 Sampling Event: RUN 10

**Send Coolers To:**

Phone: 813-470-5772  
 13051 N. Telecom Parkway  
  
 Tampa, FL 33637  
 Attn: Judy Ashton

Program Module Number:  
 Priority: 3  
 Event Status: R  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 06-SEP-2017  
 Biology Request Reviewed By: SWANSON\_C On: 07-SEP-2017  
 Sampling Kit Required: YES Ship on: 18-SEP-2017  
 Sampling Kit Shipped: YES On: 18-SEP-2017  
 Sampling Kit Packed By: SHAIK\_A  
 Preservatives Needed: NO  
 Date to Receive Samples: 02-OCT-2017  
 Received By: SHAIK\_A On: 06-OCT-2017

**Send Final Report To:**

13051 N. Telecom Parkway  
  
 Tampa, FL 33637  
 Attn: Judy Ashton

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

Comments: Group A: Marine Kit, No Metals

**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-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                                                                                 |
| 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: QPCR-P-250ML    | Number of Bottles: 2 | Preserved With: ICE                                                                                                                       |
| PCR-FILTER                   | Template: DEFAULT    | (SOP-PCR-4.0) Preparation of Samples by Filtration and held for qPCR Analysis                                                             |
| *HF183 - Human Source Marker |                      |                                                                                                                                           |
| PCR-GFD                      | Template: DEFAULT    | (SOP-PCR-1.3) Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction   |
| *GFD-purified-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:                 | Number of Bottles: 1 | Preserved With: ICE                                                                                                                       |
| SWD-AEL-EN                   | Template: DEFAULT    | (SM 9230 C) Enterococci by membrane filter method by Advanced Environmental Overflow Laboratories for SWD                                 |
| Enterococci-Membrane Filter  |                      |                                                                                                                                           |
| Bottle Type: BG-1L           | Number of Bottles: 1 | Preserved With: ICE                                                                                                                       |

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

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| Bottle Type: BG-1L   | Number of Bottles: 1 | Preserved With: ICE                                                                      |
| W-AHERB-AA           | Template: DEFAULT    | (USGS O-2060-01) Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS   |
| *Triclopyr           |                      |                                                                                          |
| 2,4-D                |                      |                                                                                          |
| Bentazon             |                      |                                                                                          |
| MCP                  |                      |                                                                                          |
| W-SUC-AA-R           | Template: DEFAULT    | (EPA 8321B) Analysis of sucralose in water matrices by HPLC/MS/MS                        |
| *Sucralose           |                      |                                                                                          |
| W-UHERB-AA           | Template: DEFAULT    | (USGS O-2060-01) Urea herbicides and other chemicals in water matrices by HPLC/MS/MS     |
| *Acetaminophen       |                      |                                                                                          |
| *Carbamazepine       |                      |                                                                                          |
| *Fluridone           |                      |                                                                                          |
| *Primidone           |                      |                                                                                          |
| Diuron               |                      |                                                                                          |
| Fenuron              |                      |                                                                                          |
| Imidacloprid         |                      |                                                                                          |
| Linuron              |                      |                                                                                          |
| 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 1 Samples:**

|                              |                      |                                                                                                                                                                           |
|------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: QPCR-P-250ML    | Number of Bottles: 2 | Preserved With: ICE                                                                                                                                                       |
| PCR-FILTER                   | Template: DEFAULT    | (SOP-PCR-4.0) Preparation of Samples by Filtration and held for qPCR Analysis                                                                                             |
| *HF183 - Human Source Marker |                      |                                                                                                                                                                           |
| PCR-GULL2                    | Template: DEFAULT    | (SOP-PCR-1.2) Detection and quantification of coastal bird specific <i>Catellibacillus marimammalium</i> Gull2 genetic marker with quantitative polymerase chain reaction |
| *GULL2-qPCR                  |                      |                                                                                                                                                                           |
| Bottle Type:                 | Number of Bottles: 1 | Preserved With: ICE                                                                                                                                                       |
| SWD-AEL-EN                   | Template: DEFAULT    | (SM 9230 C) Enterococci by membrane filter method by Advanced Environmental Overflow Laboratories for SWD                                                                 |
| Enterococci-Membrane Filter  |                      |                                                                                                                                                                           |
| Bottle Type: BG-1L           | Number of Bottles: 1 | Preserved With: ICE                                                                                                                                                       |
| W-AHERB-AA                   | Template: DEFAULT    | (USGS O-2060-01) Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS                                                                                    |
| *Triclopyr                   |                      |                                                                                                                                                                           |
| 2,4-D                        |                      |                                                                                                                                                                           |
| Bentazon                     |                      |                                                                                                                                                                           |
| MCP                          |                      |                                                                                                                                                                           |
| W-SUC-AA-R                   | Template: DEFAULT    | (EPA 8321B) Analysis of sucralose in water matrices by HPLC/MS/MS                                                                                                         |
| *Sucralose                   |                      |                                                                                                                                                                           |
| W-UHERB-AA                   | Template: DEFAULT    | (USGS O-2060-01) Urea herbicides and other chemicals in water matrices by HPLC/MS/MS                                                                                      |
| *Acetaminophen               |                      |                                                                                                                                                                           |
| *Carbamazepine               |                      |                                                                                                                                                                           |
| *Fluridone                   |                      |                                                                                                                                                                           |
| *Primidone                   |                      |                                                                                                                                                                           |
| Diuron                       |                      |                                                                                                                                                                           |
| Fenuron                      |                      |                                                                                                                                                                           |
| Imidacloprid                 |                      |                                                                                                                                                                           |
| Linuron                      |                      |                                                                                                                                                                           |
| 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                                                                                                                |

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

|                            |                      |                                                                                                              |
|----------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML       | Number of Bottles: 1 | Preserved With: ICE And H2SO4                                                                                |
| W-NH3                      | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                                   |
| Ammonia-N                  |                      |                                                                                                              |
| W-NO2NO3                   | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                                           |
| NO2NO3-N                   |                      |                                                                                                              |
| W-S-A-TP                   | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                                          |
| Total-P                    |                      |                                                                                                              |
| W-TKN                      | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                                             |
| Kjeldahl Nitrogen          |                      |                                                                                                              |
| W-TOC                      | Template: DEFAULT    | (SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices                                               |
| Organic Carbon             |                      |                                                                                                              |
| Bottle Type: P-125ML       | Number of Bottles: 1 | Preserved With: FILTER-ICE                                                                                   |
| W-PO4-F                    | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                     |
| O-Phosphate-P              |                      |                                                                                                              |
| 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-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                                                    |
| TSS                        |                      |                                                                                                              |
| Bottle Type: BP-1L         | Number of Bottles: 1 | Preserved With: ICE                                                                                          |
| CHLSUITE-W                 | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |
| Chlorophyll-a, Corrected   |                      |                                                                                                              |
| Chlorophyll-a, Uncorrected |                      |                                                                                                              |
| Phaeophytin-a              |                      |                                                                                                              |

**Bottle Group 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-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                                                                                 |
| 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: QPCR-P-250ML    | Number of Bottles: 2 | Preserved With: ICE                                                                                                                       |
| PCR-FILTER                   | Template: DEFAULT    | (SOP-PCR-4.0) Preparation of Samples by Filtration and held for qPCR Analysis                                                             |
| *HF183 - Human Source Marker |                      |                                                                                                                                           |
| 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:                 | Number of Bottles: 1 | Preserved With: ICE                                                                                                                       |
| SWD-AEL-EN                   | Template: DEFAULT    | (SM 9230 C) Enterococci by membrane filter method by Advanced Environmental Overflow Laboratories for SWD                                 |
| Enterococci-Membrane Filter  |                      |                                                                                                                                           |
| Bottle Type: BG-1L           | Number of Bottles: 1 | Preserved With: ICE                                                                                                                       |
| W-AHERB-AA                   | Template: DEFAULT    | (USGS O-2060-01) Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS                                                    |
| *Triclopyr                   |                      |                                                                                                                                           |
| 2,4-D                        |                      |                                                                                                                                           |

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

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| Bottle Type: BG-1L   | Number of Bottles: 1 | Preserved With: ICE                                                                      |
| W-AHERB-AA           | Template: DEFAULT    | (USGS O-2060-01) Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS   |
| Bentazon             |                      |                                                                                          |
| MCP                  |                      |                                                                                          |
| W-SUC-AA-R           | Template: DEFAULT    | (EPA 8321B) Analysis of sucralose in water matrices by HPLC/MS/MS                        |
| *Sucralose           |                      |                                                                                          |
| W-UHERB-AA           | Template: DEFAULT    | (USGS O-2060-01) Urea herbicides and other chemicals in water matrices by HPLC/MS/MS     |
| *Acetaminophen       |                      |                                                                                          |
| *Carbamazepine       |                      |                                                                                          |
| *Fluridone           |                      |                                                                                          |
| *Primidone           |                      |                                                                                          |
| Diuron               |                      |                                                                                          |
| Fenuron              |                      |                                                                                          |
| Imidacloprid         |                      |                                                                                          |
| Linuron              |                      |                                                                                          |
| 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 D (Water) With 1 Samples:**

|                              |                      |                                                                                                                                                                  |
|------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: QPCR-P-250ML    | Number of Bottles: 2 | Preserved With: ICE                                                                                                                                              |
| PCR-FILTER                   | Template: DEFAULT    | (SOP-PCR-4.0) Preparation of Samples by Filtration and held for qPCR Analysis                                                                                    |
| *HF183 - Human Source Marker |                      |                                                                                                                                                                  |
| PCR-GFD                      | Template: DEFAULT    | (SOP-PCR-1.3) Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction                          |
| *GFD-purified-qPCR           |                      |                                                                                                                                                                  |
| PCR-GULL2                    | Template: DEFAULT    | (SOP-PCR-1.2) Detection and quantification of coastal bird specific Catellicoccus marimammalium Gull2 genetic marker with quantitative polymerase chain reaction |
| *GULL2-qPCR                  |                      |                                                                                                                                                                  |
| Bottle Type:                 | Number of Bottles: 1 | Preserved With: ICE                                                                                                                                              |
| SWD-AEL-EN                   | Template: DEFAULT    | (SM 9230 C) Enterococci by membrane filter method by Advanced Environmental Overflow Laboratories for SWD                                                        |
| Enterococci-Membrane Filter  |                      |                                                                                                                                                                  |
| Bottle Type: BG-1L           | Number of Bottles: 1 | Preserved With: ICE                                                                                                                                              |
| W-AHERB-AA                   | Template: DEFAULT    | (USGS O-2060-01) Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS                                                                           |
| *Triclopyr                   |                      |                                                                                                                                                                  |
| 2,4-D                        |                      |                                                                                                                                                                  |
| Bentazon                     |                      |                                                                                                                                                                  |
| MCP                          |                      |                                                                                                                                                                  |
| W-SUC-AA-R                   | Template: DEFAULT    | (EPA 8321B) Analysis of sucralose in water matrices by HPLC/MS/MS                                                                                                |
| *Sucralose                   |                      |                                                                                                                                                                  |
| W-UHERB-AA                   | Template: DEFAULT    | (USGS O-2060-01) Urea herbicides and other chemicals in water matrices by HPLC/MS/MS                                                                             |
| *Acetaminophen               |                      |                                                                                                                                                                  |
| *Carbamazepine               |                      |                                                                                                                                                                  |
| *Fluridone                   |                      |                                                                                                                                                                  |
| *Primidone                   |                      |                                                                                                                                                                  |
| Diuron                       |                      |                                                                                                                                                                  |
| Fenuron                      |                      |                                                                                                                                                                  |
| Imidacloprid                 |                      |                                                                                                                                                                  |
| Linuron                      |                      |                                                                                                                                                                  |

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

|                                   |                                                                                                                       |                                                                                        |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Bottle Type: QPCR-P-250ML         | Number of Bottles: 2                                                                                                  | Preserved With: ICE                                                                    |
| PCR-FILTER                        | Template: DEFAULT                                                                                                     | (SOP-PCR-4.0) Preparation of Samples by Filtration and held for qPCR Analysis          |
| *HF183 - Human Source Marker      |                                                                                                                       |                                                                                        |
| Bottle Type: SWD-AEL-EC           | Number of Bottles: 1                                                                                                  | Preserved With: ICE                                                                    |
| Template: DEFAULT                 | (EPA 1603) Escherichia coli by membrane filter method using modified mTEC by Advanced Environmental Tampa Lab for SWD |                                                                                        |
| *Escherichia coli-Membrane Filter |                                                                                                                       |                                                                                        |
| Bottle Type: BG-1L                | Number of Bottles: 1                                                                                                  | Preserved With: ICE                                                                    |
| W-AHERB-AA                        | Template: DEFAULT                                                                                                     | (USGS O-2060-01) Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS |
| *Triclopyr                        |                                                                                                                       |                                                                                        |
| 2,4-D                             |                                                                                                                       |                                                                                        |
| Bentazon                          |                                                                                                                       |                                                                                        |
| MCPP                              |                                                                                                                       |                                                                                        |
| W-SUC-AA-R                        | Template: DEFAULT                                                                                                     | (EPA 8321B) Analysis of sucralose in water matrices by HPLC/MS/MS                      |
| *Sucralose                        |                                                                                                                       |                                                                                        |
| W-UHERB-AA                        | Template: DEFAULT                                                                                                     | (USGS O-2060-01) Urea herbicides and other chemicals in water matrices by HPLC/MS/MS   |
| *Acetaminophen                    |                                                                                                                       |                                                                                        |
| *Carbamazepine                    |                                                                                                                       |                                                                                        |
| *Fluridone                        |                                                                                                                       |                                                                                        |
| *Primidone                        |                                                                                                                       |                                                                                        |
| Diuron                            |                                                                                                                       |                                                                                        |
| Fenuron                           |                                                                                                                       |                                                                                        |
| Imidacloprid                      |                                                                                                                       |                                                                                        |
| Linuron                           |                                                                                                                       |                                                                                        |

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