

**PORT EVERGLADES NAVIGATION IMPROVEMENT PROJECT  
IWG MEETING:  
AUGUST 29, 2018: 1:00 – 5:00 PM**



# WEBINAR INFORMATION

- **WEBINAR:** [JOIN SKYPE MEETING](#) AS SHOWN ON THE AGENDA.
  - TROUBLE JOINING: [EMAIL ERIK OR MATT](#)
  - JOIN BY PHONE: [\(954\) 453-1630](#), CONFERENCE ID: 3177827
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- SKYPE AND TELECONFERENCE FOR BEST RESULTS
  - MESSAGE IF YOU HAVE A QUESTION AND CAN'T GET OUR ATTENTION.

# MEETING GOALS

- UPDATE TO THE IWG ON THE CURRENT PROJECT SCHEDULE.
- UNDERSTANDING OF THE SEAGRASS SURVEY PROTOCOL BASED ON IWG QUESTIONS AND A PATH FORWARD TO ADOPT THE 2016 SEAGRASS SURVEY.
- OVERVIEW OF THE BENTHIC HABITAT MAP REVISIONS AND PATH FORWARD TO ADOPTION OF THE MAP FOR USE BY THE IWG.
- UNDERSTANDING OF THE RECENTLY RELEASED MINIMIZATION EFFORTS TO REDUCE PROJECT IMPACTS AND RESULTS OF THE CORPS' INDUSTRY DAY SCHEDULED FOR AUGUST 21<sup>ST</sup>.
- SCHEDULING WEBINARS TO ADDRESS RECENTLY RELEASED PARTICLE TRACKING MODEL RESULTS AND MANGROVE IMPACTS/ENVIRONMENTALLY FRIENDLY BULKHEAD.

# AGENDA

- 1:00-1:15            INTRODUCTIONS, REVIEW OF AGENDA AND MEETING  
GOALS: CORPS/PORT/MARIE**
- 1:15-1: 25            OVERVIEW OF CURRENT SCHEDULE: LACY PFAFF (USACE)**
- 1:25 -1:45            BRIEF SUMMARY OF ARTIFICIAL/MITIGATION REEF WORKSHOP  
ERIK NEUGAARD (PORT)**
- 1:45-2:45            SEAGRASS SURVEY – QUESTIONS FROM IWG ADDRESSED: JASON  
SPINNING (USACE), KRISTIAN ROGERS (DCA), BILL PRECHT  
(DCA) AND MIKE (DCA)**
- 2:45 – 3:15            BENTHIC HABITAT MAP – REVIEW OF LATEST CHANGES:  
PRESENTERS TBD**
- 3:15 – 3:30            BREAK**

## AGENDA (CONT'D)

3:30 – 4:15      MINIMIZATION EFFORTS – PRESENTATION BY LACY PFAFF AND  
JASON SPINNING (USACE)

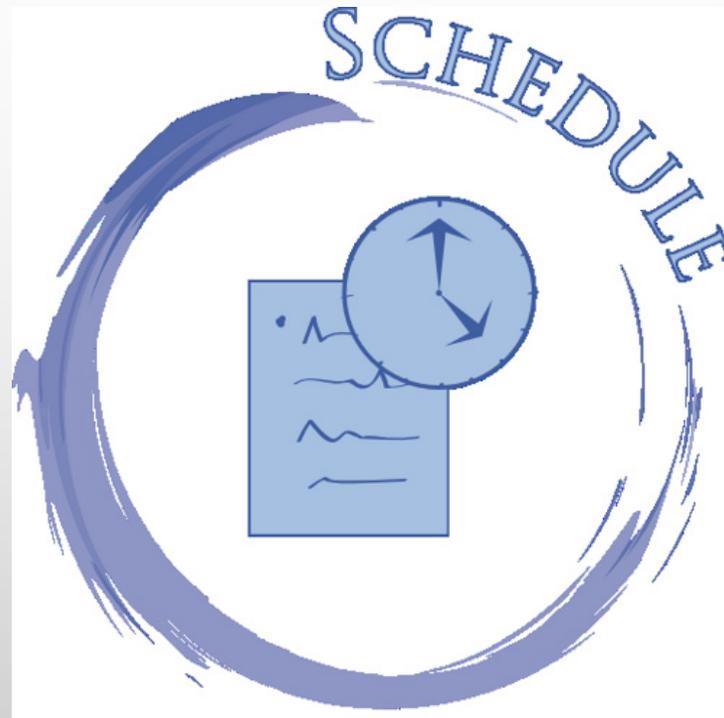
4:15 – 4:30      SCHEDULING OF MONTHLY IWG MEETINGS (SUGGESTED LAST  
TUESDAY OF THE MONTH – 10-12) AND WEBINARS ON THE  
PTM AND ENVIRONMENTALLY FRIENDLY BULKHEAD (WHICH      WEEKS  
TO DOODLE POLL?)

4:30 – 4:45      PLUSES AND MINUSES OF THE DAY

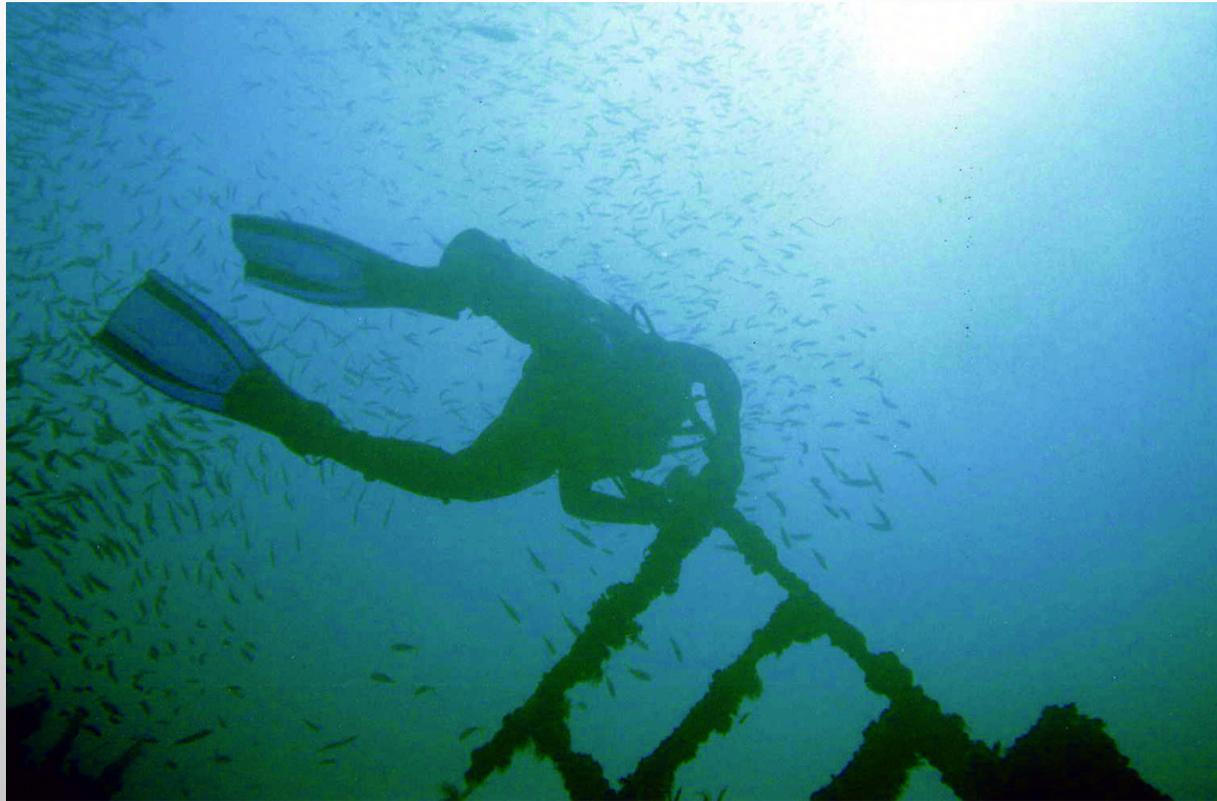
4:45 – 5:00      TASKERS AND CLOSE

# OVERVIEW OF CURRENT SCHEDULE

## LACY PFAFF (USACE)



**BRIEF SUMMARY OF ARTIFICIAL/MITIGATION REEF  
WORKSHOP  
ERIK NEUGAARD (PORT)**



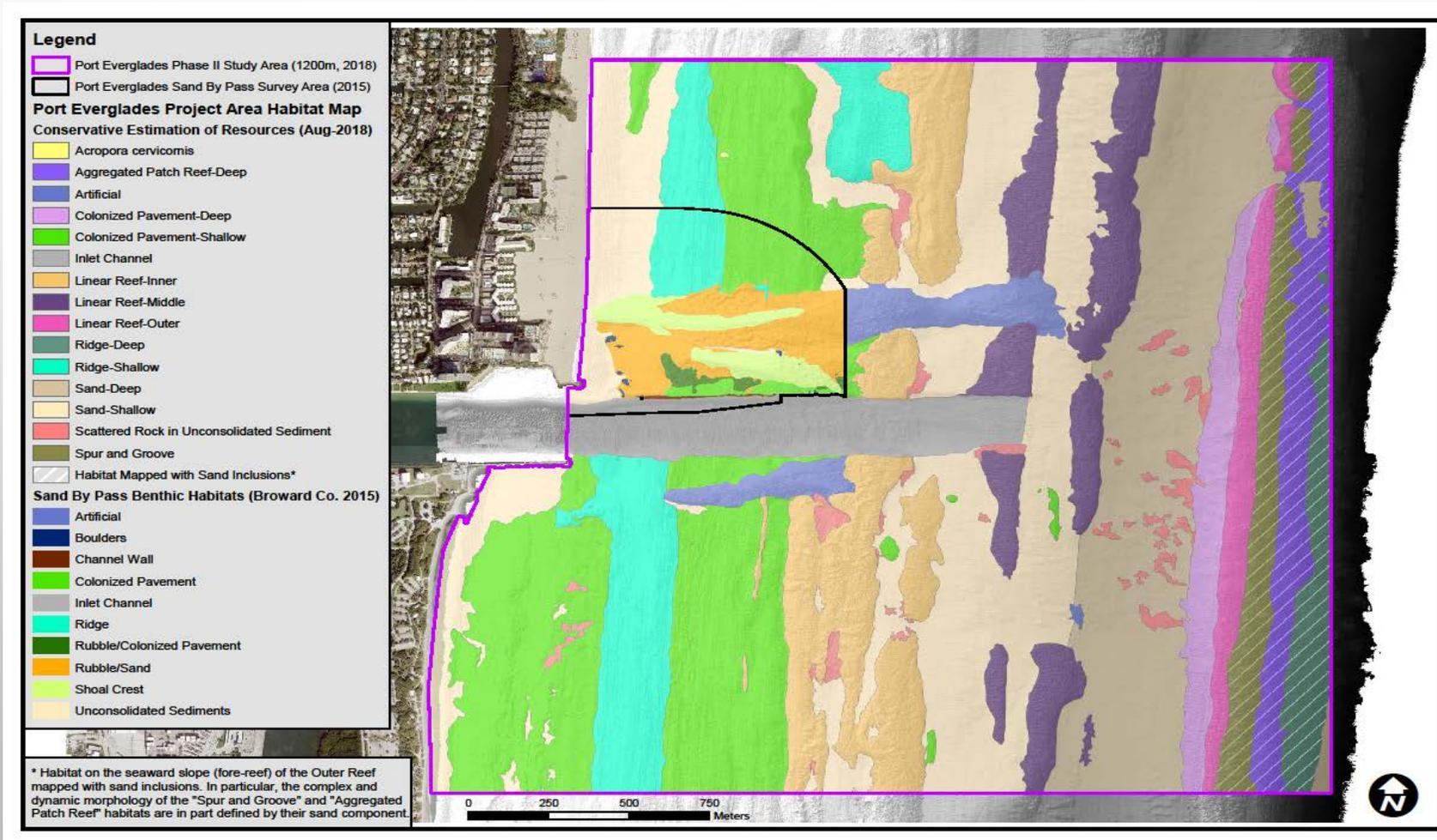
**SEAGRASS SURVEY – QUESTIONS FROM IWG ADDRESSED:  
JASON SPINNING, KRISTIAN ROGERS (DCA) AND BILL  
PRECHT (DCA)**



# PROJECT BENTHIC HABITAT MAP (CONSERVATIVE APPROACH)

- E-MAIL DATED JULY 31<sup>ST</sup> TO IWG WITH ORIGINAL MAP
- AREAS NOT CLEARLY SAND OR HARDBOTTOM DEFAULTED TO HARDBOTTOMS
- REQUEST TO INCLUDE SAND BY-PASS INFORMATION
- REQUEST TO ENSURE THAT THE TABLES REFLECTED THE CONSERVATIVE APPROACH AGREED TO BY THE CORPS.

# BENTHIC HABITAT MAP – REVIEW OF LATEST CHANGES:



# BENTHIC HABITAT MAP – REVIEW OF LATEST CHANGES (CONT'D) DIRECT IMPACTS WITH SAND BY-PASS INFO.

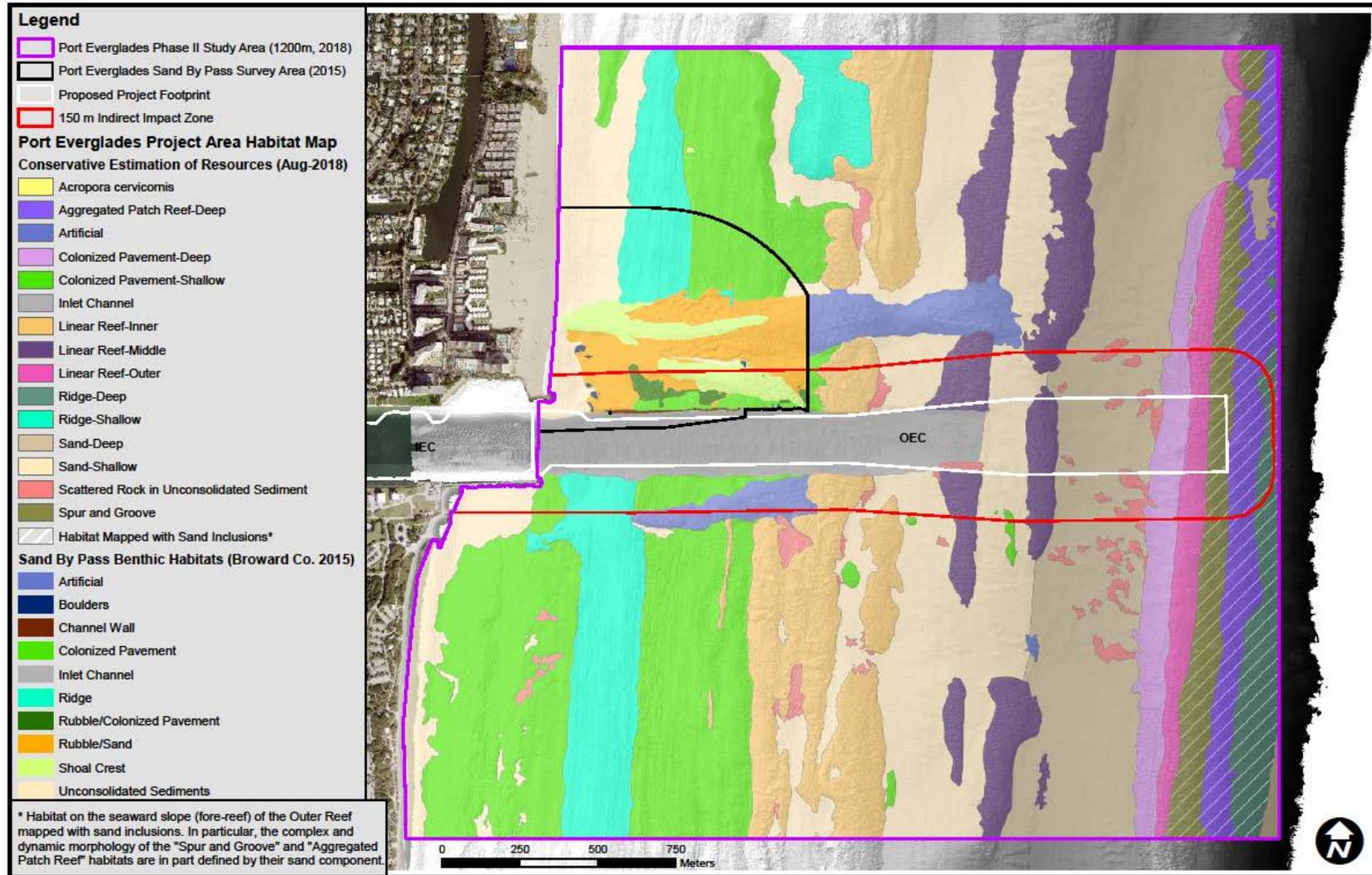
| IMPACT | SURVEY   | HABITAT   | TYPE                      | COUNT | AREA (ft)         | AREA (m)         | ACRES         | HECTARES     |
|--------|----------|---|---------------------------|-------|-------------------|------------------|---------------|--------------|
| DIRECT | REV-2018 | Aggregated Patch Reef-Deep                        | Coral Reef and Hardbottom | 1     | 601.833           | 55.912           | 0.014         | 0.006        |
| DIRECT | REV-2018 | Colonized Pavement-Deep                           | Coral Reef and Hardbottom | 1     | 254203.851        | 23616.399        | 5.836         | 2.362        |
| DIRECT | REV-2018 | Linear Reef-Middle                                | Coral Reef and Hardbottom | 3     | 292468.418        | 27171.307        | 6.715         | 2.718        |
| DIRECT | REV-2018 | Linear Reef-Outer                                 | Coral Reef and Hardbottom | 1     | 180258.915        | 16746.664        | 4.138         | 1.675        |
| DIRECT | REV-2018 | Scattered Rock in Unconsolidated Sediment-Shallow | Coral Reef and Hardbottom | 5     | 116761.823        | 10847.569        | 2.680         | 1.084        |
| DIRECT | REV-2018 | Spur and Groove                                   | Coral Reef and Hardbottom | 1     | 154970.882        | 14397.320        | 3.558         | 1.440        |
|        |          |   |                           |       | <b>999265.722</b> | <b>92835.172</b> | <b>22.941</b> | <b>9.285</b> |

# BENTHIC HABITAT MAP – REVIEW OF LATEST CHANGES (CONT'D)

## INDIRECT IMPACTS (150 M AREA)

| IMPACT SURVEY HABITAT   | TYPE                      | COUNT | AREA (ft)          | AREA (m)          | ACRES          | HECTARES      |
|---|---------------------------|-------|--------------------|-------------------|----------------|---------------|
| INDIRECT REV-2018 Aggregated Patch Reef-Deep                        | Coral Reef and Hardbottom | 1     | 515373.988         | 47879.990         | 11.831         | 4.788         |
| INDIRECT REV-2018 Artificial  | Coral Reef and Hardbottom | 1     | 337444.055         | 31349.696         | 7.747          | 3.135         |
| INDIRECT REV-2018 Colonized Pavement-Deep                           | Coral Reef and Hardbottom | 2     | 298685.374         | 27748.883         | 6.857          | 2.775         |
| INDIRECT REV-2018 Colonized Pavement-Shallow                        | Coral Reef and Hardbottom | 5     | 533616.128         | 49574.747         | 12.249         | 4.957         |
| INDIRECT REV-2018 Linear Reef-Inner                                 | Coral Reef and Hardbottom | 3     | 507217.134         | 47122.191         | 11.644         | 4.712         |
| INDIRECT REV-2018 Linear Reef-Middle                                | Coral Reef and Hardbottom | 5     | 672938.164         | 62518.236         | 15.449         | 6.252         |
| INDIRECT REV-2018 Linear Reef-Outer                                 | Coral Reef and Hardbottom | 2     | 245716.378         | 22827.884         | 5.641          | 2.282         |
| INDIRECT REV-2018 Ridge-Deep  | Coral Reef and Hardbottom | 1     | 178858.391         | 16616.551         | 4.106          | 1.662         |
| INDIRECT REV-2018 Ridge-Shallow                                     | Coral Reef and Hardbottom | 1     | 293043.004         | 27224.688         | 6.727          | 2.722         |
| INDIRECT REV-2018 Scattered Rock in Unconsolidated Sediment-Shallow | Coral Reef and Hardbottom | 13    | 232587.576         | 21608.174         | 5.339          | 2.162         |
| INDIRECT REV-2018 Spur and Groove                                   | Coral Reef and Hardbottom | 2     | 265187.706         | 24636.837         | 6.088          | 2.464         |
| INDIRECT SBP-2015 Boulders  | Coral Reef and Hardbottom | 9     | 12199.179          | 1133.345          | 0.281          | 0.114         |
| INDIRECT SBP-2015 Channel Wall                                      | Coral Reef and Hardbottom | 1     | 37123.353          | 3448.885          | 0.852          | 0.345         |
| INDIRECT SBP-2015 Colonized Pavement                                | Coral Reef and Hardbottom | 2     | 186689.070         | 17344.047         | 4.286          | 1.734         |
| INDIRECT SBP-2015 Rubble/Colonized Pavement                         | Coral Reef and Hardbottom | 3     | 142660.576         | 13253.651         | 3.275          | 1.326         |
| INDIRECT SBP-2015 Rubble/Sand                                       | Coral Reef and Hardbottom | 6     | 313814.698         | 29154.449         | 7.205          | 2.915         |
| INDIRECT SBP-2015 Shoal Crest                                       | Coral Reef and Hardbottom | 1     | 275376.776         | 25583.436         | 6.322          | 2.558         |
|   |                           |       | <b>5048531.550</b> | <b>469025.690</b> | <b>115.899</b> | <b>46.903</b> |

# Project Area Map with Sand By-Pass Information Added



Take a break.  
**You deserve it!**



# MINIMIZATION EFFORTS – PRESENTATION BY LACY PFAFF AND JASON SPINNING (USACE)

## PORT EVERGLADES NAVIGATION IMPROVEMENT PROJECT BROWARD COUNTY, FLORIDA

INDUSTRY DAY  
AUGUST 21, 2018



**Scheduling of monthly IWG meetings (suggested last Tuesday of the Month – 10-12) and webinars on the PTM and Environmentally Friendly Bulkhead (Which weeks to Doodle Poll?)**

# PLUSES AND MINUSES OF THE DAY



What went well.....

And Not So Well.....

# TASKERS AND CLOSE