

# Grand Port Dredging Operations

## Turbidity Monitoring Report

Report for \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ 202\_\_  
(Time) (Date)

Report shall be filled out in its entirety and submitted within 24 hours of the monitoring event.

### **Equipment Calibration**

GPS Baseline Coordinates (at dock prior to monitoring):

Latitude or Northing: \_\_\_\_\_

Longitude or Easting: \_\_\_\_\_

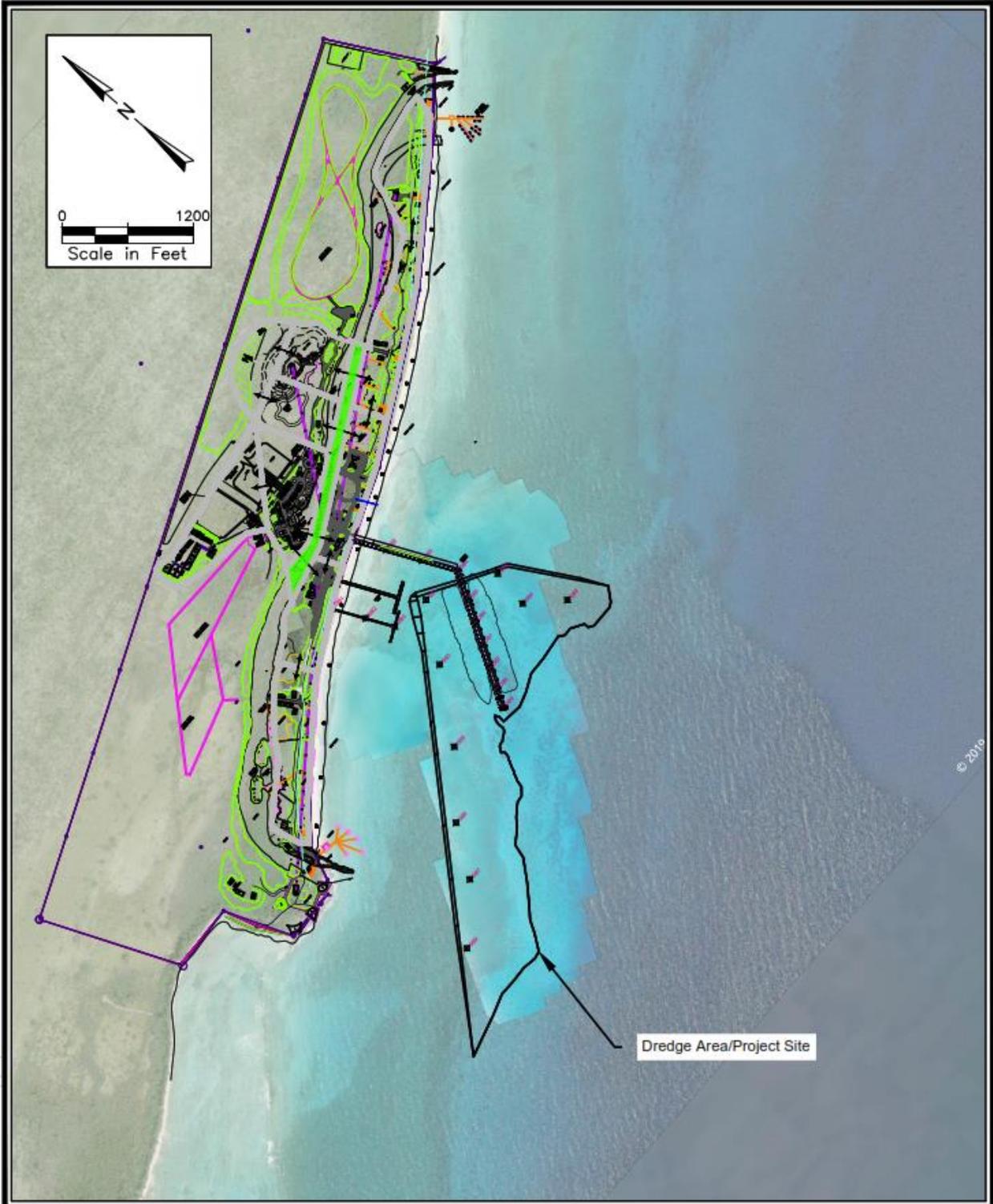
GPS Baseline Coordinates (at dock following monitoring):

Latitude or Northing: \_\_\_\_\_

Longitude or Easting: \_\_\_\_\_

### **Turbidity Meter Calibration**

Date of Turbidity Meter Calibration: \_\_\_\_\_



Location of Dredge, Discharge and Sampling Location.  
 Report for time.....Date.....

**Excavation Site:**

**Frequency:** Two sampling events will be conducted per day, nominally one in the morning and one in the afternoon, at least 4 hours apart. Samples will be taken during active construction when the dredge has been operational for a minimum of 2 hours. Samples will not be taken if the dredge is not operating for a period greater than 4 hours, and this condition will be noted in the daily sampling report.

**Background Sample:** Samples shall be collected at least 1,200 feet (365 meters) up-current from the source of turbidity at the dredge site.

Sampling shall occur at mid-depth, clearly outside the influence of any artificially generated turbidity plume or the influence of an outgoing inlet plume.

**Compliance Sample:** Samples shall be collected 1,640 feet (500) meters down-current from the cutterhead, in the densest portion of any visible turbidity plume. If no plume is visible, follow the likely direction of flow.

Sampling shall occur at mid-depth.

**Notes (List any notable observations, deviations or deficiencies in the monitoring event):**

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### Excavation Site Turbidity Data

Parameter	Background Sample	Compliance Sample
Sample Collection Time		
<b>Location</b>		
Latitude or Northing		
Longitude or Easting		
<b>Weather</b>		
Conditions (e.g., clear, rainy, overcast, etc.)		
Air Temperature (°F)		
Wind Speed (MPH)		
Wind Direction		
<b>Sea Conditions</b>		
Tidal Stage (e.g., High, Low, Incoming, Slack, etc.)		
Current Speed and Direction		
Turbidity (NTU) Mid-Depth		
Depth of Mid-Depth Sample (ft)		
Difference (Mid-depth Samples) (= compliance - Background)		

**If the difference between the compliance sample and the background sample is greater than 15 NTUs for any sample collected (i.e., the compliance sample is more than 15 NTUs above the background sample), the Project Engineer should be notified immediately.**

**Beach Discharge Site:**

**Frequency:** Two sampling events will be conducted per day, nominally one in the morning and one in the afternoon, at least 4 hours apart. Samples will be taken during active construction when the dredge has been operational for a minimum of 2 hours. Samples will not be taken if the dredge is not operating for a period greater than 4 hours, and this condition will be noted in the daily sampling report.

**Background Sample:** Samples shall be collected at least 1,200 feet (365 meters) up-current from the source of turbidity at the dredge site.

Sampling shall occur at mid-depth, clearly outside the influence of any artificially generated turbidity plume or the influence of an outgoing inlet plume.

**Compliance Sample:** Samples shall be collected 1,640 feet (500) meters down-current from the return water discharge into the ocean, in the densest portion of any visible turbidity plume. If no plume is visible, follow the likely direction of flow.

Sampling shall occur at mid-depth.

**Notes (List any notable observations, deviations or deficiencies in the monitoring event):**

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### Beach Discharge Site Turbidity Data

Parameter	Background Sample	Compliance Sample
Sample Collection Time		
<b>Location</b>		
Latitude or Northing		
Longitude or Easting		
<b>Weather</b>		
Conditions (e.g., clear, rainy, overcast, etc.)		
Air Temperature (°F)		
Wind Speed (MPH)		
Wind Direction		
<b>Sea Conditions</b>		
Tidal Stage (e.g., High, Low, Incoming, Slack, etc.)		
Current Speed and Direction		
Turbidity (NTU) Mid-Depth		
Depth of Mid-Depth Sample (ft)		
Difference (Mid-depth Samples) (= compliance - Background)		

**If the difference between the compliance sample and the background sample is greater than 15 NTUs for any sample collected (i.e., the compliance sample is more than 15 NTUs above the background sample), the Project Engineer should be notified immediately.**

**Inlet or Pier Construction Site:**

**Frequency:** Two sampling events will be conducted per day, nominally one in the morning and one in the afternoon, at least 4 hours apart. Samples will be taken during active construction when the dredge has been operational for a minimum of 2 hours. Samples will not be taken if the dredge is not operating for a period greater than 4 hours, and this condition will be noted in the daily sampling report.

**Background Sample:** Samples shall be collected at least 1,200 feet (365 meters) up-current from the source of turbidity at the dredge site.

Sampling shall occur at mid-depth, clearly outside the influence of any artificially generated turbidity plume or the influence of an outgoing inlet plume.

**Compliance Sample:** Samples shall be collected 1,640 feet (500) meters down-current from the work area (turbidity curtain barrier), in the densest portion of any visible turbidity plume. If no plume is visible, follow the likely direction of flow.

Sampling shall occur at mid-depth.

**Notes (List any notable observations, deviations or deficiencies in the monitoring event):**

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### Inlet or Pier Construction Site Turbidity Data

Parameter	Background Sample	Compliance Sample
Sample Collection Time		
<b>Location</b>		
Latitude or Northing		
Longitude or Easting		
<b>Weather</b>		
Conditions (e.g., clear, rainy, overcast, etc.)		
Air Temperature (°F)		
Wind Speed (MPH)		
Wind Direction		
<b>Sea Conditions</b>		
Tidal Stage (e.g., High, Low, Incoming, Slack, etc.)		
Current Speed and Direction		
Turbidity (NTU) Mid-Depth		
Depth of Mid-Depth Sample (ft)		
Difference (Mid-depth Samples) (= compliance - Background)		

**If the difference between the compliance sample and the background sample is greater than 15 NTUs for any sample collected (i.e., the compliance sample is more than 15 NTUs above the background sample), the Project Engineer should be notified immediately.**

Attachments :

**1. Planview map showing Sample Locations;**

Samples will be measured at specified locations and depths as delineated within these forms. A standard NTU probe type meter calibrated to the manufacturer's specifications will be utilized. Position will be noted utilizing a hand-held GPS and recorded. Any deviation from this protocol should be described within the notes section for each monitoring event. Any significant change in protocol should be communicated to the Project Engineer.

Samples have been collected and measured using a turbidity meter as per manufacturer's specification. The reported meter resolution is 0.01 NTU for readings below 100.0 NTU. Accuracy is stated as +/- 2% of reading or 0.01 NTU for readings from 0 to 500 NTU. The measurement range is prorated as 0.01 to 1100 NTU.

**Signature:**

I certify that these data and this report are authentic; that the analytical instrumentation has been factory-calibrated within the last year, and calibrated with the appropriate standards prior to each sample; and that the methods of sample collection, handling, storage, and analysis are in compliance with the Contract Documents and all required permits for this project.

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Authorized Technician

Date

\*If e-mailed, type the name in substitution of a signature.