



August 25, 2011

Weekly Meeting Memo CSE-15

MEMO

TO: Cliff Ogburn, Town of Nags Head, NC

FROM: Haiqing L. Kaczkowski (PE) and Tim W. Kana (PG)

RE: Nags Head Beach Nourishment Project (CSE 2203)

Weekly Project Meeting of the Town, the Contractor, and the Engineer

The weekly project meeting of the Town of Nags Head, the Contractor (Great Lakes Dredge & Dock, referred to as GLDD) and the Engineer (Coastal Science & Engineering, referred to as CSE) was held from 9:00 a.m. to 9:40 a.m. on Thursday, 25 August 2011, at the Town Hall. Items discussed during the meeting are summarized herein.

1) GLDD Production Updates and Evacuation Plan

The dredge Texas finished her work and demobilized from the job site over the past week.

GLDD's two new dredges, the Dodge Island and the Padre Island, arrived on site as planned. Representatives of the USACE Wilmington office inspected the dredges for sea turtle conditions and all was found acceptable. The Dodge Island pumped her first load around 8:30 pm last Friday, August 19, 2011, while the Padre Island pumped her first load around 7 pm on Monday, August 22. The second trawler "Winds of Fortune" arrived on site and began working prior to the two dredges' arrival. The two dredges proceeded northward sharing the same submerged pipeline near station 535+00.



On Sunday, August 21, the Liberty Island finished pumping sand in the gap between stations 878+00 and 898+00 (just south of Outer Banks Pier) using a submerged pipeline near station 898+00. She then moved to station 633+00 using the submerged pipeline near station 645+00 and proceeded northward. She pumped in that direction for about 500 ft to station 627+00, and then moved to the south end of the project area using a submerged pipeline near station 1007+00 to finish the 1,800 ft of sections left by the Dredge Texas. She pumped in that direction for 900 ft to station 1016+00 as of midnight last night.

Due to the upcoming Hurricane Irene, GLDD's three dredges, the Liberty Island, the Dodge Island and the Padre Island, started leaving the project site from Midnight August 25 to sail for Norfolk (VA) to ride out the hurricane. After the dredges left the job site, the fill crew has been breaking the pipeline and moving the shore pipes and equipment to the storm staging areas at Gray Eagle Street and Surfside Street. Final after dredging (AD) surveys will be taken of the beach to be used for pre-storm volume calculations. By the time the hurricane passes the project site, all construction equipment and pipes should be properly secured and all GLDD site personnel should be evacuated to Greenville, NC.

As of August 24, 2011 (before the dredges evacuated to Norfolk), GLDD placed approximately 3.8 million cubic yards (cy) of sand onto the project area, which is about 83 percent of the total contract volume. The Liberty Island completed 499 loads with a reported volume of approximately 2.2 million cy (almost half of the total contract volume). The dredges Dodge Island and Padre Island completed 24 loads and 11 loads (respectively) with a reported volume of approximately 70,000 cy of work since their arrival on site. There is a continuous section of beach that has been nourished by the Liberty Island and the Texas from station 627+00 to station 1016+00 for a total of 38,900 ft (~7.4 miles). There is another section of beach that has been nourished by the Dodge Island and the Padre Island between station 536+00 and 522+00 for a total of 1,400 ft. Therefore, the total finished sections are about 40,300 ft (~7.6 miles) as of today.



2) CSE On Site Observation and Survey Plan For Hurricane Irene

CSE's personnel plan to remain on site before and during the hurricane. They conducted a pre-storm survey along the visible beach to low water on Tuesday, August 23. They will make site observations during the hurricane passage, and will conduct a post-storm survey on the beach after the storm passage. The data collected by CSE before and after the storm will be used to calculate the volume loss on the visible beach.

3) Beach Monitoring and Maintenance Plan

The town will hold an emergency board meeting at 5 pm, August 25 before the passage of Hurricane Irene. A beach monitoring and maintenance plan will be presented and discussed in the meeting. Such a plan is in accordance with relevant regulations issued by the Federal Emergency Management Agency (FEMA). The town will take steps to ensure that they are compliant with FEMA criteria to replace material that could be lost due to storm erosion between the dune line and 19 ft below mean sea level.

4) Sea Turtle Monitoring on the Beach

Morning ATV patrols will be suspended Friday through Sunday. Night time monitoring plans will be made based on GLDD's work plans for beach activity.

5) Anticipated events and schedule for next week

*Thursday, 1 September, at 9 a.m. — Weekly project meeting at the Town Hall
(The Town, the Contractor, and the Engineer are expected to attend.)*

Enclosure: List of attendees and their contact information