



July 21, 2011

Weekly Meeting Memo CSE-10

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, 21 July 2011, at the Town Hall. Items discussed during the meeting are summarized herein.

1) GLDD Production Updates

Both dredges have been working efficiently during the past week and have made significant progress. The Liberty Island completed the sections adjacent to the south side of Jennett's Pier on Wednesday morning, 20 July 2011, and on this date the pipe elbow was flipped and pumping is proceeding southward from the landing point at station 825+00. She was pumping at station 832+00 on the morning of this meeting.

The Texas continued to pump northward from the landing point at station 960+50, and was pumping at station 906+00 on the morning of this meeting.

Together the dredges have moved approximately 1.777 million cubic yards of sand, which is ~39 percent of the total contract volume. About 19,000 linear feet of beach has been nourished, which is ~36 percent of the total project area.



2) Sandbag Issues

The CAMA staff placed stakes in front of the following properties (Liberty Island sections) over the past week:

Yachtsman and Diamond Shoals (stations 794+00 to 798+00)

Comfort Inn (station 790+00)

Dolphin Motel (station 787+00)

Stakes were also placed in front of the property near Eagle Street at station 915+00 (Texas section). CAMA staff will place stakes in front of the properties near Whitecap and Ciltvaira Streets (stations 831+00 to 833+00), Harvest Street (station 840+00), Tides Drive (stations 850+00 and 851+00), Dunes South Condo (stations 854+00 to 857+00), and at a property near station 864+00. These are the sections that the Liberty Island is expected to encounter this coming week if she proceeds southward according to the present schedule. During the coming week, the Texas will not be pumping near properties with sandbags.

During the past week there were no reports of sandbag removal.

3) Easement Updates

The Town is still waiting for a few pending easements for properties in the northern part of the project area. A lawsuit involving about twenty properties in the historical area of Nags Head is likely to be settled with the Town soon.

4) Dredging Quality Management (DQM) Report from the USACE

A DQM report from the USACE Mobile District Operation Division was received on July 20th. It is a summary of the Liberty Island's profile between July 12th and 19th. Three issues were addressed in an email which was sent along with the report. These issues along with GLDD's response are discussed below:

(1) Load number regression on load 177/178

Response: This may have been caused by a simple input error.



(2) Spikes in dredge speed

Response: There may have been miss-recorded coordinates during dredge motion, and this coordinate jump may result in a high speed which causes spikes in the dredge record.

(3) Aft ullage sensors need checking. Lens may be dirty.

Response: The lens is cleaned on a regular basis, and GLDD will have the lens cleaned soon.

In spite of these issues, GLDD representatives stated that the present DQM report they received states that they are still in compliance with regulations.

5) **Dead Sea Turtle Stranded on the Beach**

A dead turtle was found in the project area near Loon Street (station 1003+00) last Saturday morning, July 16. The sea turtle monitoring coordinator, Christian Legner, attended the meeting today, and discussed this situation in detail. She explained that the animal was highly decomposed and appeared to be an adult loggerhead. Photos were taken and a necropsy was conducted by NEST professionals. CSE immediately reported the situation to the regulators, the Town and the contractor. At the time of the sighting, the active construction area was about 1 mile north of the turtle's location. Since there were no reports of incidents on the Liberty Island dredge, the trawler, or on the beach in the active project area, CSE assumed that this is a non-project related incident. The USACE project manager evaluated the situation and determined that all authorized activities should continue. Regulators agreed with CSE that the carcass could have washed upon the beach from other locations, and the cause of death is undetermined at this time.

According to the NEST observers on the scene and the turtle monitoring coordinator, such strandings are common and occur nearly every summer along Dare County beaches. For example, there were 3 dead sea turtle strandings found in Nags Head last year (2010), and 7 were found in 2009.

6) **Sea Turtle Monitoring on the Beach**

There has been no deviation in sea turtle monitoring on the beach over the past week. Both the monitor coordinator and GLDD staff agree that effective communication is crucial to ensure



compliance with project permits, and both parties agreed to use radios to communicate on site. GLDD will give the monitors a 15 to 30 minutes “heads up” so that monitors can finish their work and escort vehicles in and out of the active construction area.

The turtle coordinator reminded attendees that the turtle nesting season is not over yet. One female mature turtle can lay 5 nests in one season, and that for every 10 turtle nests that are observed, it should be assumed that there is one additional nest that has not been found. With turtle hatchling season coming soon, baby turtles may come out from unreported turtle nests. The turtle monitors will continue to observe the project area, and be ready to relocate these hatchlings to another location if necessary.

7) Ocean Outfall Extension Project

The Town consulted CSE regarding the extension of the outfall at the southern end of the project area. Based upon NCDOT’s design, the Town decided to have a 48 ft extension for all four outfalls. Bids will be opened on 22 July 2011 provided 3 effective bids are received by that date.

8) Safety for Working Outside in the Heat

The heat index is expected to reach 111 °F today. GLDD’s safety officer advised anybody who needs to work outside in the heat to drink plenty of water, take a break, stay in an air-conditioned room once in a while, and watch out for early symptoms of heat stroke.

9) Anticipated events and schedule for next week

*Thursday, 28 July, 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