



July 14, 2011

Weekly Meeting Memo CSE-09

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 10:00 a.m. on Thursday, 14 July 2011, at the Town Hall. Items discussed during the meeting are summarized herein.

1) GLDD's Production Updates

The Liberty Island completed repairs and left Norfolk in the evening of July 12. She arrived at the jobsite and resumed pumping at 6:30 am, July 13. She finished 7 loads with a reported volume of 32,000 cubic yards of sand as of midnight on July 14. She was pumping at station 800+80 on the morning of this meeting.

The Texas completed repairs and left Norfolk in the evening of July 11. She arrived at the site and resumed pumping at 1:50 am, 13 July. She finished 47,000 cubic yards of sand as of midnight on July 14. She was pumping at station 918+00 in the morning of this meeting.

Both dredges have been working efficiently since they returned. However, the cold front during the last 24 hours and the first northeaster event will affect the production rate. GLDD will send an updated work schedule based on the present projection of completion.

2) Escarpment

There have been some brisk winds from the south-southwest direction towards Nags Head over the past week. Wave action has cut back the nourishment "berm" and has left escarpments that



are a few feet tall at the edge of the surf along thousands feet of the beach. Beach goers, life guards, and the town staff noticed such escarpments, and CSE staff monitored the height and length of these escarpments. CSE's measurements showed that about 3,000 ft of escarpment occurred in the active work areas south of Jennett's Pier. GLDD agreed to level those escarpments immediately at no extra cost.

CSE's measurements also showed that there were about 3,600 ft of escarpment occurring in completed sections outside the active project area north of Jennett's Pier. Due to the fact that no town equipment is available to do work immediately, the Town asked GLDD to complete this task at an agreed cost. GLDD leveled the escarpments in the completed sections on Saturday evening, and re-leveled them on Sunday morning when the escarpment re-occurred at some sections.

According to the state permit, any escarpments greater than 18 inches that are present between May 1st and August 30th shall be leveled, and the Town shall implement the escarpment monitoring and associated leveling for three years post construction.

As to unnourished areas, neither GLDD nor the Town is responsible for leveling those escarpments under the permits.

CSE staff monitored the whole beach early on the morning of this meeting. No escarpments were observed. CSE and GLDD will continue to monitor the beach, and encourage the town staff and life guards to report any escarpment that is greater than 18 inches so that it can be addressed as soon as possible.

3) Sandbag Issues

CAMA representatives indicate they will stake out sandbags at a property near Eagle Street (station 915+00) which will be affected by the Texas soon. No other properties are of immediate concern for the Texas. CAMA will also place stakes in front of the three properties that the Liberty Island will encounter this week. No sandbags were removed over the past week.

4) Easement Updates

The Town received a few more signed easements over the past week. The number of un-acquired easements is down to about four. If an easement of a property is not in place by the time construction is in front of the property, and if the Mean High Water (MHW) line is in front of the



property is within the design template, the contractor will not be able to fill the beach as designed but will only work seaward of the MHW line. The Hardesty House at Surfside Drive is an example of what a nourished beach looks like in front a property where an easement is not in place.

5) Sea Turtle Monitoring on the Beach

There were some disagreements between GLDD pump site staff and the turtle monitor on the night of July 6. Some vehicle traffic originating from the un-active construction site of the Liberty Island left without escorts by the monitor. The dispute resolved quickly and there has been no deviation since then.

GLDD believes it was a communication problem that caused such dispute. GLDD suggested that the monitor coordinator attend the weekly project meeting, so that more efficient communication can be accomplished in the future as both parties are present.

6) Ocean Outfall Extensions Project

The Director of Public Works of the Town indicated that DOT is modifying the outfall design and the Town is planning to issue a new bid form to reflect such modification. Therefore, the bid opening date has been postponed from July 15 to July 22.

7) Sand Fencing for Dune Restoration

The Director of Public Works indicated that the Town has adequate funding for the sand fencing installation based on a calculation of \$32 per 10 ft section for 9,000 ft of beach (Reach 3). The Town will issue an official notice for sand fencing application after the nourishment project, and CSE will provide the Town with recommendations as to where to place the fencing.

8) Anticipated events and schedule for next week

*Thursday, 21 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