



June 14, 2010

Mr. Cliff Ogburn, Town Manager  
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RE: Nags Head Beach Nourishment Project (CSE 2203-01)  
**Progress Update (June)**

Dear Cliff:

Following is a summary of progress and CSE activities this month in connection with the above-referenced project.

- The federal, final environmental impact statement (FEIS) was completed and submitted to USACE for distribution to federal agencies (12 sets of reports in 4-inch binders delivered on 8 June along with electronic copies).
- The USACE (c/o Raleigh Bland) is preparing a public notice to be published in the Federal Register announcing the completion of the FEIS. The notice provides 30 days for comments, after which the FEIS becomes officially “final.” This is the last remaining hurdle before the USACE issues its permit for the project.

Raleigh Bland is working with Elizabeth Porter (Wilmington Division) on the language for the public notice. He assured us it would be published in the next few weeks and that he does not anticipate any further surprises. This will clear the way for permit issuance.

- Field data collection for the first environmental monitoring survey was successfully completed the week of 7 June. The firm, CZR Incorporated (CZR), with support and assistance by CSE staff, obtained 40 beach samples and 20 offshore samples for purposes of determining the numbers of organisms in the project area and adjacent “control” areas.
- CZR will process and analyze the samples for organisms, and CSE will measure the sediment grain-size distribution in the lab per requirements of the CAMA major permit and environmental monitoring plan. CSE’s sediment tests will be completed by 25 June. Due to more involved procedures, CZR’s sample sorting and identification will require approximately two months.
- CSE is preparing engineering and final design analyses for the project (Task 3), including model simulations of alternate fill densities (ie – how much sand to add from place to place along the



10-mile project area). This is accomplished using state-of-the-art coastal engineering models. The purpose of these analyses is to determine how best to apportion the nourishment so that it will last longer. Erosion rates along Nags Head increase north to south, so we are seeking the best balance of fill volumes.

- CSE prepared and submitted a budget amendment request on 31 May detailing additional costs incurred by CSE in connection with permitting. The amended budget for permitting and engineering is an increase of ~11 percent over CSE's original agreement of November 2005. Engineering and permitting costs under the amended budget remain ~5.5 percent of construction.
- CSE is preparing a set of maps illustrating the normal, high waterline with respect to existing development, per the Town's request. These maps will indicate how many houses are seaward of the normal swash line. The nourishment design must necessarily work around these obstructions without causing further damages.

If you have any questions about the state of our progress, please call any time. Thank you for your consideration.

Yours truly,

Coastal Science & Engineering (CSE)

A handwritten signature in black ink that reads "Timothy W Kana". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Timothy W Kana PhD PG  
Project Director

cc: D Dusini PE  
H Kaczkowski PE  
S Traynum  
T Hair