

# APPENDIX L

## Proposed Manteo, Old House Channel, NC Section 204 Project, Dare County North Carolina

### Evaluation of Section 404 (b) (1) Guidelines 40 CFR 230

This evaluation covers the construction of Manteo, Old House Channel, NC Section 204 Project, Dare County, North Carolina.

#### Section 404 Public Notice No. CESA-W-TS-PE-04-0010

	Preliminary <u>1/</u>	Final <u>2/</u>
1. <u>Review of Compliance (230.10(a)-(d))</u> A review of the NEPA Document indicates that:		
a. The discharge represents the least environmentally damaging practicable alternative and if in a special aquatic site, the activity associated with the discharge must have direct access or proximity to, or be located in the aquatic ecosystem to fulfill its basic purpose (if no, see section 2 and NEPA document);	YES ✓ NO <input type="checkbox"/>	YES ✓ NO <input type="checkbox"/>
b. The activity does not: 1) violate applicable State water quality standards or effluent standards prohibited under Section 307 of the CWA; 2) jeopardize the existence of federally listed endangered or threatened species or their habitat; and 3) violate requirements of any federally designated marine sanctuary (if no, see section 2b and check responses from resource and water quality certifying agencies);	YES ✓ NO <input type="checkbox"/> *	YES ✓ NO <input type="checkbox"/>
c. The activity will not cause or contribute to significant degradation of waters of the U.S. including adverse effects on human health, life stages of organisms dependent on the aquatic ecosystem, ecosystem diversity, productivity and stability, and recreational, aesthetic, and economic values (if no, see section 2);	YES ✓ NO <input type="checkbox"/>	YES ✓ NO <input type="checkbox"/>
d. Appropriate and practicable steps have been taken to minimize potential adverse impacts of the discharge on the aquatic ecosystem (if no, see section 5).	YES ✓ NO <input type="checkbox"/> *	YES ✓ NO <input type="checkbox"/>

Proceed to Section 2

\*, 1, 2/ See page 6.

2. Technical Evaluation Factors (Subparts C-F)

N/A

Not Significant

Significant

a. Physical and Chemical Characteristics of the Aquatic Ecosystem (Subpart C)

- (1) Substrate impacts.
- (2) Suspended particulates/turbidity impacts
- (3) Water column impacts.
- (4) Alteration of current patterns and water circulation.
- (5) Alteration of normal water fluctuations/hydroperiod.
- (6) Alteration of salinity gradients.

	X	
	X	
	X	
	X	
X		
X		

b. Biological Characteristics of the Aquatic Ecosystem (Subpart D)

- (1) Effect on threatened/endangered species and their habitat.
- (2) Effect on the aquatic food web.
- (3) Effect on other wildlife (mammals birds, reptiles, and amphibians).

	X	
	X	
	X	

c. Special Aquatic Sites (Subpart E)

- (1) Sanctuaries and refuges.
- (2) Wetlands.
- (3) Mud flats.
- (4) Vegetated shallows.
- (5) Coral reefs.
- (6) Riffle and pool complexes.

	X	
	X	
X		
	X	
X		
X		

d. Human Use Characteristics (Subpart F)

- (1) Effects on municipal and private water supplies.
- (2) Recreational and commercial fisheries impacts
- (3) Effects on water-related recreation.
- (4) Aesthetic impacts.
- (5) Effects on parks, national and historical monuments, national seashores, wilderness areas, research sites,, and similar preserves.

X		
	X	
	X	
	X	
	X	

Remarks: Where a check is placed under the significant category, preparer add explanation below.

Proceed to Section 3

\*See page 6.

3. Evaluation of Dredged or Fill Material (Subpart G) 3/

a. The following information has been considered in evaluating the biological availability of possible contaminants in dredged or fill material. (Check only those appropriate.)

- (1) Physical characteristics. . . . .
- (2) Hydrography in relation to known or anticipated sources of contaminants . . . . .
- (3) Results from previous testing of the material or similar material in the vicinity of the project . . . . .
- (4) Known, significant sources of persistent pesticides from land runoff or percolation . . . . .
- (5) Spill records for petroleum products or designated (Section 311 of CWA) hazardous substances . . . . .
- (6) Other public records of significant introduction of contaminants from industries, municipalities, or other sources. . . . .
- (7) Known existence of substantial material deposits of substances which could be released in harmful quantities to the aquatic environment by man-induced discharge activities. . . . .
- (8) Other sources (specify). . . . .

b. An evaluation of the appropriate information in 3a above indicates that there is reason to believe the proposed dredge or fill material is not a carrier of contaminants, or that levels of contaminants are substantively similar at extraction and disposal sites and not likely to result in degradation of the disposal site.

YES  NO \*

Proceed to Section 4  
\*, 3/, see page 6.

4. Disposal Site Determinations (230.11(f)).

a. The following factors as appropriate, have been considered in evaluating the disposal site.

- (1) Depth of water at disposal site. . . . . ✓
- (2) Current velocity, direction, and variability at disposal site . . . . . ✓
- (3) Degree of turbulence. . . . . ✓
- (4) Water column stratification . . . . . ✓
- (5) Discharge vessel speed and direction . . . . . ✓
- (6) Rate of discharge . . . . . ✓
- (7) Dredged material characteristics (constituents, amount and type of material, settling velocities). . . . . ✓
- (8) Number of discharges per unit of time. . . . . ✓
- (9) Other factors affecting rates and patterns of mixing (specify)

b. An evaluation of the appropriate factors in 4a above indicates that the disposal site and/or size of mixing zone are acceptable.

YES ✓ NO \*

5. Actions to Minimize Adverse Effects (Subpart H).

All appropriate and practicable steps have been taken, through application of recommendations of 40 CFR Parts 230.70-230.77, to ensure minimal adverse effects of the proposed discharge. List actions taken.

YES ✓ NO \*

Actions to Minimize Adverse Effects are listed in FONSI attachment 1.

Return to section 1 for final stage of compliance review. See also note 3/, page 3.

\*See page 6.

6. Factual Determinations (230.11).

A review of appropriate information as identified in items 2-5 above indicates that there is minimal potential for short- or long-term environmental effects of the proposed discharge as related to:

- a. Physical substrate at the disposal site (review sections 2a, 3, 4, and 5). YES  NO \*
- b. Water circulation, fluctuation, and salinity (review sections 2a, 3, 4, and 5). YES  NO \*
- c. Suspended particulates/turbidity (review sections 2a, 3, 4, and 5). YES  NO \*
- d. Contaminant availability (review sections 2a, 3, and 4). YES  NO \*
- e. Aquatic ecosystem structure and function (review sections 2b and c, 3, and 5). YES  NO \*
- f. Disposal site (review sections 2, 4, and 5). YES  NO \*
- g. Cumulative impact on the aquatic ecosystem. YES  NO \*
- h. Secondary impacts on the aquatic ecosystem. YES  NO \*

7. Findings.

- a. The proposed disposal site for discharge of dredged or fill material complies with the Section 404(b)(1) guidelines. . . . .
- b. The proposed disposal site for discharge of dredged or fill material complies with the Section 404(b)(1) guidelines with the inclusion of the following conditions: . . . . .
- c. The proposed disposal site for discharge of dredged or fill material does not comply with the Section 404(b)(1) guidelines for the following reasons(s):
  - (1) There is a less damaging practicable alternative . . . . .
  - (2) The proposed discharge will result in significant degradation of the aquatic ecosystem . . . . .

\*See page 6.

(3) The proposed discharge does not include all practicable and appropriate measures to minimize potential harm to the aquatic ecosystem. . . . .

8.



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District Commander

Date: 19 Nov 2014

\*A negative, significant, or unknown response indicates that the permit application may not be in compliance with the Section 404(b)(1) Guidelines.

1/ Negative responses to three or more of the compliance criteria at this stage indicate that the proposed projects may not be evaluated using this "short form procedure." Care should be used in assessing pertinent portions of the technical information of items 2 a-d, before completing the final review of compliance.

2/ Negative response to one of the compliance criteria at this stage indicates that the proposed project does not comply with the guidelines. If the economics of navigation and anchorage of Section 404(b)(2) are to be evaluated in the decision-making process, the "short form evaluation process is inappropriate."

3/ If the dredged or fill material cannot be excluded from individual testing, the "short-form" evaluation process is inappropriate.