



DRAWINGS TO ACCOMPANY THE APPLICATION FOR WATER QUALITY CERTIFICATE SUBMITTED TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

APPLICANT: U.S. ARMY CORPS OF ENGINEERS
 PROJECT: MAINTENANCE DREDGING, 10-FOOT PROJECT INDUSTRIAL CANAL, HENDRY COUNTY
 DATE: APRIL 2001 SHEET 1 OF 4

- Hazardous, Toxic, Radiological Waste

1.6 Permits Required

The Florida Department of Environmental Protection has reviewed the proposed maintenance dredging of the Industrial Canal and determined that the project qualifies for an exemption, pursuant to Rule 40E-4.051(2)(a), Florida Administrative Code. This project is waived water quality certification under Public Law 92-500 and has been found to be in concurrence with Florida's Coastal Zone Management Program (see Appendix A for the FDEP Exemption letter).

2.0 ALTERNATIVES

2.1 Introduction

The Alternatives Section is perhaps the most important component of this Environmental Assessment. It describes the no-action alternative, the proposed dredging alternative, as well as the dredged material disposal options. The beneficial and adverse environmental effects of the alternatives are presented in comparative form, providing a clear basis for choice to the decision-maker and the public. A preferred alternative was selected based on the information and analysis presented in the sections on the Affected Environment and Probable Impacts.

2.2 Description of Alternatives

2.2.1 Alternative A – Dredging Alternative

This alternative consists of dredging 700 feet of the Industrial Canal between Lock S-310 and the SFOO boat basin. An estimated 15,000 cubic yards of material would be dredged. The canal would be excavated to a depth of – 8 feet mean lake level. If necessary, dredging may also be performed in C-21. C-21 is a flood control feature, which intersects the Industrial Canal at S-310. Dredging C-21 would provide adequate water flow to the Industrial Canal.

2.2.2 Alternative B – No Action

The no action alternative would allow existing conditions to continue. Normal shoaling would continue, therefore, not allowing adequate navigation depth for the SFOO floating plant and marine equipment.

2.2.3 Alternative Disposal Sites

2.2.3.1 Disposal Area 1: This upland disposal area is on SFOO property located immediately adjacent to the dredging area. The pipeline discharge point would be at the north end of the disposal area.

2.2.3.2 Disposal Area 2: This upland disposal area is located adjacent to SFOO property on Hendry County property. A discharge location has not yet been determined.

2.3 Preferred Alternative

The preferred alternative is to dredge the Industrial Canal in order to provide adequate navigation depth for the SFOO floating plant and marine equipment. The canal would be excavated to a depth of - 8 feet MLL. Approximately 15,000 cubic yards of material would be dredged. If necessary, the preferred alternative would involve the dredging of C-21 to improve the water flow to the Industrial Canal. The preferred disposal area would be on SFOO property (Disposal Area 1) adjacent to the Industrial Canal.

2.4 Comparison of Alternatives

Table 1 provides a summary of potential impacts for each of the project alternatives. See section 4.0 Environmental Effects for a more detailed discussion of impacts of alternatives.

3.0 AFFECTED ENVIRONMENT

3.1 Introduction

The Affected Environment Section succinctly describes the existing environmental resources of the areas that would be affected if any of the alternatives were implemented. This section describes only those environmental resources that would affect or that would be affected by the alternatives if they were implemented, not the entire existing environment. This section and the description of the "no action" alternative provides the basic information for determining the environmental impacts of the proposed action and reasonable alternatives.

Table 1: Summary of Direct and Indirect Impacts

ALTERNATIVE ENVIRONMENTAL FACTOR	ALTERNATIVE A: DREDGING	ALTERNATIVE B: NO-ACTION	DISPOSAL AREA 1	DISPOSAL AREA 2
VEGETATION	No Impact	No Impact	No Impact	No Impact
THREATENED AND ENDANGERED SPECIES	No Significant Impact to Manatees. The standard manatee protection measures would be implemented.	No Impact	No Impact	No Impact
FISH AND WILDLIFE RESOURCES (other than T&E species)	Minor short-term disturbance	No Impact	No Impact	No Impact
ESSENTIAL FISH HABITAT	No Impact	No Impact	No Impact	No Impact
WATER QUALITY	Temporary increase in turbidity	No direct impact on water quality.	No Impact	No Impact
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AIR QUALITY	No long-term significant impacts would occur. Short-term effects to air quality may occur during dredging.	No Impact	No Impact	No Impact

Table 1 continued: Summary of Direct and Indirect Impacts

ALTERNATIVE ENVIRONMENTAL FACTOR	ALTERNATIVE A: DREDGING	ALTERNATIVE B: NO-ACTION	DISPOSAL AREA 1	DISPOSAL AREA 2
SOCIOECONOMICS	Long-term benefit for SF00. Local community may benefit (commercial and recreational boating) if private dredging is done in conjunction. Temporary impact due to dredge equipment on site.	Major impact to SF00. Local community could be impacted if dredging is not done.	No Impact	No Impact
AESTHETIC RESOURCES	Temporary impact due to dredge equipment on site.	No Impact	Temporary adverse effect.	No Impact
RECREATIONAL RESOURCES	Recreational boaters may benefit when using the canal to access the lake.	Recreational boaters would continue to be impacted by increased shoaling.	No Impact	No Impact
NAVIGATION	Adequate navigation depth would be provided.	Vessels would not be able to navigate due to increased shoaling.	No Impact	No Impact
HISTORIC PROPERTIES	No Impact	No Impact	No Impact	No Impact