

APPENDIX E
TECHNICAL REQUIREMENTS AND REFERENCES

TECHNICAL REQUIREMENTS

The work to be performed consists of a feasibility level effort, in accordance with the schedules and budgets included herein, to further the development of the CERP. The study will also develop an implementation process that incorporates an adaptive management approach to project implementation to include an incremental justification process based on monitoring, evaluation and modeling. This work includes preparation of the appropriate NEPA document, environmental output evaluation, incremental cost analysis, cost effectiveness analysis, the necessary survey and geotechnical investigations, a hydraulic analysis, hydrologic investigations, design calculations and drawings, GIS database development, preparation of a detailed construction cost estimate, real estate investigations, socio-economic impact analysis, environmental justice study, study and project management, and coordination with local, state and Federal agencies as well as other interest groups and the public. The scope of studies in terms of content and level of detail for the feasibility phase study effort are as defined and required by the following Federal documents:

ER 1105-2-100 dtd 22 Apr 2000	"Guidance for Conducting Civil Works Planning Studies" Department of the Army regulation on Policy and Guidance for the conduct of civil works planning studies.
ER 5-7-1(FR) dtd 30 Sept 1992	"Project Management" Department of the Army regulation for the overall management of civil works projects.
ER 200-2-2 dtd 4 Mar 1988	"Procedures for Implementing NEPA" Department of the Army regulation on 33 CFR 230 Environmental Quality.
EC 1165-2-201 (Draft) dtd 1 June 1995	"Ecosystem Restoration in the Civil Works Program" Department of the Army policy guidance for ecosystem restoration. This EC modifies PGL 24 by eliminating the "project linkage" and "modern historic condition" requirements. All other provisions of PGL 24 remain in effect.
IWR Report 94-PS-2 dtd Oct 1994	"Cost Effectiveness Analysis for Environmental Planning: Nine Easy Steps" Report developed by the Institute of Water Resources to assist field practitioners conduct cost effectiveness and

	incremental cost analysis in planning for environmental restoration and mitigation.
PGL No. 24 dtd 7 Mar 1991	"Restoration of Fish and Wildlife Habitat Resources" Department of the Army Policy Guidance Letter (PGL) on accomplishing fish and wildlife habitat restoration.
ER 405-1-12 (Draft) dtd 28 May 1991	"Real Estate Handbook - Local Cooperation" - Chapter 12 Department of the Army regulation establishing guidelines for real estate activities for local cooperation agreements.
ER 1110-2-1150 dtd 31 Mar 1994	"Engineering and Design for Civil Works Projects" Department of the Army regulation describes engineering responsibilities during the planning, design, construction, and operations phases of civil works projects.
ER 1165-2-132 dtd 26 Jun 1992	"Hazardous, Toxic, and Radioactive Waste (HTRW) Guidance for Civil Works Projects" Department of the Army regulation provides guidance for consideration of issues and problems associated HTRW which may be located within project boundaries or may effect civil works projects.
ER 1110-1-1300 dtd 26 Mar 1993	"Cost Engineering Policy and General Requirements" Engineering Regulation providing cost engineering policy, guidance, and procedures for all projects assigned to the U.S. Army Corps of Engineers.
EC 1110-2-1302 dtd 31 Mar 1994	"Civil Works Cost Engineering" Engineer Regulation providing policy, guidance, and procedures for cost engineering responsibilities for all Civil Works projects assigned to the U.S. Army Corps of Engineers.
U.S. Water Resources Council Publication dtd 10 March 1983	"Economic and Environmental Principles and Guidelines for Water and Related Land Resources Implementation Studies."

Technical References

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Evans, D.W., P.H. Crumley, D. Rumbold, S. Niemczyk, and K. Laine. 2001. Linking Everglades restoration and enhanced freshwater flows to elevated concentrations of mercury in Florida Bay fish. Abstract presented at Florida Bay Science Conference, April 23-26, 2001, Key Largo, FL.

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Rudnick, D.T., Z. Chen, D.L. Childers, J.N. Boyer, and T.D. Fontaine III. 1999. Phosphorus and nitrogen inputs to Florida Bay: the importance of the Everglades watershed. *Estuaries* 22:398-416,

U.S. Army Corps of Engineers. 1999. Central and South Florida Project Comprehensive Review Study. Final Integrated Feasibility Report and Programmatic Environmental Impact Statement. Jacksonville District Office; Jacksonville, Florida.

U.S. Fish and Wildlife Service and National Marine Fisheries Service. 1998. Endangered species consultation handbook. Procedures for conducting consultation and conference activities under Section 7 of the Endangered Species Act. U.S. Government Printing Office; Washington D.C.

Zieman, J.C., J.W. Fourqurean, and T.A. Frankovich. 1999. Seagrass die-off in Florida Bay: long-term trends in abundance and growth of turtle grass, *Thalassia testudinum*. *Estuaries* 22:460-470.