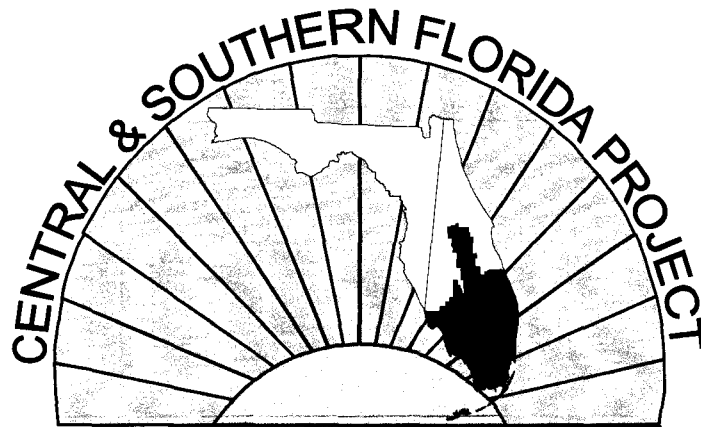


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Final

12/15/05
OCTOBER 2005

CENTRAL AND SOUTHERN FLORIDA PROJECT

COMPREHENSIVE EVERGLADES RESTORATION PLAN



COMPREHENSIVE EVERGLADES RESTORATION PLAN

PROJECT MANAGEMENT PLAN

Everglades National Park Seepage Management



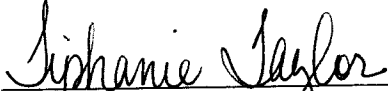
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Jacksonville District**

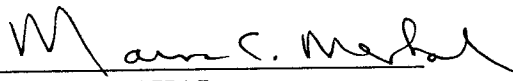


**South Florida Water
Management District**

APPROVALS

FOR THE PROJECT DELIVERY TEAM:

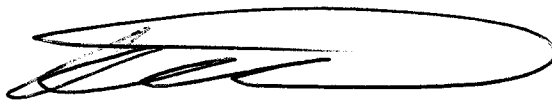

TIPHANIE TAYLOR
Project Manager, USACE


MAURA MERKAL
Project Manager, SFWMD

FOR THE DESIGN COORDINATION TEAM:

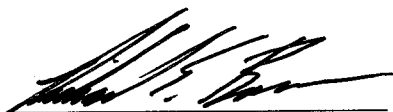

DENNIS R. DUKE, P.E.
Chief, Restoration Program Division

11/8/05
Date


KENNETH G. AMMON, P.E.
Deputy Executive Director
CERP, SFWMD

11/8/05
Date

FOR THE PROJECT REVIEW BOARD, USACE:


RICHARD E. BONNER, P.E.
Deputy District Engineer for
Project Management, USACE

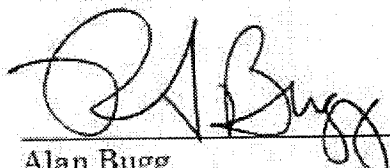
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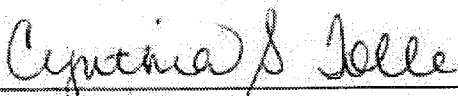
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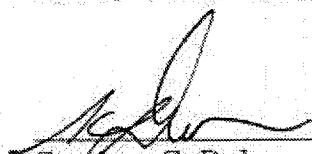
APPROVALS

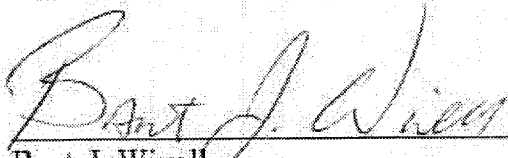
FOR THE CORPS PMP DEVELOPMENT TEAM:


by Stu Appelbaum
Chief, Planning Division


Alan Bugg
Chief, Construction Operations Division


Cynthia Tolle
Acting Chief, Contracting Division


Stephen C. Duba
Chief, Engineering Division


Bart J. Wivell
Chief, Real Estate Division


Dennis Duke
Chief, Restoration Program Division


John Pax
Acting District Counsel



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APPROVALS

FOR THE CORPS PMP DEVELOPMENT TEAM:

Tiphannie Taylor

Tiphannie Taylor
Project Manager

Greg Whittle

Greg Whittle
Engineering Technical Lead
Geotechnical Branch

Debbie Peterson

Debbie Peterson
Planning Technical Lead
Plan Formulation Branch

Robert Evans

Robert Evans
H&H Branch

Ernie Clarke

Ernie Clarke
Environmental Branch

Jean Pavlov

Jean Pavlov
Corporate Communications Office

Murika Davis

Murika Davis
Design Branch

Christopher Graham

Christopher Graham
Socio-Economics Branch

Sal Resurreccion

Sal Resurreccion
Environmental Branch

Jacob Davis

Jacob Davis
Geotechnical Branch

Jerrell Pennington

Jerrell Pennington
Cost Engineering Branch

Alison Al

Alison Al
Con-Ops Division

John Szep

John Szep
Contracting

Don Nelson

Don Nelson
Office of Counsel-Real Estate

Tony Ayuso

Tony Ayuso
Appraisal Branch

Erica Robbins

Erica Robbins
Corporate Communications Office

Vasu Rao

Vasu Rao
Design Branch

David Pugh

David Pugh
Environmental Branch

Lisa Gued

Lisa Gued
Geotechnical Branch

Stephanie Jenkins

Stephanie Jenkins
H&H Branch

Jessica McCaffrey

Jessica McCaffrey
Plan Formulation Branch

Fred McAuley

Fred McAuley
Value Engineering

Stacey Roth

Stacey Roth
Value Engineering

Martin Falmien

Martin Falmien
H&H Branch

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1.2 List of Acronyms

A-E	Architect-Engineer
AFB	Alternatives Formulation Briefing
AHPA	Archeological and Historic Preservation Act
ASA (CW)	Assistant Secretary of the Army for Civil Works
ASR	Aquifer Storage and Recovery
BA	Biological Assessment
BAT	Best Available Technologies
BMP	Best Management Practice
C&SF	Central and South Florida
CADD	Computer Assisted Drafting and Design
CAR	Coordination Act Report
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CERP	Comprehensive Everglades Restoration Plan
CESAJ	U.S. Army Engineer District, Jacksonville
CEQ	Council on Environmental Quality
cfs	Cubic Feet per Second
CGM	CERP Guidance Memorandum
CSOP	Combined Structural and Operational Plan
CWA	Clean Water Act
CZMA	Coastal Zone Management Act
CZMP	Coastal Zone Management Program
DCT	Design Coordination Team
EA	Environmental Assessment
EAA	Everglades Agricultural Area
EIS	Environmental Impact Statement
ENP	Everglades National Park
EPA	U.S. Environmental Protection Agency
ER	Engineering Regulation
ESA	Endangered Species Act
ETL	Engineering Technical Lead
FAS	Floridan Aquifer System
FDACS	Florida Department of Agriculture and Consumer Services
FDCA	Florida Department of Consumer Affairs
FDEP	Florida Department of Environmental Protection

FLUCFS	Florida Land Use, Cover, and Forms Classification System
FPPA	Farmland Protection Policy Act
FWC	Florida Fish and Wildlife Conservation Commission
FWCA	Fish and Wildlife Coordination Act
FSM	Feasibility Scoping Meeting
GDM	General Design Memorandum
GIS	Geographic Information Systems
GRR	General Reevaluation Report
H&H	Hydrology and Hydraulics
HQ	Headquarters
HTRW	Hazardous, Toxic, and Radioactive Waste
IMC	Interagency Modeling Center
IPR	In-Progress Review
IRC	Issue Resolution Conference
ITR	Independent Technical Review
LERRD	Lands, Easements, Rights-of-way, Relocations, and Disposal
MBTA	Migratory Bird Treaty Act
MISP	Master Implementation Sequencing Plan
MPMP	Master Program Management Plan
MSFCMA	Magnuson-Stevens Fishery Conservation and Management Act
MWD	Modified Waters Deliveries
NED	National Economic Development
NEPA	National Environmental Policy Act
NER	National Ecosystem Restoration
NHPA	National Historic Preservation Act
NMFS	National Marine Fisheries Service
NOAA	U.S. National Oceanic and Atmospheric Administration
NPDES	National Pollutant Discharge Elimination System
NPS	U.S. National Park Service
NRCS	Natural Resources Conservation Service
O&M	Operation and Maintenance
OMB	Office of Management and Budget
OMRR&R	Operation, Maintenance, Repair, Replacement and Rehabilitation

OVEST	Office of the Chief of Engineers Value Engineering Study Team
P	Phosphorous
P&G	Principles and Guidelines
PAL	Planning Aid Letter
PAR	Planning Aid Report
PCA	Project Cooperation Agreement
PED	Pre-Construction, Engineering and Design
PIM	Project Implementation Monitoring
PIR	Project Implementation Report
PM	Project Manager
PMP	Project Management Plan
POM	Project Operating Manual
PRB	Project Review Board
PTL	Planning Technical Lead
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RECOVER	Restoration, Coordination, and Verification
REP	Real Estate Plan
Restudy	C&SF Project Comprehensive Review Study
ROD	Record of Decision
ROM	Rough Order of Magnitude
SAD	South Atlantic Division
SFWMD	South Florida Water Management District
SHPO	State Historic Preservation Office
SMA	Square Mile Area
SOP	Standard Operating Procedure
SOW	Scope of Work
STA	Stormwater Treatment Area
TSP	Tentatively Selected Plan
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Service
VE	Value Engineering
VEO	Value Engineering Officer
VM	Value Management

WBS	Work Breakdown Structure
WCA	Water Conservation Area
WQ	Water Quality
WQC	Water Quality Certification
WRDA	Water Resources Development Act

1.3 List of Project Management Plan Preparers

Members of the Project Team:

The following individuals from the U.S. Army Corps of Engineers (USACE), Jacksonville District (CESAJ) and the South Florida Water Management District (SFWMD) comprise the core working group for this Project:

Table 1-1: PROJECT MANAGEMENT PLAN PREPARERS

Name	Agency	Phone Number
Alison Ali	CESAJ	(904) 232-3135
Antonio Ayuso	CESAJ	(904) 232-2118
Bridget Appow	SFWMD	(561) 682-6004
Ernest Clarke	CESAJ	(904) 232-1199
Jacob Davis	CESAJ	(904) 232-1898
Murika Davis	CESAJ	(904) 232-1604
Robert Evans	CESAJ	(904) 232-2102
Martin Falmlen	CESAJ	(904) 232-2205
Cynthia Gefvert	SFWMD	(561) 682-2610
Christopher Graham	CESAJ	(904) 232-3376
Lisa Gued	CESAJ	(904) 232-1793
Stephanie Jenkins	CESAJ	(904) 232-1612
Steve Krupa	SFWMD	(561) 682-6923
Fred McAuley	CESAJ	(904) 232-1903
Jessica McCaffrey	CESAJ	(904) 232-2254
Maura Merkal	SFWMD	(561) 561-6179
Donald Nelson	CESAJ	(904) 232-3874
Jerrell Pennington	CESAJ	(904) 232-3755
Debbie Peterson	CESAJ	(904) 614-5064
David Pugh	CESAJ	(904) 232-1361
Vasu Rao	CESAJ	(904) 232-2409
Laura Reilly	SFWMD	(561) 682-6875
Salvador Resurreccion	CESAJ	(904) 232-1850
Erica Robbins	CESAJ	(561) 683-1577
Stacey Roth	CESAJ	(904) 232-1055
Larry Robinson	SFWMD	(305) 513-3420 x 7102
Charles Scott	SFWMD	(305) 377-7274 x 7280
Sherry Scott	SFWMD	(561) 682-6803
Wanda Simpson	SFWMD	(561) 682- 6445
John Szep	CESAJ	(904) 232-1884
Tiphannie Taylor	CESAJ	(904) 232-1548
Scott Thorp	SFWMD	(305) 242-5933 x 7001
Gregory Whittle	CESAJ	(904) 232-3729
Shi Xue	SFWMD	(561) 682-2333

2.0 PROJECT INFORMATION

2.1 Background

The Everglades National Park (ENP) Seepage Management Project is comprised of three components that were recommended as a part of the Central and Southern Florida (C&SF) Project Comprehensive Review Study Feasibility Report and Integrated Environmental Impact Statement (EIS), dated April 1999 (Restudy). The three components are:

- S-356 Structures – *Component FF*
- L-31N Improvements for Seepage Management – *Component V*
- Bird Drive Recharge Area – *Component U*

2.2 Authority

The Water Resources Development Act (WRDA) 2000 (Public Law 106-541) approved the Comprehensive Everglades Restoration Plan (CERP) as the framework and guide for modifications to the C&SF Project to restore the south Florida ecosystem and to provide for other water-related needs of the region.

The authority for CERP is contained within the Water Resources Development Act (WRDA) 2000 in Section 601(b)(A), which states:

(b) Comprehensive Everglades Restoration Plan Approval –

(A) IN GENERAL. —Except as modified by this section, the Plan is approved as a framework for modifications and operational changes to the Central and Southern Florida Project that are needed to restore, preserve, and protect the South Florida ecosystem while providing for other water-related needs of the region, including water supply and flood protection. The Plan shall be implemented to ensure the protection of water quality in, the reduction of the loss of fresh water from, and the improvement of the environment of the South Florida ecosystem and to achieve and maintain the benefits to the natural system and human environment described in the Plan, and required pursuant to this section, for as long as the project is authorized.

The authority for this project is contained in Section 601(d) of WRDA 2000, which states:

(d) AUTHORIZATION OF FUTURE PROJECTS-

(1) IN GENERAL- Except for a project authorized by subsection (b) or (c), any project included in the Plan shall require a specific authorization by Congress.

(2) SUBMISSION OF REPORT- Before seeking congressional authorization for a project under paragraph (1), the Secretary shall submit to Congress--

(A) a description of the project; and

(B) a project implementation report for the project prepared in accordance with subsections (f) and (h).

2.3 Related Projects

There are several projects that will be implemented around the ENP Seepage Management project that could affect the hydrology in the project area. The following projects should be given special consideration during formulation as they may induce changes at the local scale of this project.

2.3.1 Modified Water Deliveries to Everglades National Park

Structural modifications and additions to the existing C&SF Project are required to enable water deliveries for the restoration of more natural hydrologic conditions in ENP. These improvements include: 1) structures S-349A, B&C in the L-67A borrow canal to prevent overdrainage of northern Water Conservation Area (WCA) 3A, 2) structures S-345A, B&C for the discharge of water from WCA 3A to WCA 3B, 3) structures S-355A and S-355B in L-29 to enable the release of water from WCA 3B to ENP, 4) modifications to existing S-344, and 5) raising Highway US 41 (Tamiami Trail). Together these improvements will enable the reestablishment of the historic Shark River Slough flow-way from WCA 3A through WCA 3B to ENP.

In order to prevent this redistribution of water from adversely impacting existing development, several mitigation features are included in the plan. One Miccosukee Indian camp (Tigertail Camp) will be raised above the anticipated flood stages (completed). Under the authorized project, the East Everglades residential area, also known as the 8.5 square mile area (8.5 SMA), will be provided with perimeter levees and a seepage collector canal to prevent increased water levels inside the 8.5 SMA after project implementation (i.e. flood mitigation). A new pump station, S-356 (completed), will be constructed adjacent to existing S-334, and will remove additional seepage from ENP into the L-31N borrow canal and thereby prevent increased flood damages east of the L-31N or in the downstream C-111 basin. Existing roads and borrow canals within the ENP expansion area that would act as hydrologic barriers will be degraded to natural ground.

2.3.2 C-111 Project

The C-111 project is located in the extreme southeastern portion of Florida, adjacent to ENP. Canal 111 (C-111) is a part of the southern Miami-Dade County portion of the C&SF project authorized in 1962 to provide flood control to agricultural lands in south Miami-Dade County and to discharge flood waters to Taylor Slough in the ENP. In 1968, modifications were authorized to provide water supply to ENP and Miami-Dade County. Environmental concerns caused construction to be discontinued before all authorized project features were completed.

C-111 separates ENP from highly productive subtropical agricultural lands to the east. Because of the extreme permeability of the Biscayne Aquifer in the Miami-Dade County area, the project canals have a direct impact on water levels in adjacent areas. The C-111 General Reevaluation Report (GRR) with integrated Environmental Impact Statement (EIS) was completed and approved in 1994. It recommended project modifications designed to maintain existing flood protection and other C&SF project purposes in developed areas east of C-111 while restoring natural hydrologic conditions in the Taylor Slough and eastern panhandle areas of the ENP. Increased freshwater flows in these areas will also help conditions in Florida Bay, a part of the ENP. The C-111 GRR, approved in July 1994, recommends the development of an operational plan for Shark River Slough and Taylor Slough. The USACE and SFWMD are currently in the process of preparing a document that addresses the 50/50 land crediting issues, both authorized by WRDA 1996 and ENP land swap.

2.3.3 Combined Structural and Operational Plan

Many of the water control features of the Modified Water Deliveries (MWD) and C-111 projects are interdependent in their respective operations and objectives to restore the natural distribution and flow of water in the Southern Everglades. The Combined Structural and Operational Plan (CSOP) will integrate operations of the MWD and C-111 projects and develop a unified water control plan to restore the hydrology of ENP while also maintaining existing levels of flood control for the C-111 basin. Portions of the MWD and C-111 project features are expected to become operational following interim operating guidelines established under the CSOP.

2.3.4 East Canal Structure (S-380 Improvements)

The S-380 water control structure is located at the intersection of the Dade-Broward levee and the C-4 canal in Dade County. This structure was authorized as a Critical Restoration Project in WRDA 2000. The conceptual water control plan for this structure is intended to maximize environmental, water supply and flood control benefits. This project was completed in 2004.

2.3.5 Wastewater Technology Reuse Pilot

The purpose of this project is to determine levels of treatment and technologies needed to discharge reclaimed water into natural areas, determine the ecological effects of using superior, advanced treated reclaimed water and determine parameters/constituents of concern. The pilot treatment facility's purpose is to determine the ecological effects of using reclaimed water to replace and augment freshwater flow to Biscayne Bay and to determine the level of treatment required to prevent degradation of estuarine and freshwater wetlands and Biscayne Bay. This

project is intended to test available technologies for application in the full-scale project and is currently in Band 3 of the MISP.

2.3.6 C-111 Spreader Canal

This project includes levees, canals, pumps, water control structures and a stormwater treatment area to be constructed, modified or removed in the Model Lands and Southern Glades (C-111 Basin) area of Miami-Dade County. This project enhances the C-111 Project design for the C-111 Spreader Canal with the construction of a stormwater treatment area, the enlarging of pump station S-332E and the extension of the canal under US Highway 1 and Card Sound Road in the Model Lands. The initial design of this project pumps water from the C-111 and the C-111E Canals into a stormwater treatment area prior to discharging to Southern Everglades and Model Lands. This project also calls for filling in the southern reach of the C-111 Canal and removal of structures S-18C and S-197. The final size, depth, location and configuration of this project will be determined through more detailed planning and design. The purpose of this project is to improve deliveries and enhance the connectivity and sheetflow in the Model Lands and Southern Glades areas, reduce wet season flows in C-111, and decrease potential flood risk in the lower south Miami-Dade County area. A PIR is currently underway and expected to be completed in Spring 2007.

2.3.7 Decompartmentalization of WCA 3 – Phase 1

This project was designed to restore natural landscape patterns and native flora and fauna in WCA 3 and ENP by removing barriers to sheetflow and by restoring natural hydroperiods, water depths and flow directions. This region is composed of ridge and slough habitats. The scope of this project includes all structural elements within and on the edge of WCA 3A and 3B that are capable of influencing sheetflow and ecological restoration of the ridge and slough landscapes of the Everglades. This project was included in the initial authorization for two reasons: 1) to provide immediate opportunities for enhanced sheetflow within WCA 3 and ENP and 2) to integrate with ongoing modifications that are being made in the plan formulation, detailed design and construction of the MWD to ENP project.

MWD will address restoring the natural hydrologic flows to ENP up to predetermined quantities and the Decompartmentalization project will provide additional opportunities for sheetflow, connectivity and hydroperiod restoration for greater quantities of water. The project team is currently preparing a PMP for Decompartmentalization and they are analyzing the feasibility of developing a physical model. Additional information should be available in July 2006.

2.3.8 Seepage Management Pilot Project

The pilot project is necessary to determine the appropriate technology to control seepage and the appropriate amount of wet season groundwater flow to return to minimize potential impacts to Miami-Dade County's West Wellfield and freshwater flows to Biscayne Bay.

The Jacksonville District is proposing to further study a seepage management feature located along a portion of the L-30 levee north of U.S. Highway 41 in Miami-Dade County, Florida that would allow testing of uncertainties relating to the constructability of a seepage barrier at a predetermined length and depth. In addition, a seepage management feature along the L-30 levee would help reduce seepage lost from Water Conservation Area 3B which in turn will reduce water flowing farther south into the L-30/L-31N system. A seepage management feature located along L-31N would reduce some seepage, but the L-31N site is located within an area that may be modified under the CERP, which could render it less useful for long term affects.

2.3.9 C-4 Emergency Impoundment Flood Mitigation Project

Due to the significant damage caused by the October 1999 and 2000 storm events, the Florida Department of Community Affairs (FDCA) contracted with PBS&J to support FDCA in the recovery and mitigation efforts. Because of the priority of the recommended improvements in the C-4 Basin, PBS&J was requested to provide professional services to optimize the performance of proposed SFWMD and municipal improvements, and to evaluate the impacts to current flood protection of surrounding areas. The Draft C-4 Report is complete and comments are currently being incorporated by SFWMD.

3.0 PROJECT SCOPE

3.1 Project Goals and Objectives

The primary purpose of the CERP is the restoration of South Florida's ecosystem. ENP Seepage Management encompasses three of the more than 68 components that were formulated together to meet the objectives of the CERP.

In general the goals of this project are:

- Improve the water deliveries to North East Shark River Slough;
- Restore wetland hydropatterns in the ENP by reducing levee and groundwater seepage and increasing sheetflow; and
- Recharge groundwater and reduce seepage from the ENP buffer areas by increasing water table elevations east of Krome.
- Preservation of wetland areas east of Everglades National Park to buffer existing flood prone developed areas.

In compliance with the National Environmental Policy Act (NEPA), a notice of intent to prepare an EIS will be issued, and subsequent necessary meetings will be held.

3.2 Description of CERP Components

3.2.1 Bird Drive Recharge Area (U)

This feature includes pumps, water control structures, canals, an above-ground recharge area with a total storage capacity of approximately 11,500 acre-feet western Miami-Dade County. The initial design of the recharge feature assumed 2,877 acres with water level fluctuating up to 4 feet above grade. Final design will seek to enhance and maintain the continued viability of wetlands within the Bird Drive basin. The final size, depth and configuration of these facilities will be determined through more detailed planning and design.

The purpose of the feature is to reduce seepage from the ENP and adjacent areas by increasing water table elevations east of Krome Avenue, which would have the additional benefit of recharging groundwater. The facility may also provide C-4 flood peak attenuation and water supply deliveries to the South Dade Conveyance System and Northeast Shark River Slough.

3.2.2 L-31N Improvements for Seepage Management and S-356 Structures (V and FF)

This feature includes relocating and enhancing L-31N, groundwater wells, and sheetflow delivery system adjacent to ENP located in Miami-Dade County. More

detailed planning, design and pilot studies will be conducted to determine the appropriate technology to control seepage from ENP. These studies and tests will also determine the appropriate amount of wet season groundwater flow control that will minimize potential impacts to Miami-Dade County's West Wellfield and freshwater flows to Biscayne Bay.

The primary purpose of this feature is to improve water deliveries to Northeast Shark River Slough and restore wetland hydropatterns in ENP by reducing levee and groundwater seepage and increasing sheetflow.

This feature reduces levee seepage flows across L-31N adjacent to ENP via a levee cutoff wall. Groundwater flows during the wet season are captured by groundwater wells adjacent to L-31N and pumped to ENP. Water from upstream natural areas will be diverted into a buffer area adjacent to ENP where sheetflow will be reestablished. Further, this feature includes relocation of the Modified Water Deliveries structure S-356 to provide more effective water deliveries to ENP. New discharges to ENP will be designed to meet applicable water quality criteria.

3.3 Project Constraints and Assumptions

The Western Bird Drive area is characterized as a high quality, short hydroperiod, muhly grass marsh with varying levels of invasive exotic plant infestation. Bird Drive was originally considered for use as a hydrologic buffer area and possible storage area due to its location. After further consideration, the area was found to be generally comprised of very high quality wetlands that would act as an important buffer area between any seepage management area and the already low lying, flood prone development to the east. The area was found to be very transmissive and, therefore, could be better used as a recharge area. In the hydrologic model simulations, when the reuse water was stacked in Bird Drive it resulted in increased flows to Shark River Slough. However, because reuse is a costly alternative, the reuse projects have been moved to a later band in the CERP Master Implementation Sequencing Plan (MISP). If stacking water in the Bird Drive component is to be considered, the project will have to simultaneously maintain existing levels of flood protection, maintain existing water levels for the Miami Dade well-field and provide enhanced flows to ENP.

4.0 SUMMARY OF AGENCY RESPONSIBILITIES

TABLE 4-1: WORK DISTRIBUTION BY TOPIC

Work Topic	Responsible Agency
Project Implementation Report (PIR)	USACE
Plans & Specs	USACE
Real Estate	USACE/SFWMD
Construction	USACE/SFWMD
Project Implementation Monitoring (PIM)	USACE/SFWMD

5.0 PROJECT CHANGES

5.1 List of PMP Updates and Revisions

This section and Appendix K are reserved to document future updates and revisions to this PMP.

5.2 Changes to Project Schedule and Cost

5.2.1 Changes to Project Schedule

TABLE 5-1: PROJECT IMPLEMENTATION REPORT MILESTONES

Activity	Schedule Completion Date
Initiate Project Implementation Phase	November 2005
Preliminary Screening of Alternatives	June 2006
Final Screening of Alternatives	July 2006
Feasibility Scoping Meeting (FSM)	October 2006
Alternative Formulation Briefing (AFB)	August 2007
Selected Alternative Plan	August 2007
Draft PIR/NEPA Complete	September 2008
Public Review of Draft PIR/NEPA	October 2008 - December 2008
Final PIR/NEPA Complete	April 2009
DE Signature	April 2009

5.2.2 Changes in Project Cost Estimates

TABLE 5-2: TOTAL PROJECT COST SUMMARY

	*Baseline	**Current Approved
Project Management		\$823,382
PMP Development		\$116,350
PIR	\$5,567,000	\$3,914,530
Water Reservations		\$46,800
Real Estate Acquisition	\$166,329,000	\$166,344,000
Design Document Report	\$7,581,000	
Plans & Specifications	\$1,452,000	\$9,125,800
PCA		\$7,200
Construction	\$172,576,000	\$172,616,200
PIM		\$20,000
Total	\$353,505,000	\$353,014,262

* Yellow Book inflated to 2006 dollars

** PMP 2005 budget estimate (Real Estate costs in 1999 dollars).

TABLE 5-3: TOTAL PROJECT COST SUMMARY ESTIMATE

Description	Total Cost	SAJ		SFWMD	
		In House	AE	In House	AE
Project Management	\$823,382	\$822,892	\$0	\$490	\$0
Initial PMP	\$116,350	\$109,000	\$0	\$7,350	\$0
Plan Formulation	\$2,190,067	\$1,596,867	\$386,000	\$207,200	\$0
NEPA Compliance	\$278,700	\$108,000	\$150,000	\$20,700	\$0
USFWS Coordination	\$369,720	\$369,720	\$0	\$0	\$0
Socio-Economic Analysis Appendix	\$14,000	\$14,000	\$0	\$0	\$0
Engineering and Design Appendix	\$587,216	\$437,216	\$120,000	\$30,000	\$0
Real Estate Analysis Appendix	\$244,995	\$234,920	\$0	\$10,075	\$0
Project Monitoring Plan	\$68,000	\$65,000	\$0	\$3,000	\$0
PIR Approval	\$161,832	\$141,132	\$0	\$20,700	\$0
Water Reservations	\$46,800	\$0	\$0	\$46,800	\$0
Plans and Specifications	\$9,125,800	\$9,068,100	\$24,500	\$33,200	\$0
PCA	\$7,200	\$0	\$0	\$7,200	\$0
Real Estate	\$166,344,000	\$0	\$0	\$166,344,000	\$0
Construction	\$172,616,200	\$172,576,000	\$0	\$40,200	\$0
PIM	\$20,000	\$10,000	\$0	\$10,000	\$0
BASELINE	\$353,014,262	\$185,552,847	\$680,500	\$166,780,915	\$0

6.0 FINANCIAL MANAGEMENT

6.1 Project Cost Estimates

A planning level cost estimate for this project is provided in Appendix E. The cost of the PIR phase of this project was estimated by the Project Team based on the PIR scope of work and work breakdown structure with appropriate resource costs applied to the activities. The costs of other major project deliverables were based on the estimates included in CERP. At the end of the PIR, these estimates will be updated.

A Total Project Cost Summary is provided in Appendix E, Tab A. A Fully Funded Cost Estimate will be developed towards the end of the PIR and will be included as Appendix E, Tab B.

6.2 Project Annual Budget

The summary of the project budget for the PIR and monitoring costs is included in Appendix E.

6.3 Cost Listing by Organization

The costs for each organizational unit participating in this project are described in detail in Appendix E, Tab C.

7.0 FUNCTIONAL AREA PLANS

For each major functional area, a plan has been developed to provide initial product identification, explain the need for the products and sub-products that will be developed in the functional area, identify inter- and intra-project dependencies, define the rationale for providing these products, and provide written documentation of functional area product development. The detailed Functional Area Plans, which is a report listing activities by agency, organizational unit and resource, is included in Appendix F, Tab A.

If there is a common process and/or procedure to be followed by all project teams for accomplishing an activity (e.g., Plan Formulation, Environmental and Economic Equity), this process is described in a separate reference such as the Master Program Management Plan (MPMP) (August 2001) or CERP Guidance Manual and is indicated herein. The project team will complete the activity in accordance with the specified guidance. This section also includes discussion of any special circumstances or assumptions relevant to the project.

Following is a list of typical functional areas and specified guidance:

Permitting Requirements

The CERP Guidance Memorandum (CGM) No. 010.00: *Interim Permitting Requirements Language* in PMP's establishes standard interim language to be used in development of PMPs concerning permitting requirements. The following language is required by the CGM:

"Currently, the application and timing of permits and other authorizations that may be required from the State of Florida for permits for CERP are being negotiated and discussed between the Florida Department of Environmental Protection, the South Florida Water Management District, and the U.S. Army Corps of Engineers. When these issues are resolved, the permitting and other authorization requirements in this Project Management Plan will be modified to conform to these conclusions."

Project Management

Engineer Regulation No. ER 5-1-11, "U.S. Army Corps of Engineers Business Process," establishes philosophy, policy and guidelines to accomplish all work performed by the USACE.

Planning

The USACE Planning Manual (November 1996) (IWR Report 96-R-21) provides the principles to ensure proper and consistent planning by Federal agencies in the formulation and evaluation of water and related land resources implementation studies.

Planning Guidance Notebook (ER 1105-2-100, 22 April 2000) addresses all Water Resource Programs and implementation guidance.

Other Functional Areas

Engineering and Design, Construction, Environmental, Socio-Economic and Environmental Justice, Real Estate, and other functional areas are described in the MPMP. Public Outreach and RECOVER are included in the MPMP, as well as the Public Outreach Management Plan (August 2001) and the RECOVER Project Management Plan (May 2001). The public outreach and involvement strategy for this project is outlined in Appendix I. The MPMP and CGM 014.00: *Independent Technical Review*, provide guidance for the Independent Technical Review process.

8.0 UNIQUE FACTORS

The following unique factors and potential challenges have been identified, thus far, for this project:

- Preventing a significant amount of groundwater flow to Biscayne Bay, the western portion of Miami-Dade County and the wellfields could potentially impact the system.
- Be mindful that the existing level of flood protection and groundwater recharge needs to be evaluated.
- There are potential challenges associated with real estate in the Bird Drive Recharge area.
- Be cognizant of the State's Water Quality Standards, the Everglades Forever Act and the Consent Decree and their application to this project.
- There is a potential to "phase" the Everglades National Park Seepage Management project due to the size of the project area.
- Land acquisition costs for 7,943 acres are estimated as \$166,329,000 (1999 dollars).
- The Seepage Management Pilot Project was planned in the CERP as a predecessor to the ENP Seepage Management Project. The fact that both projects are being conducted simultaneously could potentially be a challenge for the project team. The Master Implementation Sequencing Plan shows the Seepage Management Pilot Project construction occurring in Band 1 and ENP Seepage Management construction in Bands 2 and 3, which may call for a phasing approach of the project.

APPENDIX A: LIST OF PROJECT TEAM MEMBERS

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TABLE A-1: LIST OF PROJECT TEAM MEMBERS

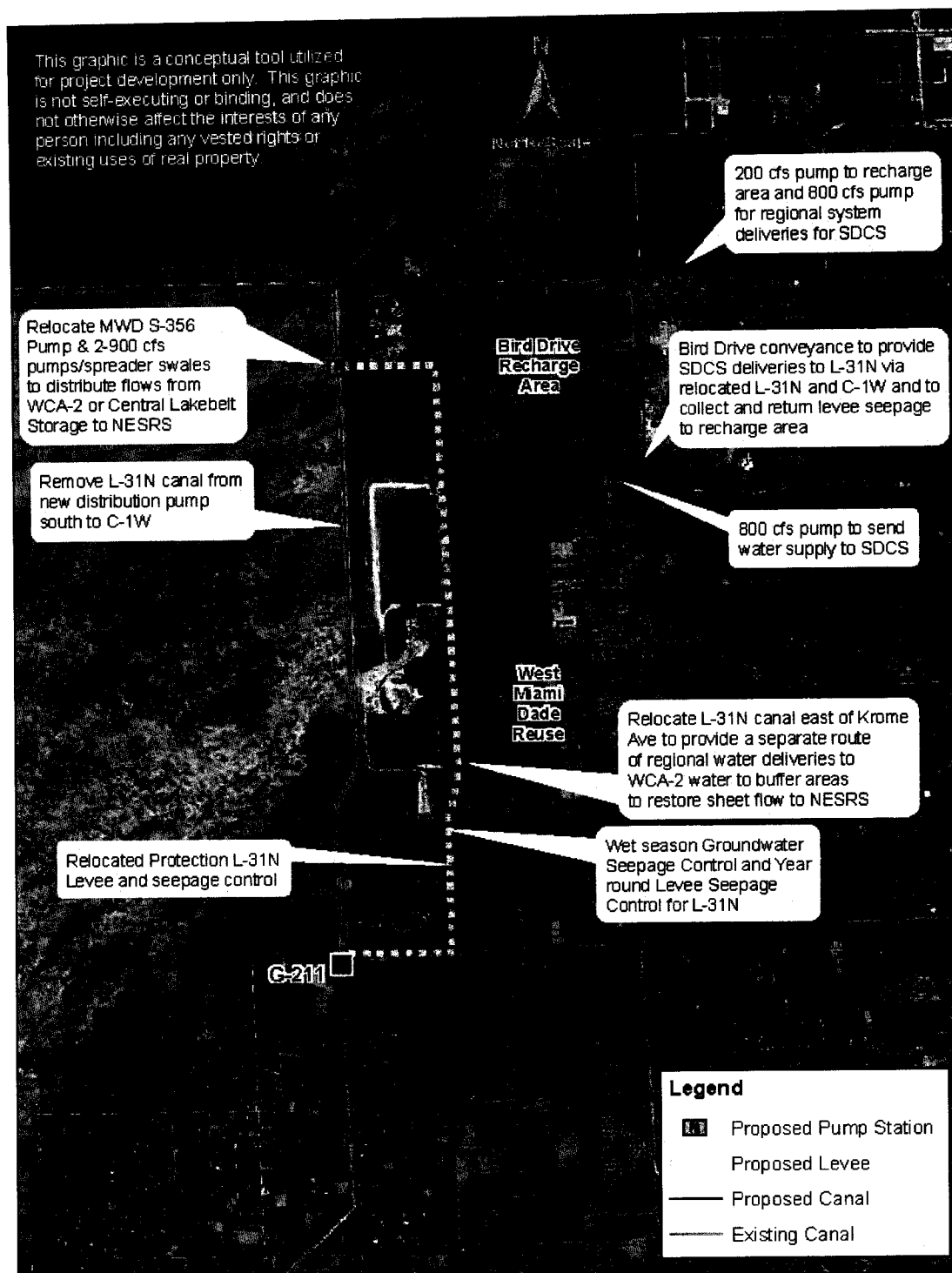
NAME	E-MAIL	PHONE
US ARMY CORPS OF ENGINEERS, JACKSONVILLE DISTRICT		
Alison Ali	Alison.C.Ali@saj02.usace.army.mil	(904) 232-3135
Antonio Ayuso	Antonio.D.Ayuso@saj02.usace.army.mil	(904) 232-2118
Ernest Clarke	Ernest.Clarke@saj02.usace.army.mil	(904) 232-1199
Jacob Davis	Jacob.R.Davis@saj02.usace.army.mil	(904) 232-1898
Murika Davis	Murika.Davis@saj02.usace.army.mil	(904) 232-1604
Robert Evans	Robert.A.Evans@saj02.usace.army.mil	(904) 232-2102
Martin Falmlen	Martin.R.Falmlen@saj02.usace.army.mil	(904) 232-2205
Christopher Graham	Christopher.A.Graham@saj02.usace.army.mil	(904) 232-3376
Lisa Gued	Lisa.R.Gued@saj02.usace.army.mil	(904) 232-1793
Stephanie Jenkins	Stephanie.L.Jenkins@saj02.usace.army.mil	(904) 232-1612
Fred McAuley	Fred.M.McAuley@saj02.usace.army.mil	(904) 232-1903
Jessica McCaffrey	Jessica.C.McCaffrey@saj02.usace.army.mil	(904) 232-2254
Donald Nelson	Donald.G.Nelson@saj02.usace.army.mil	(904) 232-3874
Jerrell Pennington	Jerrell.T.Pennington@saj02.usace.army.mil	(904) 232-3755
Debbie Peterson	Debbie.R.Peterson@saj02.usace.army.mil	(904) 614-5064
David Pugh	David.W.Pugh@saj02.usace.army.mil	(904) 232-1361
Vasu Rao	Vasu.D.Rao@saj02.usace.army.mil	(904) 232-2409
Salvador Resurreccion	Salvador.Resurreccion@saj02.usace.army.mil	(904) 232-1850
Erica Robbins	Erica.A.Robbins@saj02.usace.army.mil	(561) 683-1577
Stacey Roth	Stacey.L.Roth@saj02.usace.army.mil	(904) 232-1055
John Szep	John.G.Szep@saj02.usace.army.mil	(904) 232-1884
Tiphany Taylor	Tiphany.C.Taylor@saj02.usace.army.mil	(904) 232-1548
Gregory Whittle	Gregory.Whittle@saj02.usace.army.mil	(904) 232-3729
SOUTH FLORIDA WATER MANAGEMENT DISTRICT		
Bridget Appow	bappow@sfwmd.gov	(561) 682-6004
Cynthia Gefvert	cgefvert@sfwmd.gov	(561) 682-2610
Steve Krupa	skrupa@sfwmd.gov	(561) 682-6923
Maura Merkal	mmerkall@sfwmd.gov	(561) 682-6179
Laura Reilly	lreilly@sfwmd.gov	(561) 682-6875
Larry Robinson	lrobbins@sfwmd.gov	(305) 513-3420 x 7102
Charles Scott	cscott@sfwmd.gov	(305) 377-7274 x 7280
Sherry Scott	sscott@sfwmd.gov	(561) 682-6803
Wanda Simpson	wsimpso@sfwmd.gov	(561) 682-6445
Scott Thorp	sthorp@sfwmd.gov	(305) 242-5933 x 7001
Shi Xue	sxue@sfwmd.gov	(561) 682-2333

NAME	AGENCY	E-MAIL	PHONE
GOVERNMENT AGENCIES			
Christiana Aguirre	IMC	caguirre@sfwmd.gov	(561) 682-2227
Sarah Bellmund	BNP	sarah_bellmund@nps.gov	(305) 230-114 x 3092
Marjorie Bixby	FDOT	Marjorie.bixby@dep.state.fl.us	(305) 470-5221
Kevin Cunningham	USGS	kcunning@usgs.gov	(954) 377-5913
Richard Curry	BNP	Richard_curry@nps.gov	(305) 230-1144 x 3006
Matthew Davis	Miami-Dade DERM	DavisM@miamidade.gov	(305) 372-6594
Richard Fike	USFWS	Richard_Fike@fws.gov	(772) 562-3909 x 262
Donna Fries	Miami-Dade WASD	friesd@miamidade.gov	(786) 552-8972
Inger Hanson	FDEP	Inger.hansen@dep.state.fl.us	(561) 681-6709
Armando Jo Chao	Miami-Dade DERM	joa@miamidade.gov	(305) 372-6950
Marcia Levinson	Miami-Dade DERM	levinm@miamidade.gov	(305) 372-6691
Sherry Mitchell	ENP	sherry_mitchell@nps.gov	(305) 224-4286
Clint Oakley	Miami-Dade WASD	oaklec@miamidade.gov	(786) 552-8199
Lucia Perez	Miami-Dade WASD	lperez@miamidade.gov	(305) 372-6645
Ingrid Rivera	ENP	Ingrid_Rivera@nps.gov	(305) 224-4209
Virginia Walsh	Miami-Dade WASD	walshv@miamidade.gov	(786) 552-8266
Shereen Yee-Fong	FDOT	shereen.yee-fong@dot.state.fl.us	(561) 682-2227

APPENDIX B: PROJECT MAP

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FIGURE B-1: PROJECT MAP



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FIGURE B-2: PARCELS WITHIN THE BIRD DRIVE AREA



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APPENDIX C: WORK BREAKDOWN STRUCTURE

TAB A – Activity Listing by WBS

TAB B – Activity Definitions, Constraints and Assumptions

TAB C – Activity ID/WBS Cross Reference

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TAB A – Activity Listing by WBS

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Activity ID	Activity Name	Remaining Duration	Total Float	Start	Finish	Primary Resource	Budgeted Total Cost
129011 CERP Everglades National Park Seepage Management		2632.0d	-838.0d	01-Jun-05 A	30-Sep-06		\$ 823,382.01
129011.1.1 PM		2143.0d	-149.0d	01-Jun-05 A	15-May-14		\$ 823,382.01
27-H1015	GP Truck FY05	0.0d		01-Jun-05 A	30-Sep-05 A		\$ 80.00
27-H1005	Travel CO FY05	0.0d		01-Jun-05 A	30-Sep-05 A		\$ 600.00
27-H1105	Travel DP FY05	0.0d		01-Jun-05 A	30-Sep-05 A	DP-E.K...	\$ 600.01
27-H3280	Travel EN FY05	0.0d		01-Jun-05 A	30-Sep-05 A	EN.K3L...	\$ 4,400.00
27-H3300	Travel PD FY05	0.0d		01-Jun-05 A	30-Sep-05 A	PD.K3K...	\$ 3,600.00
27-H1305	Printing FY05	0.0d		01-Jul-05 A	30-Sep-05 A		\$ 500.00
27-H1205	DP Project Management FY06	230.0d	1764.0d	03-Oct-05 A	29-Sep-06	DP-E.K...	\$ 163,000.00
27-H1315	Printing FY06	230.0d	1081.0d	03-Oct-05 A	29-Sep-06		\$ 1,000.00
27-H3330	SFWMD Travel and Management FY06	230.0d	1081.0d	03-Oct-05 A	29-Sep-06	NAMED...	\$ 490.00
27-H2965	Printing FY06 and Beyond	250.0d	1061.0d	03-Oct-05 A	30-Oct-06		\$ 1,200.00
27-H3290	EN Travel FY06	230.0d	853.0d	01-Nov-05*	29-Sep-06	EN.K3L...	\$ 15,400.00
27-H3310	Travel PD FY06	230.0d	1081.0d	01-Nov-05*	29-Sep-06	PD.K3K...	\$ 8,000.00
27-H2935	GP Truck FY06	230.0d	175.0d	01-Nov-05*	29-Sep-06		\$ 512.00
27-H2975	Travel DP FY06	230.0d	1764.0d	01-Nov-05*	29-Sep-06		\$ 10,000.00
27-H2995	Travel CO FY06 and Beyond	230.0d	1081.0d	01-Nov-05*	29-Sep-06		\$ 14,400.00
27-H1215	DP Project Management FY07 and Beyond	2143.0d	-149.0d	01-Nov-05*	15-May-14	DP-E.K...	\$ 520,200.00
29-H2976	Travel DP FY07 and Beyond	1913.0d	-580.0d	01-Nov-05	14-Jun-13		\$ 30,000.00
27-H3005	RE Travel FY06 and Beyond	214.0d	1081.0d	25-Nov-05*	29-Sep-06	EN.K3L...	\$ 2,400.00
27-H3015	OC Travel FY06 and Beyond	214.0d	1081.0d	25-Nov-05*	29-Sep-06	EN.K3L...	\$ 1,500.00
27-H2945	GP Truck FY07 and Beyond	250.0d	175.0d	02-Oct-06	28-Sep-07		\$ 500.00
27-H2955	EN Travel FY07 and Beyond	250.0d	853.0d	02-Oct-06*	28-Sep-07	EN.K3L...	\$ 39,000.00
27-H2985	Travel PD FY07 and Beyond	250.0d	831.0d	02-Oct-06*	28-Sep-07	PD.K3K...	\$ 6,000.00
129011.1.2 Initial PMP		15.0d	-808.0d	23-Jun-05 A	22-Nov-05		\$ 116,350.02
27-1020	PMP Initiated	0.0d			23-Jun-05 A	DP.K3H...	\$ 0.00
27-1010	Initial PMP Coordination Meeting	0.0d		23-Jun-05 A	23-Jun-05 A	DP.K3H...	\$ 5,600.00
27-1040	Hold PDT Kick-Off Meeting	0.0d		24-Jun-05 A	24-Jun-05 A	DP.K3H...	\$ 4,300.00
27-1060	Prepare Draft PMP	0.0d		01-Jul-05 A	19-Aug-05 A	DP.K3H...	\$ 64,673.34
27-H1065	PMP Draft Completed	0.0d			19-Aug-05 A	DP.K3H...	\$ 0.00
27-1080	Internal Review of Draft PMP	0.0d		22-Aug-05 A	26-Aug-05 A	DP.K3H...	\$ 29,576.66
27-1100	Final Draft PMP Incorporating Internal Review	0.0d		29-Aug-05 A	02-Sep-05 A	DP.K3H...	\$ 4,000.01

Activity ID	Activity Name	Remaining Duration	Total Float	Start	Finish	Primary Resource	Budgeted Total Cost
27-1110	Post on Documentum for Agency Review	0.0d		06-Sep-05 A	12-Sep-05 A	DP-E.K...	\$ 0.00
27-1140	Final PMP Incorporate Agency Comments	0.0d		13-Sep-05 A	19-Sep-05 A	EN-GE....	\$ 4,200.01
27-1150	Distribute Draft PMP for PRB and Non Federal Sponsor Senior ...	0.0d		20-Sep-05 A	25-Oct-05 A	DP.K3H...	\$ 1,400.00
27-1230	Final Approval by Non Federal Sponsor	10.0d	-808.0d	26-Oct-05 A	15-Nov-05	NAMED...	\$ 2,600.00
27-1155	Final Approval by Branch & Division Chiefs	2.0d	-800.0d	26-Oct-05 A	02-Nov-05	DP.K3H...	\$ 0.00
27-1210	PMP Approved by Local Sponsor	0.0d	-808.0d		15-Nov-05		\$ 0.00
27-1240	Approval by Corps Deputy District Engineer	3.0d	-808.0d	16-Nov-05	18-Nov-05	DP.K3H...	\$ 0.00
27-1250	PMP DDE(PM) Signature	0.0d	-808.0d		18-Nov-05	DP.K3H...	\$ 0.00
27-1260	Work-in-Kind Letter from Corps Engineer	2.0d	-808.0d	21-Nov-05	22-Nov-05	DP.K3H...	\$ 0.00
27-1270	Work-in-Kind Letter Signed by District Engineer	0.0d	-808.0d		22-Nov-05	DP.K3H...	\$ 0.00
129011.1.3 Design PMP Revision		0.0d	0.0d				\$ 0.00
129011.1.4 Construction PMP Revision		0.0d	0.0d				\$ 0.00
27-H3090	Chief's Report	0.0d	-640.0d		12-Aug-09		\$ 0.00
27-H3080	Chief's Report Submitted to ASA (CW)	15.0d	-640.0d	13-Aug-09	02-Sep-09		\$ 0.00
129011.2.1 PM		0.0d	0.0d				\$ 0.00
129011.2.2 Plan Formulation		783.5d	1196.5d	22-Nov-05	07-Jan-09		\$ 2,190,067.36
129011.2.2.1 Goals and Objectives		16.0d	-808.0d	22-Nov-05	14-Dec-05		\$ 80,598.36
27-H1355	PIR Kick-Off Meeting	1.0d	-795.0d	22-Nov-05	22-Nov-05	DP.K3H...	\$ 0.00
27-H100	Initiate PIR	0.0d	-795.0d		22-Nov-05	DP.K3H...	\$ 0.00
27-H1350	Initiate PIR Preparation	1.0d	-795.0d	23-Nov-05	23-Nov-05	DP.K3H...	\$ 0.00
27-H1360	Identify Problems, Opportunities, Objectives & Constraints	15.0d	-808.0d	23-Nov-05	14-Dec-05	PD-ES....	\$ 80,598.36
129011.2.2.2 Existing and Future Conditions		327.0d	1652.0d	23-Nov-05	15-Mar-07		\$ 730,830.36
27-H1540	RECOVER Assistance with Development of Existing & Future W...	44.0d	-659.0d	23-Nov-05	27-Jan-06	DR-E.K...	\$ 22,000.00
27-H3160	A-E Contract Procurement (Inventory for Geotech)	40.0d	-698.0d	23-Nov-05*	23-Jan-06	CT-C.K...	\$ 8,500.00
27-H2990	A-E Contract Procurement (Survey)	22.0d	1890.0d	25-Nov-05	27-Dec-05	CT-C.K...	\$ 7,500.00
27-H1390	Inventory and Forecast Ecological & Cultural Resources	43.0d	-737.0d	25-Nov-05	27-Jan-06	PD-ES....	\$ 3,000.00
27-H1400	Inventory and Forecast Economic Resources	43.0d	-795.0d	25-Nov-05	27-Jan-06	NAMED...	\$ 7,200.00
27-H1430	Identify Performance Measures	43.0d	-808.0d	15-Dec-05	16-Feb-06	NAMED...	\$ 39,400.00
27-H3000	A-E Contract Procurement for Water Quality / Ecologic Data Coll...	40.0d	-737.0d	16-Dec-05	14-Feb-06	CT-C.K...	\$ 167,000.00
27-H3010	A-E Contract Procurement for Economic Data Collection	40.0d	-686.0d	16-Dec-05	14-Feb-06	CT-C.K...	\$ 0.00
27-H2980	Survey Data Collection for Models	66.0d	1890.0d	28-Dec-05	03-Apr-06	EN-D A...	\$ 142,300.00
27-H1435	RECOVER Review of Project Performance Measures	60.0d	-808.0d	30-Dec-05	28-Mar-06	DR-E.K...	\$ 6,800.00
27-H1380	Inventory and Forecast Hydrologic & Geologic Resources	43.0d	-698.0d	24-Jan-06	24-Mar-06	EN-HH....	\$ 24,021.68

Activity ID	Activity Name	Remaining Duration	Total Float	Start	Finish	Primary Resource	Budgeted Total Cost
27-H1530	Compile Existing and Future Without Conditions	33.0d	-698.0d	07-Feb-06	24-Mar-06	EN-HH....	\$ 97,446.40
27-H2940	A-E Contract Procurement (Geotech)	40.0d	1818.0d	14-Feb-06	11-Apr-06	CT-C.K...	\$ 7,000.00
27-H1460	Water Quality / Ecologic Data Collection	66.0d	-737.0d	15-Feb-06	18-May-06	PD-ES....	\$ 104,500.00
27-H1470	Economic Data Collection	66.0d	-686.0d	15-Feb-06	18-May-06	PD-D.K...	\$ 9,000.00
27-H1531	GIS Support to Compile Existing and Future Without Conditions	10.0d	-698.0d	13-Mar-06	24-Mar-06	EN-HH....	\$ 6,382.40
27-P220	Project Performance Measures Complete	0.0d	-808.0d		28-Mar-06	PD-R.K...	\$ 0.00
27-H1490	Identify Simulation Models (Ecologic)	66.0d	-666.0d	18-Apr-06	20-Jul-06	PD-ES....	\$ 6,800.00
27-H1475	Wet Season Test	5.0d	-745.0d	01-Jun-06*	07-Jun-06	PD-ES....	\$ 5,917.00
27-H1495	Evaluate Old and New Data Together	1.0d	-745.0d	08-Jun-06	08-Jun-06	PD-ES....	\$ 2,308.00
27-H1510	Simulation Models (Economic)	129.0d	-806.0d	07-Aug-06	12-Feb-07	PD-D.K...	\$ 6,000.00
27-H1520	Model Existing & Without Plan Conditions	86.0d	-808.0d	08-Nov-06	15-Mar-07	EN-HI.K...	\$ 57,754.88
129011.2.2.3 Alternative Plan Formulation		258.0d	-769.0d	29-Mar-06	06-Apr-07		\$ 404,061.52
27-H1560	Identification of Management Measures	22.0d	-704.0d	29-Mar-06	27-Apr-06	PD-R.K...	\$ 16,100.00
27-H1572	Define Components & Create Array of Alternatives	43.0d	-697.0d	28-Apr-06	28-Jun-06	PD-R.K...	\$ 32,100.00
27-H2720	Preliminary Screening of Conceptual Alternatives	30.0d	-704.0d	26-May-06	10-Jul-06	EN-GG....	\$ 32,300.00
27-L215	Preliminary Screening of Alternatives Complete	0.0d	-704.0d		10-Jul-06	PD-R.K...	\$ 0.00
27-H2760	Determine Final Alternative Array	22.0d	-704.0d	11-Jul-06	09-Aug-06	PD-R.K...	\$ 34,023.00
27-L265	Final Alternative Array Complete	0.0d	-683.0d		09-Aug-06	PD-R.K...	\$ 0.00
27-H2910	Prepare FSM Package	15.0d	-683.0d	10-Aug-06	30-Aug-06	PD-R.K...	\$ 74,419.00
27-H3030	VE FSM Package	15.0d	-682.0d	31-Aug-06	21-Sep-06	EN-T.K...	\$ 65,200.00
27-H1580	ITR of FSM Package	15.0d	-683.0d	31-Aug-06	21-Sep-06	PD-P.K...	\$ 39,000.00
27-H1620	ITR Meeting with PDT to prepare for FSM	1.0d	-683.0d	22-Sep-06	22-Sep-06	PD-R.K...	\$ 13,742.00
27-H1590	Submit FSM Documentation to HQ	2.0d	-683.0d	25-Sep-06	26-Sep-06	PD-R.K...	\$ 1,200.00
27-H2270	HQ Policy Review Comments to SAJ & SAD	22.0d	-683.0d	27-Sep-06	27-Oct-06	PD-R.K...	\$ 0.00
27-H2280	SAJ Response to HQ Policy Review Comments	6.0d	-683.0d	30-Oct-06	06-Nov-06	PD-R.K...	\$ 11,000.00
27-H1600	Feasibility Scoping Meeting	2.0d	-683.0d	07-Nov-06	08-Nov-06	PD-R.K...	\$ 19,320.08
27-L230	Feasibility Scoping Meeting (FSM)	0.0d	-683.0d		08-Nov-06	PD-R.K...	\$ 0.00
27-H1610	Receive FSM Guidance Memorandum	11.0d	-683.0d	09-Nov-06	27-Nov-06	PD-R.K...	\$ 1,000.00
27-H1660	Develop Planning Cost Estimates (Engineering, Construction, O...	86.0d	-788.0d	16-Nov-06	22-Mar-07	EN-C.K...	\$ 37,360.00
27-L235	FSM Guidance Memorandum Received	0.0d	-683.0d		27-Nov-06	PD-R.K...	\$ 0.00
27-H1570	Compare Existing Condition to Pre-CERP Baseline	10.0d	-808.0d	02-Mar-07	15-Mar-07	EN-HH....	\$ 26,097.44
27-H1710	Life Cycle Costing	11.0d	-769.0d	23-Mar-07	06-Apr-07	PD-R.K...	\$ 1,200.00
129011.2.2.4 Alternative Plan Evaluation		156.0d	-808.0d	08-Nov-06	22-Jun-07		\$ 131,813.92
27-H1685	Simulation of Existing and Without Plan Conditions and Alternati...	45.0d	-732.0d	08-Nov-06	16-Jan-07	PD-E.K...	\$ 8,320.00

Activity ID	Activity Name	Remaining Duration	Total Float	Start	Finish	Primary Resource	Budgeted Total Cost
27-H1650	Model & Evaluate Alternatives (compare with & without plan)	66.0d	-808.0d	24-Jan-07	26-Apr-07	PD-E.K...	\$ 120,493.92
27-H1690	System Wide Evaluation (RECOVER)	45.0d	-808.0d	20-Apr-07	22-Jun-07	DR-E.K...	\$ 3,000.00
27-L280	RECOVER Evaluation of Alternatives Complete	0.0d	-808.0d		22-Jun-07	DP-R.K...	\$ 0.00
129011.2.2.5 Alternative Plan Comparison		86.0d	-808.0d	25-May-07	26-Sep-07		\$ 216,816.88
27-H1700	Conduct Cost-Effectiveness & Incremental Cost Analysis	15.0d	-803.0d	25-May-07	15-Jun-07	EN-C.K...	\$ 15,500.00
27-H2920	Prepare AFB Package	30.0d	-808.0d	29-May-07	10-Jul-07	EN-GG....	\$ 44,584.08
27-H1770	ITR of AFB Package	15.0d	-793.0d	19-Jun-07	10-Jul-07	PD-P.K...	\$ 50,000.00
27-H1720	Compare Alternative Plans & Select Tentatively Selected Plan	11.0d	-808.0d	25-Jun-07	10-Jul-07	EN-GS....	\$ 64,953.00
27-H3040	VE of AFB Package	15.0d	-808.0d	11-Jul-07	31-Jul-07	EN-T.K...	\$ 4,400.00
27-H1800	Submit AFB Documentation to HQ and SFRTF	2.0d	-808.0d	01-Aug-07	02-Aug-07	PD-PN....	\$ 1,200.00
27-H2290	HQ Policy Review AFB Comments to SAJ & SAD	22.0d	-808.0d	03-Aug-07	04-Sep-07	PD-R.K...	\$ 0.00
27-H2300	SAJ Response to HQ Policy Review Comments	5.0d	-808.0d	05-Sep-07	11-Sep-07	PD-R.K...	\$ 15,831.72
27-H1810	AFB Meeting	1.0d	-808.0d	12-Sep-07	12-Sep-07	EN-GS....	\$ 14,884.08
27-H124	Alternative Formulation Briefing (AFB)	0.0d	-808.0d		12-Sep-07	PD-R.K...	\$ 0.00
27-H1820	AFB Guidance Memorandum	10.0d	-808.0d	13-Sep-07	26-Sep-07	PD-R.K...	\$ 2,000.00
27-H2160	Non Federal Sponsor Coordination	10.0d	-808.0d	13-Sep-07	26-Sep-07	PD-R.K...	\$ 3,464.00
27-H126	AFB Guidance Memorandum Received	0.0d	-808.0d		26-Sep-07	PD-R.K...	\$ 0.00
129011.2.2.6 Recommended Plan		374.5d	-798.5d	11-Jul-07	07-Jan-09		\$ 625,946.32
27-H1990	Develop Draft Scope of TSP Exploration Plan & Confirm with Sp...	10.0d	-708.0d	11-Jul-07	24-Jul-07	EN-D.K...	\$ 4,800.00
27-H2000	Develop TSP Site Survey/Geotech Scope	10.0d	-708.0d	25-Jul-07	07-Aug-07	EN-D.K...	\$ 7,000.00
27-H2070	Selected Alternative Plan (SAP)	32.0d	-808.0d	13-Aug-07	26-Sep-07	PD-R.K...	\$ 24,623.28
27-H2090	Perform SAP H&H Analysis	52.0d	-745.0d	13-Sep-07	28-Nov-07	EN-HI.K...	\$ 23,113.92
27-H2970	Obtain Real Estate Rights of Entry	40.0d	-743.0d	27-Sep-07	26-Nov-07	RE-A.K...	\$ 2,200.00
27-H2950	A-E Contract(s) Procurement (Survey & Geotech)	40.0d	-743.0d	27-Sep-07	26-Nov-07	CT-C.K...	\$ 15,500.00
27-H2100	Develop Draft Project Operating Manual	86.0d	-741.0d	12-Oct-07	15-Feb-08	EN-GS....	\$ 35,549.52
27-H2040	Perform SAP Geotech Analysis	66.0d	-743.0d	27-Nov-07	03-Mar-08	EN-GS....	\$ 20,600.00
27-H2010	Obtain SAP Geotechnical & Survey Data	66.0d	-743.0d	27-Nov-07	03-Mar-08	EN-D.K...	\$ 138,000.00
27-H2095	Next Added Increment Analysis	22.0d	-681.0d	29-Nov-07	31-Dec-07	PD-R.K...	\$ 41,805.52
27-H2030	Perform SAP Civil/Structural & M&E Analysis	65.0d	-743.0d	27-Dec-07	31-Mar-08	EN-D.K...	\$ 3,000.00
27-H2150	Prepare MCASES Cost Estimate	22.0d	-745.0d	03-Apr-08	02-May-08	EN-C.K...	\$ 51,300.00
27-H1330	Compile (Preliminary) Draft PIR/NEPA	22.0d	-745.0d	10-Apr-08	09-May-08	PD-R.K...	\$ 29,096.00
27-H2140	Develop Implementation Plan	11.0d	-745.0d	25-Apr-08	09-May-08	DP.K3H...	\$ 7,400.00
27-H1340	In-house Review of Draft PIR/NEPA	10.0d	-745.0d	12-May-08	23-May-08	PD-R.K...	\$ 15,569.68
27-H2710	RECOVER Review of Preliminary Draft PIR	10.0d	-745.0d	12-May-08	23-May-08	DR-E.K...	\$ 1,200.00

Activity ID	Activity Name	Remaining Duration	Total Float	Start	Finish	Primary Resource	Budgeted Total Cost
27-H1030	ITR on Draft PIR/NEPA Document	10.0d	-808.0d	11-Aug-08	22-Aug-08	PD-P.K...	\$ 50,000.00
27-H2330	Incorporate In-House, RECOVER & ITR Comments on Prelim D...	15.0d	-808.0d	25-Aug-08	15-Sep-08	PD-R.K...	\$ 20,163.28
27-H1020	Complete Draft PIR/NEPA Document for NEPA Review	7.0d	-808.0d	16-Sep-08	24-Sep-08	PD-R.K...	\$ 9,800.00
27-L290	Draft PIR/NEPA Report Complete	0.0d	-808.0d		24-Sep-08	PD-R.K...	\$ 0.00
27-H1050	Release (Print & Mail) Draft PIR/NEPA Doc	10.0d	-808.0d	25-Sep-08	08-Oct-08	PD-R.K...	\$ 0.00
27-H2260	Submit Documentation to HQ for Draft PIR/NEPA Review	2.0d	-798.5d	27-Oct-08	28-Oct-08	PD-R.K...	\$ 1,366.00
27-H2310	HQ Policy Review Draft PIR/NEPA Comments to SAJ & SAD	22.0d	-798.5d	29-Oct-08	01-Dec-08	PD-R.K...	\$ 0.00
27-H2320	SAJ Response to HQ Policy Review Comments	10.0d	-798.5d	02-Dec-08	15-Dec-08	PD-R.K...	\$ 27,469.68
27-H1000	In Progress Review	4.5d	-798.5d	16-Dec-08	22-Dec-08	PD-R.K...	\$ 13,296.00
27-H1010	Project Guidance Memorandum (IPR)	10.0d	-798.5d	22-Dec-08	07-Jan-09	PD-R.K...	\$ 3,000.00
27-H130	Complete PIR Review Conference	0.0d	-798.5d		22-Dec-08	PD-R.K...	\$ 0.00
27-H140	Project Guidance Memorandum (PGM) Received	0.0d	-798.5d		07-Jan-09	PD-R.K...	\$ 0.00
129011.2.2.6.1 Project Assurances Determinations		65.0d	-741.0d	19-Feb-08	19-May-08		\$ 80,093.44
27-H2110	Quantify Water Made Available	20.0d	-741.0d	19-Feb-08	17-Mar-08	EN-HH...	\$ 24,897.44
27-H2120	Savings Analysis	20.0d	-728.0d	19-Feb-08	17-Mar-08	PD-PN...	\$ 19,091.84
27-H2130	Identify Water to be Reserved	45.0d	-741.0d	18-Mar-08	19-May-08	PD-PN...	\$ 36,104.16
129011.2.3 NEPA Compliance		787.0d	524.0d	03-Oct-05 A	19-Dec-08		\$ 648,420.00
27-H1940	Conduct NEPA Scoping Activities	29.0d	-671.0d	25-Nov-05	06-Jan-06	PD-ES....	\$ 6,000.00
27-L200	Notice of Intent to Prepare NEPA Issued	0.0d	-579.0d		06-Jan-06	PD-E.K...	\$ 0.00
27-H2780	Preliminary Cultural Resource (SHPO) Consultation	35.0d	-579.0d	09-Jan-06	28-Feb-06	PD-E.K...	\$ 5,000.00
27-H1950	Hold NEPA Scoping Meeting	1.0d	-520.0d	09-Jan-06	09-Jan-06	PD-E.K...	\$ 12,600.00
27-H2785	Consultation (Native Americans)	35.0d	-579.0d	09-Jan-06	28-Feb-06	PD-E.K...	\$ 5,000.00
27-L205	NEPA Scoping Meeting	0.0d	-520.0d		09-Jan-06	PD-E.K...	\$ 0.00
27-H1730	Compile Comments/Issues/Concerns; Finalize Problems & Opp...	30.0d	-491.0d	10-Jan-06	22-Feb-06	PD-E.K...	\$ 7,600.00
27-H2790	Compile FSM submittals for Ecol., WQ. and CR	10.0d	-579.0d	01-Mar-06	14-Mar-06	PD-E.K...	\$ 18,000.00
27-H1750	Detailed Inventory Ecological, Water Quality	75.0d	-570.0d	01-Mar-06	14-Jun-06	PD-E.K...	\$ 26,000.00
27-H2250	Phase 1 Cultural Resource Surveys and Coordination	150.0d	-251.0d	01-Mar-06	29-Sep-06	PD-ES....	\$ 150,500.00
27-H2170	Phase 2 Cultural Resource Field Survey/Coordination	220.0d	-396.0d	15-Jun-06	01-May-07	PD-E.K...	\$ 0.00
27-H1655	Write NEPA Alternative Analysis	66.0d	-808.0d	24-Jan-07	26-Apr-07	PD-E.K...	\$ 5,000.00
27-H1665	Develop Environmental Effects/Benefits Evaluation Method	66.0d	-808.0d	24-Jan-07	26-Apr-07	PD-E.K...	\$ 5,000.00
27-H1960	Evaluation of Environmental Effects/Benefits & Compliance	20.0d	-803.0d	27-Apr-07	24-May-07	PD-E.K...	\$ 21,000.00
27-H2800	Document Environmental Law Compliance	45.0d	-657.0d	27-Sep-07	03-Dec-07	PD-E.K...	\$ 2,000.00
27-H2810	Prepare Env Effects, Cum Effects, Tradeoff Discussion for SAP	20.0d	-674.0d	29-Nov-07	27-Dec-07	PD-E.K...	\$ 10,000.00
27-H2820	Incorporate all NEPA into PIR and Review for consistency	20.0d	-672.0d	28-Dec-07	28-Jan-08	PD-E.K...	\$ 5,000.00

Activity ID	Activity Name	Remaining Duration	Total Float	Start	Finish	Primary Resource	Budgeted Total Cost
129011.2.3.1 USFWS Coordination		787.0d	524.0d	03-Oct-05 A	19-Dec-08		\$ 369,720.00
27-H3350	USFWS Coordination Act Transfer Funds FY06	230.0d	581.0d	03-Oct-05 A	29-Sep-06		\$ 152,153.00
27-H1680	Receive USFWS PAL	22.0d	-671.0d	25-Nov-05	27-Dec-05	PD-E.K...	\$ 0.00
27-H2770	Preliminary ESA Consultation	35.0d	-579.0d	09-Jan-06	28-Feb-06	PD-E.K...	\$ 500.00
27-H2775	ESA Consultation	120.0d	-458.0d	01-Mar-06	17-Aug-06	PD-E.K...	\$ 5,000.00
27-H2795	Biological Assessment	15.0d	-458.0d	18-Aug-06	08-Sep-06	PD-E.K...	\$ 5,000.00
27-H3355	USFWS Coordination Act Transfer Funds FY07	250.0d	581.0d	02-Oct-06	28-Sep-07		\$ 113,028.00
27-H3260	USFWS Formulates Biological Opinion	66.0d	-635.0d	25-May-07	28-Aug-07		\$ 0.00
27-H3270	USFWS Delivers Biological Opinion	33.0d	-635.0d	29-Aug-07	16-Oct-07		\$ 0.00
27-H3340	USFWS Coordination Act Transfer Funds FY08	250.0d	581.0d	01-Oct-07	26-Sep-08		\$ 94,039.00
27-L339	Receive Biological Opinion	0.0d	-635.0d		16-Oct-07		\$ 0.00
27-H1970	Draft CAR received to be used in draft NEPA	10.0d	-635.0d	17-Oct-07	30-Oct-07	PD-E.K...	\$ 0.00
27-L285	Receive Draft FWCA Report	0.0d	-635.0d		30-Oct-07		\$ 0.00
27-H1100	Receive USFWS Final CAR	10.0d	-808.0d	08-Dec-08	19-Dec-08	PD-E.K...	\$ 0.00
27-L340	Receive Final FWCA Report	0.0d	-808.0d		19-Dec-08		\$ 0.00
129011.2.4 Socio-Econ. Analysis Appendix		270.0d	-795.0d	30-Jan-06	26-Feb-07		\$ 14,000.00
27-H1485	Prepare Socio-Econ Appendix	270.0d	-795.0d	30-Jan-06	26-Feb-07	PD-D.K...	\$ 14,000.00
129011.2.5 Engineering & Design Appendix		443.0d	1486.0d	07-Feb-06	08-Nov-07		\$ 587,215.76
129011.2.5.1 Engineering Studies & Investigations		277.0d	1652.0d	07-Feb-06	15-Mar-07		\$ 580,815.76
129011.2.5.1.1 H&H Studies		242.0d	-808.0d	01-Mar-06	14-Feb-07		\$ 304,175.76
27-H1480	Hydrologic Model Selection	20.0d	-808.0d	01-Mar-06	28-Mar-06	EN-HC....	\$ 30,332.64
27-H1481	Model Verification Boundary Conditions Defined	10.0d	-808.0d	29-Mar-06	11-Apr-06	EN-HC....	\$ 9,167.76
27-H1482	Model Calibration Boundary Conditions Defined	10.0d	-808.0d	12-Apr-06	25-Apr-06	EN-HC....	\$ 9,167.76
27-H1483	Model Verification and Calibration	180.0d	-808.0d	26-Apr-06	12-Jan-07	EN-HC....	\$ 185,384.40
27-H1500	Simulation Models (Water Quality)	65.0d	-808.0d	09-Nov-06	14-Feb-07	PD-E.K...	\$ 70,123.20
129011.2.5.1.2 Environmental Assessment Support		0.0d	0.0d				\$ 0.00
129011.2.5.1.3 Surveying and Mapping		0.0d	0.0d				\$ 0.00
129011.2.5.1.4 Geotechnical		66.0d	1818.0d	12-Apr-06	14-Jul-06		\$ 170,000.00
27-H1450	Hydrologic, Physical and Subsurface Data Collection	66.0d	1818.0d	12-Apr-06	14-Jul-06	EN-GG....	\$ 170,000.00
129011.2.5.1.5 Design of Alternatives		86.0d	-788.0d	08-Nov-06	15-Mar-07		\$ 98,140.00
27-H1640	Develop Preliminary Design for Alternatives	86.0d	-788.0d	08-Nov-06	15-Mar-07	EN-D.K...	\$ 98,140.00
129011.2.5.1.6 HTRW Assessment		38.0d	1891.0d	07-Feb-06	31-Mar-06		\$ 8,500.00
27-H1535	HTRW Assessment	33.0d	-698.0d	07-Feb-06	24-Mar-06	EN-HH....	\$ 6,500.00
27-H1645	HTRW Assessment (review of phase 1)	5.0d	1891.0d	27-Mar-06	31-Mar-06	EN-GE....	\$ 2,000.00
129011.2.5.2 Cost Estimate		43.0d	-700.0d	10-Aug-06	11-Oct-06		\$ 3,400.00

Activity ID	Activity Name	Remaining Duration	Total Float	Start	Finish	Primary Resource	Budgeted Total Cost
27-H1671	Develop Cost Estimate	43.0d	-700.0d	10-Aug-06	11-Oct-06	RE-A.K...	\$ 3,400.00
129011.2.5.3 Draft Water Control Plan		30.0d	1486.0d	27-Sep-07	08-Nov-07		\$ 3,000.00
27-H2961	Draft Water Control Plan	30.0d	1486.0d	27-Sep-07	08-Nov-07	NAMED...	\$ 3,000.00
129011.2.6 Real Estate Analysis Appendix		649.0d	1260.0d	30-Jan-06	26-Aug-08		\$ 244,995.00
27-H2960	Obtain Real Estate Rights of Entry Geotech, Survey, Environme...	40.0d	1869.0d	30-Jan-06	27-Mar-06	RE-A.K...	\$ 27,725.00
27-H3265	Preliminary RE Planning Map of Alternatives	20.0d	-704.0d	28-Apr-06	25-May-06	RE-P.K...	\$ 15,000.00
27-H1675	Prepare RE ROM Cost Estimate for YB Plan and Preliminary Alt...	10.0d	-679.0d	26-May-06	09-Jun-06	RE-A.K...	\$ 30,000.00
27-H1676	RE Aquisition Initiated	0.0d	-679.0d		09-Jun-06		\$ 0.00
27-H1670	Develop Planning Cost Estimate (Real Estate)	34.0d	-691.0d	10-Aug-06	27-Sep-06	RE-A.K...	\$ 18,000.00
27-H2925	RE AFB Input	30.0d	-808.0d	29-May-07	10-Jul-07	RE-S.K...	\$ 7,500.00
27-H2080	Prepare Real Estate Appendix	86.0d	-808.0d	13-Sep-07	17-Jan-08	RE-A.K...	\$ 60,000.00
27-H3275	Physical Takings Analysis/non-Standard Estates	14.0d	-736.0d	18-Jan-08	07-Feb-08	OC-RE....	\$ 10,660.00
27-H3295	Relocations/Utility/Attorney's Opinion of Compensability	10.0d	-688.0d	18-Jan-08	01-Feb-08	OC-RE....	\$ 10,000.00
27-H2085	Prepare Planning Maps	86.0d	-808.0d	18-Jan-08	20-May-08	RE-A.K...	\$ 16,160.00
27-H3305	Estate Analysis/Determination	14.0d	-808.0d	21-May-08	10-Jun-08	OC-RE....	\$ 5,000.00
27-H3285	Gross Appraisal	30.0d	-808.0d	11-Jun-08	23-Jul-08	RE-S.K...	\$ 29,750.00
27-H3315	Complete REP	12.0d	-808.0d	24-Jul-08	08-Aug-08	RE-S.K...	\$ 12,000.00
27-H3325	Final REP	12.0d	-692.0d	11-Aug-08	26-Aug-08	RE-S.K...	\$ 3,200.00
129011.2.7 Project Monitoring Plan		86.0d	-745.0d	02-Jan-08	02-May-08		\$ 68,000.00
27-H2060	Develop Project Monitoring Plan	86.0d	-745.0d	02-Jan-08	02-May-08	EN-HH...	\$ 68,000.00
129011.2.8 Project RECOVER Tasks		0.0d	0.0d				\$ 0.00
129011.2.9 PIR Approval		526.0d	990.0d	27-Sep-07	30-Oct-09		\$ 161,831.72
27-H1120	Print and Distribute 1501 Submittal to State	5.0d	-807.0d	25-Sep-08	01-Oct-08	PD-R.K...	\$ 0.00
27-H1060	Notice of Availability in Federal Register (Fridays Only)	11.0d	-808.0d	09-Oct-08	24-Oct-08	PD-E.K...	\$ 500.00
27-L325	Draft PIR/NEPA Published in Federal Register	0.0d	-808.0d		24-Oct-08	PD-E.K...	\$ 0.00
27-H2830	Public Workshop on Draft PIR	2.0d	-808.0d	10-Nov-08	12-Nov-08	PD-R.K...	\$ 16,800.00
27-H3180	Start Public Review Draft PIR/NEPA	0.0d	-808.0d	10-Nov-08			\$ 0.00
27-H1070	Public & Agency Review of PIR/NEPA	33.0d	-808.0d	10-Nov-08	29-Dec-08	PD-E.K...	\$ 3,600.00
27-H1080	Respond to Public Comments on Draft PIR/NEPA	30.0d	-808.0d	08-Dec-08	21-Jan-09	PD-R.K...	\$ 30,235.72
27-H1110	Assemble Final Draft PIR/NEPA for Internal Review	22.0d	-808.0d	22-Dec-08	23-Jan-09	PD-R.K...	\$ 5,500.00
27-H1125	Prepare SAJ Checklist Summary Package	10.0d	-585.5d	07-Jan-09	22-Jan-09	PD-R.K...	\$ 10,000.00
27-H1135	Transmit Final PIR to SAD	10.0d	-585.5d	22-Jan-09	05-Feb-09	PD-R.K...	\$ 5,000.00
27-H2200	In-House Review of Final PIR/NEPA	15.0d	-808.0d	26-Jan-09	13-Feb-09	PD-R.K...	\$ 0.00
27-H1145	DE Briefing to SAD Commander	1.0d	-585.5d	05-Feb-09	06-Feb-09	PD-R.K...	\$ 0.00

Activity ID	Activity Name	Remaining Duration	Total Float	Start	Finish	Primary Resource	Budgeted Total Cost
27-H1155	MSC Notice to HQ	1.0d	-585.5d	06-Feb-09	09-Feb-09	PD-R.K...	\$ 0.00
27-H1165	SAD Transmittal of Final PIR to HQ	5.0d	-585.5d	09-Feb-09	17-Feb-09	PD-R.K...	\$ 0.00
27-H1150	ITR/Legal Review of Final PIR/NEPA	22.0d	-808.0d	17-Feb-09	18-Mar-09	PD-P.K...	\$ 37,300.00
27-H1175	Civil Works Board Meeting	1.0d	-585.5d	17-Feb-09	18-Feb-09	PD-R.K...	\$ 0.00
27-H1160	NFS Letter of Support and Financial Capability Statement	10.0d	-808.0d	19-Mar-09	01-Apr-09	DP.K3H...	\$ 0.00
27-L375	Sponsor's Letter of Intent Received	0.0d	-808.0d		01-Apr-09	PD-R.K...	\$ 0.00
27-H1170	Prepare Final PIR/NEPA for Submittal to MSC	10.0d	-808.0d	02-Apr-09	15-Apr-09	PD-R.K...	\$ 10,000.00
27-H165	Submit Final PIR/NEPA Report to MSC	0.0d	-808.0d		15-Apr-09	PD-R.K...	\$ 0.00
27-H1180	DE Signature	5.0d	-808.0d	16-Apr-09	22-Apr-09	DP.K3H...	\$ 0.00
27-H170	MSC Commander's Public Notice (Complete PIR)	0.0d	-808.0d		22-Apr-09	PD-R.K...	\$ 0.00
27-H1190	State and Agency Letters Signed and Received by District	5.0d	-640.0d	23-Apr-09	29-Apr-09	PD-R.K...	\$ 0.00
27-H2215	Draft ROD	20.0d	1103.0d	23-Apr-09	20-May-09	DP.K3H...	\$ 2,500.00
27-H1200	Mail Letters and Draft Final Report	4.0d	-640.0d	30-Apr-09	05-May-09	PD-R.K...	\$ 0.00
27-H1210	Publish in Federal Register	10.0d	-640.0d	06-May-09	19-May-09	PD-E.K...	\$ 0.00
27-L385	Final PIR/NEPA Report Published in the Federal Register	0.0d	-640.0d		19-May-09	PD-E.K...	\$ 0.00
27-H1220	State, Agency and Public Review	22.0d	-640.0d	20-May-09	19-Jun-09	PD-E.K...	\$ 0.00
27-H180	Washington Level Agency Review/Public Review Complete	0.0d	-640.0d		19-Jun-09		\$ 0.00
27-H1230	Respond to State, Agency and Public Comments	20.0d	-640.0d	22-Jun-09	20-Jul-09	PD-E.K...	\$ 18,996.00
27-H1240	HQ/MSR Review Conference	5.0d	-640.0d	14-Jul-09	20-Jul-09	PD-R.K...	\$ 3,600.00
27-H1250	Policy Review Documentation	7.0d	-640.0d	21-Jul-09	29-Jul-09	PD-R.K...	\$ 5,800.00
27-H2240	Filing of Final PIR/NEPA Document	5.0d	-640.0d	30-Jul-09	05-Aug-09	PD-E.K...	\$ 0.00
27-H3170	Filing of Final EIS	0.0d	-640.0d		05-Aug-09		\$ 0.00
27-H1260	Chief's Report	5.0d	-640.0d	06-Aug-09	12-Aug-09	PD-R.K...	\$ 0.00
27-H2210	ROD Signed	1.0d	-551.0d	03-Sep-09	03-Sep-09	DP.K3H...	\$ 0.00
27-H1270	ASA(CW) Review	30.0d	-640.0d	03-Sep-09	16-Oct-09	PD-R.K...	\$ 0.00
27-H320	Record of Decision (ROD) Signed	0.0d	-551.0d		03-Sep-09	PD-E.K...	\$ 0.00
27-H2230	ASA (CW) Memorandum to OMB	10.0d	-640.0d	19-Oct-09	30-Oct-09	PD-R.K...	\$ 0.00
27-H175	ASA(CW) Memorandum to OMB	0.0d	-640.0d		30-Oct-09	PD-R.K...	\$ 0.00
129011.2.9.1 State Approval Process		308.0d	-807.0d	27-Sep-07	18-Dec-08		\$ 12,000.00
27-H1830	PIR/FS 1501 Pre-Application Meeting (Reasonable Certainty)	1.0d	-575.0d	27-Sep-07	27-Sep-07	PD-R.K...	\$ 1,200.00
27-L245	PIR/FS 1501 Pre-Application Meeting Complete	0.0d	-575.0d		27-Sep-07	PD-R.K...	\$ 0.00
27-H3050	Preparation of 1501 Pre App Mtg Summary	10.0d	-575.0d	28-Sep-07	12-Oct-07	NAMED...	\$ 600.00
27-H1840	1501 Pre App Mtg Summary Reviewed by FDEP	10.0d	-575.0d	15-Oct-07	26-Oct-07	PD-R.K...	\$ 600.00
27-L250	PIR/FS 1501 Pre-Application Concurrence Received from FDEP	0.0d	-575.0d		26-Oct-07	PD-R.K...	\$ 0.00

Activity ID	Activity Name	Remaining Duration	Total Float	Start	Finish	Primary Resource	Budgeted Total Cost
27-H3200	Assemble 1501 Submittal	10.0d	-722.0d	12-May-08	23-May-08	NAMED...	\$ 6,000.00
27-H1850	Submittal Briefing with FDEP (Reasonable Certainty)	2.0d	-804.0d	25-Sep-08	26-Sep-08	PD-R.K...	\$ 1,200.00
27-L295	Submittal Briefing with FDEP Complete	0.0d	-804.0d		26-Sep-08	PD-R.K...	\$ 0.00
27-L350	FS 1501 Submittal to FDEP	0.0d	-807.0d		01-Oct-08	PD-R.K...	\$ 0.00
27-H1130	State 1501 Review & Approval (Reasonable Certainty)	43.0d	-807.0d	02-Oct-08	04-Dec-08	PD-R.K...	\$ 1,200.00
27-L380	FS 1501 FDEP Approval	0.0d	-807.0d		04-Dec-08	PD-R.K...	\$ 0.00
27-H1140	Incorporate State 1501 Comments	10.0d	-807.0d	05-Dec-08	18-Dec-08	PD-R.K...	\$ 1,200.00
129011.2.A Project Authorization		171.0d	-640.0d	02-Nov-09	08-Jul-10		\$ 0.00
27-H1280	OMB Review	50.0d	-640.0d	02-Nov-09	14-Jan-10	PD-R.K...	\$ 0.00
27-H2220	ASA (CW) Letter Submitted to Congress	15.0d	-640.0d	15-Jan-10	05-Feb-10	PD-R.K...	\$ 0.00
27-H340	ASA(CW) Report Submitted to Congress	0.0d	-640.0d		05-Feb-10	PD-R.K...	\$ 0.00
27-H1290	Congressional Review	70.0d	-640.0d	08-Feb-10	17-May-10	PD-R.K...	\$ 0.00
27-H1300	Congressional Authorization	22.0d	-640.0d	18-May-10	17-Jun-10	PD-R.K...	\$ 0.00
27-H1310	President Signs WRDA	14.0d	-640.0d	18-Jun-10	08-Jul-10	PD-R.K...	\$ 0.00
27-H350	President Signs Authorization	0.0d	-640.0d		08-Jul-10	PD-R.K...	\$ 0.00
129011.2.B PIR Close-Out		0.0d	0.0d				\$ 0.00
129011.4.1 SFWMD GB Water Reservations Rule Development		188.0d	-498.0d	03-Sep-09	04-Jun-10		\$ 46,800.00
27-H2640	SFWMD GB Grants Rule Development Authority	15.0d	-498.0d	03-Sep-09	24-Sep-09	NAMED...	\$ 9,000.00
27-H2650	Public Workshops for Rule Development	43.0d	-498.0d	25-Sep-09	27-Nov-09	NAMED...	\$ 25,800.00
27-H2660	SFWMD GB Approves Rulemaking Authority	15.0d	-498.0d	30-Nov-09	18-Dec-09	NAMED...	\$ 3,000.00
27-H2670	Review Period for Draft Rule	50.0d	-498.0d	21-Dec-09	04-Mar-10	NAMED...	\$ 3,000.00
27-H2680	SFWMD GB Adopts Rule	15.0d	-498.0d	05-Mar-10	25-Mar-10	NAMED...	\$ 3,000.00
27-H2690	Notice of Change Published in FAW	22.0d	-498.0d	26-Mar-10	26-Apr-10	NAMED...	\$ 1,500.00
27-H2700	File with the Florida Department of State	10.0d	-498.0d	21-May-10	04-Jun-10	NAMED...	\$ 1,500.00
129011.5.1 PM		0.0d	0.0d				\$ 0.00
129011.5.2 Advanced Planning / Field Work		1115.0d	-808.0d	27-Sep-07	08-Mar-12		\$ 9,033,000.00
27-H2875	Pre-construction, Engineering and Design (PED)	1115.0d	-808.0d	27-Sep-07	08-Mar-12	EN-DL...	\$ 9,033,000.00
27-H2840	Develop Scope of P&S Exploration Plan	25.0d	-808.0d	23-Apr-09	28-May-09	EN-D.K...	\$ 0.00
27-H2850	Develop P&S Survey/Geotech Scope of Work	25.0d	-808.0d	29-May-09	02-Jul-09	EN-D.K...	\$ 0.00
27-H2860	Perform P&S Topo Survey	90.0d	-808.0d	06-Jul-09	10-Nov-09	EN-D.K...	\$ 0.00
27-H2870	Perform P&S Geotech Investigation	90.0d	-808.0d	06-Jul-09	10-Nov-09		\$ 0.00

Activity ID	Activity Name	Remaining Duration	Total Float	Start	Finish	Primary Resource	Budgeted Total Cost
27-H2880	Finalize Geotech/Civil/Structural Scope for P&S	90.0d	-808.0d	12-Nov-09	24-Mar-10		\$ 0.00
27-H500	P&S Initiated	0.0d	-808.0d		24-Mar-10	DP.K3H...	\$ 0.00
27-H2450	A-E Delivery Order Preparation	72.0d	-808.0d	25-Mar-10	06-Jul-10	EN-D.K...	\$ 0.00
129011.5.3 Preliminary P & S		102.0d	719.0d	07-Jul-10	01-Dec-10		\$ 68,200.00
27-H2460	30 % P & S Preparation	86.0d	-808.0d	07-Jul-10	05-Nov-10	EN-D.K...	\$ 3,000.00
27-P700	P&S 30% Technical Review Conference	0.0d	-808.0d		05-Nov-10	EN-D.K...	\$ 0.00
27-H2465	VE 30% P&S Package (VE Workshop)	16.0d	719.0d	08-Nov-10	01-Dec-10	EN-T.K...	\$ 65,200.00
27-H2466	VE 30% P&S Package Complete	0.0d	719.0d		01-Dec-10		\$ 0.00
129011.5.4 Intermediate P & S		232.0d	-745.0d	08-Nov-10	07-Oct-11		\$ 3,000.00
27-H2470	60% P & S Preparation	65.0d	-808.0d	08-Nov-10	10-Feb-11	EN-D.K...	\$ 3,000.00
27-H2471	60% P & S Technical Review and Conference	25.0d	-751.0d	11-Feb-11	18-Mar-11	EN-D.K...	\$ 0.00
27-P705	P&S 60% Technical Review Conference	0.0d	-751.0d		18-Mar-11	EN-D.K...	\$ 0.00
27-H2472	Incorporate 60% Comments	12.0d	-751.0d	21-Mar-11	05-Apr-11	EN-D.K...	\$ 0.00
27-H2480	Advance 100% P&S Preparation	65.0d	-751.0d	06-Apr-11	07-Jul-11	EN-D.K...	\$ 0.00
27-H2490	Survey Verification	43.0d	-745.0d	08-Jul-11	07-Sep-11	EN-D.K...	\$ 0.00
27-H2510	BCOE Package Preparation	14.0d	-751.0d	08-Jul-11	27-Jul-11	EN-T.K...	\$ 0.00
27-H2500	P&S Survey Update	22.0d	-745.0d	08-Sep-11	07-Oct-11	EN-D.K...	\$ 0.00
129011.5.5 Final P & S		153.0d	-808.0d	28-Jul-11	08-Mar-12		\$ 0.00
27-H2890	Final ITR and Certification of P&S	10.0d	-751.0d	28-Jul-11	10-Aug-11	EN-T.K...	\$ 0.00
27-L700	P&S Final ITR and Certification	0.0d	-751.0d		10-Aug-11	EN-T.K...	\$ 0.00
27-H2520	BCOE Review & Conference	25.0d	-751.0d	11-Aug-11	15-Sep-11	EN-T.K...	\$ 0.00
27-H580	P&S BCOE Review	0.0d	-751.0d		15-Sep-11	EN-T.K...	\$ 0.00
27-H2530	BCOE Comment Incorporation	22.0d	-751.0d	16-Sep-11	18-Oct-11	EN-T.K...	\$ 0.00
27-H2512	Incorporate 90% Comments	10.0d	-726.0d	16-Sep-11	29-Sep-11		\$ 0.00
27-H2513	Final BCOE Review	6.0d	-726.0d	30-Sep-11	07-Oct-11		\$ 0.00
27-H2540	Prepare BCOE Certification Package & Review	19.0d	-751.0d	19-Oct-11	15-Nov-11	EN-T.K...	\$ 0.00
27-H2550	BCOE Certification	10.0d	-808.0d	09-Feb-12	23-Feb-12	EN-T.K...	\$ 0.00
27-H590	P&S BCOE Certification	0.0d	-808.0d		23-Feb-12	EN-D.K...	\$ 0.00
27-H2560	EBS Preparation	10.0d	-808.0d	24-Feb-12	08-Mar-12	EN-T.K...	\$ 0.00
129011.5.6 Construction Pre - Award		0.0d	0.0d				\$ 0.00
129011.5.7 Permits/WQ Cert.		984.0d	-808.0d	27-Sep-07	26-Aug-11		\$ 21,600.00
27-H2180	Federal Permit(s) NPDES Construction Activities Application by ...	10.0d	-808.0d	27-Sep-07	11-Oct-07	NAMED...	\$ 1,500.00
27-H2190	Federal Permits Issued	10.0d	156.0d	12-Oct-07	25-Oct-07		\$ 0.00
27-H2730	1502 WQC Pre-Application (CERPRA) Mtg (Reasonable Assura...	1.0d	-787.0d	08-Nov-10	08-Nov-10	NAMED...	\$ 4,500.00

Activity ID	Activity Name	Remaining Duration	Total Float	Start	Finish	Primary Resource	Budgeted Total Cost
27-H3100	Prepare 1502 Application Package	43.0d	-787.0d	09-Nov-10	11-Jan-11		\$ 6,000.00
27-H1890	Submit 1502 WQC Permit Applications	2.0d	-808.0d	11-Feb-11	14-Feb-11	NAMED...	\$ 1,200.00
27-L299	Submit State WQC/Permits Application	0.0d	-808.0d		14-Feb-11		\$ 0.00
27-H1900	State 1502 Application Completeness Review	22.0d	-808.0d	15-Feb-11	17-Mar-11	NAMED...	\$ 3,000.00
27-H3110	Receive Request for Additional Information (RAI)/Completeness ...	0.0d	-808.0d		17-Mar-11		\$ 0.00
27-H3120	Prepare and Submit Response to RAI	22.0d	-808.0d	18-Mar-11	18-Apr-11	NAMED...	\$ 3,000.00
27-H1910	State Agency Action Review	65.0d	-808.0d	19-Apr-11	20-Jul-11	NAMED...	\$ 1,500.00
27-H3130	Corps Review of Draft Permit	10.0d	-796.0d	20-Jun-11	01-Jul-11		\$ 0.00
27-H3190	Receipt of Intent and Public Notice	0.0d	-796.0d		01-Jul-11		\$ 0.00
27-H1920	Publish Notice of Intent of Draft Permit	22.0d	-808.0d	21-Jul-11	19-Aug-11	NAMED...	\$ 600.00
27-H2750	State Issues Final Agency Action (if no petitions are filed)	5.0d	-808.0d	22-Aug-11	26-Aug-11	NAMED...	\$ 300.00
27-H300	State WQC/Permits Received	0.0d	-808.0d		26-Aug-11		\$ 0.00
129011.6.1 Project Appropriation		157.0d	-640.0d	09-Jul-10	23-Feb-11		\$ 0.00
27-H2340	Congressional Appropriation Enacted	157.0d	-640.0d	09-Jul-10	23-Feb-11	DP.K3H...	\$ 0.00
129011.6.2 Draft PCA		16.0d	-808.0d	29-Aug-11	20-Sep-11		\$ 6,000.00
27-H1930	Initiate PCA	1.0d	-808.0d	29-Aug-11	29-Aug-11	DP.K3H...	\$ 0.00
27-L400	PCA Initiated	0.0d	-808.0d		29-Aug-11	DP.K3H...	\$ 0.00
27-H2350	Prepare Draft PCA	15.0d	-808.0d	30-Aug-11	20-Sep-11	DP.K3H...	\$ 6,000.00
129011.6.3 Letter Of Intent		22.0d	-808.0d	21-Sep-11	21-Oct-11		\$ 1,200.00
27-H2360	PCA Approved by Non Federal Sponsor	22.0d	-808.0d	21-Sep-11	21-Oct-11	NAMED...	\$ 1,200.00
129011.6.5 Financial Analysis		0.0d	0.0d				\$ 0.00
129011.6.7 Final PCA		48.0d	-808.0d	24-Oct-11	03-Jan-12		\$ 0.00
27-H2370	PCA Package to HQ's	5.0d	-808.0d	24-Oct-11	28-Oct-11	DP.K3H...	\$ 0.00
27-H620	PCA Submitted to HQ for Approval	0.0d	-808.0d		28-Oct-11	DP.K3H...	\$ 0.00
27-H2380	PCA Package Approved by OASA(CW)	29.0d	-808.0d	31-Oct-11	12-Dec-11	DP.K3H...	\$ 0.00
27-H650	PCA Approved	0.0d	-808.0d		12-Dec-11	DP.K3H...	\$ 0.00
27-H2390	PCA Executed	14.0d	-808.0d	13-Dec-11	03-Jan-12	DP.K3H...	\$ 0.00
27-H690	PCA Executed	0.0d	-808.0d		03-Jan-12	DP.K3H...	\$ 0.00
129011.7.1 PM		0.0d	0.0d				\$ 0.00
129011.7.2 Acquisition		0.0d	0.0d				\$ 0.00
129011.7.3 Land Certification & Credit		25.0d	-808.0d	04-Jan-12	08-Feb-12		\$

Activity ID	Activity Name	Remaining Duration	Total Float	Start	Finish	Primary Resource	Budgeted Total Cost
27-H2400	Land Certification Request to NFS	5.0d	-808.0d	04-Jan-12	10-Jan-12	RE-A.K...	\$ 6,000.00
27-H2405	RE Acquisition	10.0d	-808.0d	11-Jan-12	25-Jan-12		\$
27-H2401	RE Acquisition Complete	0.0d	-808.0d		25-Jan-12		\$ 0.00
27-H2410	RE Certification Package	5.0d	-808.0d	26-Jan-12	01-Feb-12	RE-A.K...	\$ 6,000.00
27-H2420	RE Certification	5.0d	-808.0d	02-Feb-12	08-Feb-12	RE-A.K...	\$ 3,000.00
27-H790	Real Estate Certification Received	0.0d	-808.0d		08-Feb-12	RE-A.K...	\$ 0.00
129011.7.4 Interim Land Management		0.0d	0.0d				\$ 0.00
129011.7.5 Litigation		0.0d	0.0d				\$ 0.00
129011.7.6 Relocation		0.0d	0.0d				\$ 0.00
129011.8.1 PM		0.0d	0.0d				\$ 0.00
129011.8.2 Solicitation / Award		45.0d	-808.0d	09-Mar-12	10-May-12		\$ 0.00
27-H2570	Advertisement Period	22.0d	-808.0d	09-Mar-12	09-Apr-12	CT-C.K...	\$ 0.00
27-H950	Construction Contract Advertised	0.0d	-808.0d		09-Apr-12	CT-C.K...	\$ 0.00
27-H2580	Bid Opening/Notice of Selection	1.0d	-808.0d	10-Apr-12	10-Apr-12	CT-C.K...	\$ 0.00
27-H2590	Award Contract	22.0d	-808.0d	11-Apr-12	10-May-12	CT-C.K...	\$ 0.00
129011.8.3 Construction Contract		22.0d	-808.0d	10-May-12	12-Jun-12		\$ 600.00
27-H960	Construction Contract Awarded	0.0d	-808.0d		10-May-12	CT-C.K...	\$ 0.00
27-H2600	Issue Notice to Proceed	22.0d	-808.0d	11-May-12	12-Jun-12	CT-C.K...	\$ 600.00
27-P805	Construction Contract Notice to Proceed	0.0d	-808.0d		12-Jun-12	CT-C.K...	\$ 0.00
129011.8.3.1 Contract # 1		0.0d	0.0d				\$ 0.00
129011.8.3.2 Contract # 2		0.0d	0.0d				\$ 0.00
129011.8.3.3 Contract # 3		0.0d	0.0d				\$ 0.00
129011.8.4 Construction Management		1142.0d	-808.0d	13-Jun-12	30-Dec-16		\$
27-H2610	Construction	394.0d	-808.0d	13-Jun-12	08-Jan-14	CO-C.K...	\$
27-H2621	Construction Management	394.0d	-765.0d	13-Jun-12	08-Jan-14	CO-C.K...	\$
27-H2614	District S&A	481.0d	-808.0d	13-Jun-12	13-May-14	CO-C.K...	\$ 0.00
27-H2615	Field S&I	481.0d	-808.0d	13-Jun-12	13-May-14	CO-C.K...	\$ 0.00
27-H2616	EDDC	481.0d	-808.0d	13-Jun-12	13-May-14	CO-C.K...	\$ 0.00
27-H2617	ODCC	481.0d	-808.0d	13-Jun-12	13-May-14	CO-C.K...	\$ 0.00
27-H2618	Fiscally Complete	481.0d	-808.0d	03-Feb-15	30-Dec-16	CO-C.K...	\$ 0.00
129011.8.5 Construction Monitoring		10.0d	-424.0d	13-Jun-12	26-Jun-12		\$ 0.00
27-H2612	Implementation of Project Monitoring Plan	10.0d	-424.0d	13-Jun-12	26-Jun-12		\$ 0.00
129011.8.6 Engr During Const		0.0d	0.0d				\$ 0.00

Activity ID	Activity Name	Remaining Duration	Total Float	Start	Finish	Primary Resource	Budgeted Total Cost
129011.8.7 Interim OPS During Constr		65.0d	-808.0d	09-Jan-14	11-Apr-14		\$ 18,000.00
27-H2620	Interim Operational Period	65.0d	-808.0d	09-Jan-14	11-Apr-14	CO-C.K...	\$ 18,000.00
129011.8.8 RECOVER		0.0d	0.0d				\$ 0.00
129011.8.9 Contract Close-Out		87.0d	-148.0d	09-Jan-14	13-May-14		\$ 6,000.00
27-H2611	Construction Completion	22.0d	-765.0d	09-Jan-14	10-Feb-14	CO-C.K...	\$ 0.00
27-H2630	Contract Physically Complete	22.0d	-808.0d	14-Apr-14	13-May-14	CO-C.K...	\$ 6,000.00
27-H970	Construction Contract Physically Complete	0.0d	-148.0d		13-May-14	CO-C.K...	\$ 0.00
129011.B.3 Post Construction Monitoring		1.0d	-148.0d	14-May-14	14-May-14		\$ 20,000.00
27-H2635	Post Construction Monitoring	1.0d	-148.0d	14-May-14	14-May-14	NAMED...	\$ 20,000.00
129011.B.1 PM		0.0d	0.0d				\$ 0.00
129011.B.2 Pre Construction Monitoring		0.0d	0.0d				\$ 0.00
129011.C.1 Fiscal Closure		0.0d	0.0d				\$ 0.00
129011.C.2 Audits		0.0d	0.0d				\$ 0.00
129011.C.3 Transfer		0.0d	0.0d				\$ 0.00

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TAB B – Activity Definitions, Constraints and Assumptions

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Appendix C Tab B - Activity Definitions, Constraints & Assumptions

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Activity	Constraints & Assumptions
27-1040 Hold PDT Kick-Off Meeting	
Constraints and Assumptions	RECOVER Input to PMP - Specific interactions for RECOVER with the Project team will be identified and discussed.
27-1155 Final Approval by Branch & Division Chiefs	
Constraints and Assumptions	This activity will be a signing ceremony
27-1230 Final Approval by Non Federal Sponsor	
Constraints and Assumptions	This activity will be a signing ceremony
27-H1000 In Progress Review	
General Notes/Activity Definition	<u>Issue Resolution Conferences / In-Progress Reviews (IRCs/ IPRs).</u> The purpose of an IRC is to involve the USACE vertical team in the early identification and resolution of potential problems (technical/policy) that could delay study progress. The purpose of an IPR is to provide the USACE vertical team, and others as needed, with an update of study findings and progress. IRCs and IPRs can be held at any time during the study process at the request of any USACE vertical team member (i.e., District, Division or Headquarters) or the ASA(CW). Documentation should be developed to provide the background and facts appropriate to the purpose and scope of the IRC/IPR. Issues that need to be resolved should be identified and fully documented, and the District should present its analysis of options considered and its recommended solution. Prior to an IRC/IPR, the District should have completed and documented independent technical review appropriate to the stage of the study. Upon completion of the process outlined in this exhibit (Exhibit G-3), Headquarters will provide any guidance for the resolution of issues or future study activities in the form of an IRC/IPR Guidance Memorandum. Duration includes the actual meeting and the time for preparation of meeting summary and submittal to SAD/HQ for their initiation of the Project Guidance Memorandum. Purpose of this IPR is a HQUSACE policy compliance review. Requires preparation of read-ahead materials (minimum of 31 days in advance of meeting) and follow-up project guidance memorandum. It is assumed that technical reviews are accomplished at the AFB meeting and the policy compliance review can be accomplished after release of the draft PIR. It is assumed that HQ policy compliance review is not needed prior to release to the public.
27-H1130 State 1501 Review & Approval (Reasonable Certainty)	
Constraints and Assumptions	1. This activity is supportive of the project at this point, but a WQC permit must be obtained at a later date.

Appendix C Tab B - Activity Definitions, Constraints & Assumptions

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Activity	Constraints & Assumptions
27-H1330 Compile (Preliminary) Draft PIR/NEPA	
General Notes/Activity Definition	Compilation of a preliminary draft PIR for internal review. Includes summarizing all studies, appendices and decisions to date.
27-H1350 Initiate PIR Preparation	
General Notes/Activity Definition	Preliminary development of scope of the study. The duration of this activity is not impacted by project scope. See GM 1 for format and content.
27-H1355 PIR Kick-Off Meeting	
Constraints and Assumptions	RECOVER Overview Presentation - Provide an over to RECOVER's purpose, scope of interactions, and system-wide view. This is intended as a abroad overview of RECOVER to familiarize the project team with RECOVERs objectives; How project goals and expected benefits relate to the broader CERP objectives; Adaptive Management strategy; Conceptual ecological models; Applicable MAP activities in the project area; and, RECOVER's role in reviewing performance measures, conducting regional evaluations, reviewing project monitoring plans, and providing input to project operating manuals.
27-H1360 Identify Problems, Opportunities, Objectives & Constraints	
Constraints and Assumptions	PTL coordinates draft strawman with team and distributes to PDT electronically for review. PDT team identified in PMP. Assume information will be developed within 3 weeks of initiate PIR. The assumption is that this activity is a review of the Yellow Book goals and objectives, performed by an internal team and then provided to PDT for comment. The duration of this activity assumes that major conflicts do not arise.
27-H1380 Inventory and Forecast Hydrologic & Geologic Resources	
General Notes/Activity Definition	Includes all efforts to identify and review applicable literature, determine additional data necessary, and coordinate with all agencies to select an appropriate hydrologic model. This activity begins with the initiation of the PIR. It is assumed that this activity can be accomplished with in-house resources. If it turns out that this assumption is not valid, then the PDT will need permission from the PRB to outsource the inventory to an A/E firm.
27-H1390 Inventory and Forecast Ecological & Cultural Resources	
General Notes/Activity Definition	Literature search only, no field work. Initial SHPO consultation. Assumes timely from Resource Agencies. This activity begins with the initiation of the PIR.

Appendix C Tab B - Activity Definitions, Constraints & Assumptions

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Constraints & Assumptions

27-H1400 Inventory and Forecast Economic Resources

General Notes/Activity Definition

Literature search only, no field work. This activity begins with the initiation of the PIR.

27-H1430 Identify Performance Measures

Constraints and Assumptions

Performance Measure Development: RECOVER Performance Measure Presentation - The earliest team meeting at the start of this activity should be used for RECOVER to present and familiarize the project team with: RECOVER's system-wide performance measures and interim goals & interim targets; Minimizing redundancy while maintaining consistency between project and System-wide performance measures; and, RECOVER's role in ensuring consistency between project performance measures and system-wide performance measures.

General Notes/Activity Definition

Includes both hydrologic and ecologic PMs. Must identify minimum level of acceptable performance and/or targets. Existing and Future Without Project conditions should be substantially complete before PMs identified and must be substantially completed before completion of Simulation Models. RECOVER will review project level performance measures for consistency with System PMs. The PMs used for alternative evaluation will be the RECOVER PMs. Performance Measures should be based on the Conceptual Ecological Models.

Members of PDT will participate. PD-R, PD-E, DP, EN, etc...as required.

27-H1435 RECOVER Review of Project Performance Measures

General Notes/Activity Definition

Performance Measure Consistency Review - The Evaluation Team will review project-level performance measures to ensure consistency with system-wide performance measures. This interaction will be conducted according to RECOVER's SOP for PM consistency reviews. RECOVER's report should be included in the PIR and the project should notify RECOVER on how their comments are being addressed.

27-H1460 Water Quality / Ecologic Data Collection

Constraints and Assumptions

Assumes the general area of alternative project sites is known and sufficient WQ data exists.

27-H1470 Economic Data Collection

General Notes/Activity Definition

An existing condition inventory includes preparation of land use maps, population, water demands etc. Contacts with County and State Planning Agencies, Agricultural Agents and Growers is required. Can be combined with an environmental inventory.

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Activity	Constraints & Assumptions
27-H1475 Wet Season Test	
Constraints and Assumptions	Assumes the general area of alternative project sites is known and sufficient WQ data exists.
27-H1483 Model Verification and Calibration	
Constraints and Assumptions	This assumes utilizing current models, peer reviewed by IMC. It is assumed that the project is a non- estuarine ecosystem.
27-H1490 Identify Simulation Models (Ecologic)	
Constraints and Assumptions	This assumes utilizing current models, peer reviewed by IMC.
27-H1495 Evaluate Old and New Data Together	
Constraints and Assumptions	Assumes the general area of alternative project sites is known and sufficient WQ data exists.
27-H1500 Simulation Models (Water Quality)	
Constraints and Assumptions	This assumes utilizing current models, peer reviewed by IMC.
27-H1510 Simulation Models (Economic)	
Constraints and Assumptions	This assumes utilizing current models, peer reviewed by IMC.
27-H1520 Model Existing & Without Plan Conditions	
Constraints and Assumptions	Assumes running current IMC peer reviewed models (with no problems) on existing conditions and future conditions without the project.
27-H1530 Compile Existing and Future Without Conditions	
General Notes/Activity Definition	Compiling existing conditions starts at the same time as the inventory and forecast conditions activity starts. RECOVER will assist the PDTs in development of the future without conditions (GM 2)
27-H1531 GIS Support to Compile Existing and Future Without Conditions	
General Notes/Activity Definition	Compiling existing conditions starts at the same time as the inventory and forecast conditions activity starts. RECOVER will assist the PDTs in development of the future without conditions (GM 2)
27-H1535 HTRW Assessment	

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Activity	Constraints & Assumptions
General Notes/Activity Definition	Compiling existing conditions starts at the same time as the inventory and forecast conditions activity starts. RECOVER will assist the PDTs in development of the future without conditions (GM 2)
27-H1540 RECOVER Assistance with Development of Existing & Future Without Conditions	
Constraints and Assumptions	The RECOVER Planning Team will provide the project team with the appropriate modeling assumptions for the SFWMM Existing Conditions (2000), Future Without Project Condition (2050), and Future With CERP Condition to conduct Plan Formulation activities.
General Notes/Activity Definition	RECOVER will assist the PDT in defining the project existing condition write-up and provide a consistency review with respect to the regional conditions (6/16/04 Draft GM 2)
27-H1560 Identification of Management Measures	
Constraints and Assumptions	This activity is the initial brainstorming of possible management measures (evaluation criteria, per GMs 1 & 2) This activity must begin after development of PM are complete (and no earlier than completion of PMs.
27-H1570 Compare Existing Condition to Pre-CERP Baseline	
General Notes/Activity Definition	Determine whether pre-CERP water quantity of comparable quality is still available by comparing to the PIR Existing Conditions. (Per GM2). This is sequenced to insure plans are formulated to take into account savings clause requirements.
27-H1572 Define Components & Create Array of Alternatives	
Constraints and Assumptions	RECOVER Regional Evaluation Presentation - This presentation should be given at the first team meeting at the start of this activity. The presentation is intended to familiarize the project team with the following concepts: RECOVER's evaluation of project alternative plans; RECOVER's assistance in helping the project team determine which benefits to evaluate and how they relate to system-wide monitoring; RECOVER's role in helping the projects determine their contribution toward interim goals & interim targets; and, RECOVER's availability to provide input during the development of the projects' initial array of alternative plans.
General Notes/Activity Definition	After initial brainstorming management measures are combined into the initial set of alternative plans in light of dependencies and combinability of the management measures. This will include some screening criteria to narrow the results of the initial brainstorming.
27-H1580 ITR of FSM Package	
Constraints and Assumptions	ITR is 10 day duration and response to ITR comments is 5 day duration

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Activity

Constraints & Assumptions

27-H1590 Submit FSM Documentation to HQ

General Notes/Activity Definition

Document Transmittal. The documentation required for an FSM, AFB, or IRC/IPR is defined in this exhibit (G-3) and in Exhibits G-4 and G-5. The District will submit 10 copies of documentation to the respective HQUSACE MSC Regional Integration Team and two copies to the MSC. The transmittal memorandum will identify and discuss any policy issues requiring resolution and/or significant or potential issues that the MSC /District believes could affect the outcome of the project. Copies of previous Headquarters guidance memoranda, the District's compliance memorandum, and appropriate technical review documentation should be enclosed. Districts and MSCs are encouraged to use electronic mail for the transmittal of small documents, for example section 905(b) documents. These submittals should contain one or two (maximum) PDF files that are printable on standard 8 1/2" x 11" size paper. Due to current electronic mail system limitations, transmittal of files larger than 5 megabytes is not possible.

27-H1600 Feasibility Scoping Meeting

General Notes/Activity Definition

The next step in the process is for the USACE vertical team, the non-Federal sponsor, and others as necessary [e.g., ASA(CW), resource agencies] to discuss the comments and responses and reach consensus on the appropriate actions, that will be taken to resolve the issue. The form of this discussion may be a telephone conference, video conference, or a face-to-face meeting as appropriate. The appropriate MSC RIT Team should be contacted to discuss the form of the discussion and a range of proposed dates for the discussion and will confirm the acceptability of the final date with other Washington level offices. When deciding the form of the discussion, consideration should be given to the need for a project site visit. A project site visit should be part of the FSM and/or AFB, unless there are extenuating circumstances. If a site visit would be useful but is not practical, slides and/or a video should be presented.

Discussions of policy issues will be chaired by the MSC and should be structured to encourage the surfacing and discussion of concerns and development of consensus on resolution of issues. The sponsor and appropriate Federal and State agencies should be encouraged to participate fully in all discussions. The District participants should be prepared to address the policy issues raised by Headquarters review. Discussions and required actions will be recorded and will be the basis of the draft guidance memorandum developed at the conference.

27-H1610 Receive FSM Guidance Memorandum

Constraints and Assumptions

Headquarters Guidance Documentation. In coordination with the Office of Water Project Review and Headquarters CoPs, as appropriate, the respective MSC RIT Team will be responsible for finalizing the guidance memorandum. The final guidance

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Activity	Constraints & Assumptions
	memorandum will be transmitted to the Division Office within 14 calendar days following the discussion of the issues. All subsequent documents submitted for Headquarters review shall be accompanied by a document indicating how compliance with previous Headquarters guidance has been achieved. The guidance memorandum will be used to revise the PMP to incorporate the changes agreed to at the meetings. The revised PMP, as a result of the FSM or other IRCs/IPRs, will be followed during the conduct of the feasibility study and will be a primary tool for the review of subsequent products (AFB pre-conference documentation, draft or final report). Outstanding policy and ITR issues must be resolved before subsequent products are forwarded to HQUSACE. Assumes that receipt of Project Guidance Memo (PGM) is not on the critical path. That means production work does not wait on the PGM and work products proceed based on the results of SAD/HQ comments to submittal package and/or FSM/AFB/IPR meeting.
27-H1620 ITR Meeting with PDT to prepare for FSM	
Constraints and Assumptions	PDT furnished FSM Package prior to meeting, for concurrent review with ITR team.
27-H1640 Develop Preliminary Design for Alternatives	
General Notes/Activity Definition	Includes sufficient design for the development of preliminary cost estimates needed for preliminary and secondary screening of alternatives.
27-H1650 Model & Evaluate Alternatives (compare with & without plan)	
General Notes/Activity Definition	Conduct alternative model runs to assess and evaluate ecologic and environmental effects at the project and regional (system-wide) levels. Tasks will be accomplished for system formulation and interim operations assessments. Assume that 3 alternatives are run for the sub-regional model with at least two model runs per alternative.
27-H1655 Write NEPA Alternative Analysis	
General Notes/Activity Definition	Conduct alternative model runs to assess and evaluate ecologic and environmental effects at the project and regional (system-wide) levels. Tasks will be accomplished for system formulation and interim operations assessments. Assume that 3 alternatives are run for the sub-regional model with at least two model runs per alternative.
27-H1660 Develop Planning Cost Estimates (Engineering, Construction, O&M)	
General Notes/Activity Definition	This tasks involves design and cost of conceptual plans in support of preliminary and secondary screening of alternative plans as well as for an evaluation and comparison of alternatives and selection of a recommended plan .

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Activity	Constraints & Assumptions
	2/17/05 - The FF-5 Predessor tie with H1640 was deleted due to the fact the the KAPOW Robot cannot handle the same activity appearing as a Predessor or Successor more than once.
27-H1665 Develop Environmental Effects/Benefits Evaluation Method	General Notes/Activity Definition Conduct alternative model runs to assess and evaluate ecologic and environmental effects at the project and regional (system-wide) levels. Tasks will be accomplished for system formulation and interim operations assessments. Assume that 3 alternatives are run for the sub-regional model with at least two model runs per alternative.
27-H1670 Develop Planning Cost Estimate (Real Estate)	Constraints and Assumptions Includes all RE tasks required to support preparation of preliminary RE acquisition cost estimates for each alternative.
27-H1675 Prepare RE ROM Cost Estimate for YB Plan and Preliminary Alternatives	Constraints and Assumptions Includes all RE tasks required to support preparation of preliminary RE acquisition cost estimates for each alternative.
27-H1680 Receive USFWS PAL	General Notes/Activity Definition Begins after NEPA Scoping meeting and provides documentation for FSM meeting.
27-H1685 Simulation of Existing and Without Plan Conditions and Alternatives with SFWMM (IMC)	General Notes/Activity Definition Conduct alternative model runs to assess and evaluate ecologic and environmental effects at the project and regional (system-wide) levels. Tasks will be accomplished for system formulation and interim operations assessments. Assume that 3 alternatives are run for the sub-regional model with at least two model runs per alternative.
27-H1690 System Wide Evaluation (RECOVER)	Constraints and Assumptions RECOVER Evaluation of Alternative Plans - The RECOVER Evaluation team reviews every project's alternative plans once and reports on how well each alternative preforms in the context of the system as a whole. RECOVER uses the SFWMM to evaluate plans at the system scale. Smaller projects and hydrologically distinct project that cannot be effectively modeled using the SFWMM will be evaluated using the project's performance measures, available regional modeling output, and best professional judgement.

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Activity	Constraints & Assumptions
General Notes/Activity Definition	RECOVER, via the IMC, will conduct system-wide evaluations of alternative plans.
27-H1700 Conduct Cost-Effectiveness & Incremental Cost Analysis	
General Notes/Activity Definition	For all Corps projects, alternative plans that must be compared to one another are compared on the four criteria of effectiveness, efficiency, completeness and acceptability. For CERP projects both project level and system wide considerations must be taken into account. Three pieces of information are necessary to complete plan comparison of alternative plans using cost effectiveness and incremental cost analyses (CE/ICA): 1) the array of alternatives or management measures; 2) the total and average annual cost of each alternative or management measure; and 3) the environmental effects of each alternative plan or management measure described in terms of total ecosystem benefits and average annual ecosystem benefits. (See GM 2, when final)
27-H1710 Life Cycle Costing	
General Notes/Activity Definition	Provide life cycle costing for all alternatives. Provide insight into economic issues such as phasing of work efforts to obtain maximum benefits as early as possible.
27-H1720 Compare Alternative Plans & Select Tentatively Selected Plan	
General Notes/Activity Definition	After the CE/ICA, corroboration of results from different approaches may strengthen the rationale for selecting one alternative over all others.
27-H1730 Compile Comments/Issues/Concerns; Finalize Problems & Oppotunities	
General Notes/Activity Definition	PD-ES writes "issues and concerns" input to PIR beginning with scoping input.
27-H1750 Detailed Inventory Ecological, Water Quality	
General Notes/Activity Definition	A more detailed inventory based on initial inventory and preliminary cultural resource consultation. This information will provide necessary data for the alternative plan evaluation methodology.
27-H1800 Submit AFB Documentation to HQ and SFRTF	
General Notes/Activity Definition	Includes mailing package to SFRTF
27-H1820 AFB Guidance Memorandum	

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Activity	Constraints & Assumptions
Constraints and Assumptions	Assumes that receipt of Project Guidance Memo (PGM) is not on the critical path. That means production work does not wait on the PGM and work products proceed based on the results of SAD/HQ comments to submittal package and/or FSM/AFB/IPR meeting.
27-H1830 PIR/FS 1501 Pre-Application Meeting (Reasonable Certainty)	
Constraints and Assumptions	Brief synopsis of this in GM 2 (not detailed).
27-H1900 State 1502 Application Completeness Review	
Constraints and Assumptions	1. This activity assumes only one (1) request for additional information.
27-H1940 Conduct NEPA Scoping Activities	
Constraints and Assumptions	This includes the time to prepare letter and submit to Federal Register for publication.
General Notes/Activity Definition	The National Environmental Policy Act regulations (40 CFR Parts 1500-1508) require all Federal agencies involved in water resources planning to conduct a process termed "scoping". The NEPA scoping process is intended to be a public process that determines the scope of issues to be addressed and identifies the significant issues related to a proposed action. Although NEPA scoping has traditionally been associated solely with identifying the concerns associated with proposed actions, it is possible and highly encouraged that PDTs combine the NEPA scoping process with identification of problems and opportunities to identify primary issues that need to be addressed in subsequent steps of the 6-step planning process.
27-H1950 Hold NEPA Scoping Meeting	
General Notes/Activity Definition	The meeting in which NEPA scoping is coordinated with the Problems and Opportunities identification process of the PDT
27-H1960 Evaluation of Environmental Effects/Benefits & Compliance	
General Notes/Activity Definition	Write PIR "Environmental Effects" chapter for EIS.
27-H1970 Draft CAR received to be used in draft NEPA	
General Notes/Activity Definition	USFWS will not send draft CAR until the TSP is identified.
27-H1990 Develop Draft Scope of TSP Exploration Plan & Confirm with Sponsor	

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Activity	Constraints & Assumptions
General Notes/Activity Definition	Develop scope exploration plan and obtain rights of entry. Meet with sponsor to confirm plan and amend plan based on sponsor input.
27-H2000 Develop TSP Site Survey/Geotech Scope	
General Notes/Activity Definition	Develop survey and geotech scope for additional data needed to further the design of the TSP.
27-H2010 Obtain SAP Geotechnical & Survey Data	
General Notes/Activity Definition	Detailed subsurface investigations/site characterization, more closely spaced borings, and drill at structure locations. Includes core borings and HTRW survey. Includes additional survey data collection as necessary.
27-H2030 Perform SAP Civil/Structural & M&E Analysis	
General Notes/Activity Definition	
27-H2040 Perform SAP Geotech Analysis	
General Notes/Activity Definition	Geotechnical analysis includes: slope stability, embankment, seepage, erosion control, structure foundation, dewatering, rock excavation & blasting, HWRW plan. Geotechnical Appendix for Engineering Report.
27-H2060 Develop Project Monitoring Plan	
Constraints and Assumptions	RECOVER Monitoring Plan Presentation - Following the project's AFB meeting, RECOVER should provide the project team with an overview of the remaining RECOVER interaction points: RECOVER review of project monitoring plans; RECOVER assistance in developing project operating manuals; and, RECOVER assistance in determining system-wide benefits. The first team meeting following the AFB and prior to the start of this activity should be used for the presentation.
General Notes/Activity Definition	RECOVER will coordinate with the PDT to ensure consistency among project level and regional level monitoring plans. Because of the relative newness of restoration science and uncertainty in ecosystem restoration planning, success can vary due to a variety of technical and site-specific factors. Recognizing this uncertainty, we will allow for contingencies to address restoration problems early in the planning process. To accomplish this, a technique called "adaptive management" will be included in restoration projects. At the heart of adaptive management and the cornerstone for restoration success is a carefully designed monitoring program that measures effects of restoration measures, allows for feedback based on new insights, and adjustments made accordingly to the project and future separable restoration elements. Monitoring plans will be in place during and after project construction, and will provide input into local and regional ecological assessments. Local monitoring efforts will be coordinated wi
27-H2070 Selected Alternative Plan (SAP)	

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Activity	Constraints & Assumptions
General Notes/Activity Definition	Includes public involvement and response to comments in the AFB Guidance Memorandum. PDT members will be involved including; Sponsor, PD-R, PD-E, DP, EN, etc... as required.
27-H2080 Prepare Real Estate Appendix	
General Notes/Activity Definition	Includes all RE tasks required to support preparation of RE Appendix
27-H2085 Prepare Planning Maps	
General Notes/Activity Definition	Includes all RE tasks required to support preparation of RE Appendix
27-H2090 Perform SAP H&H Analysis	
Constraints and Assumptions	For CERP projects which include a reservoir or STA, the Draft PIR shall include a determination of the Hazard Potential Classification for the reservoir/STA design in the Selected Alternative Plan (SAP). This classification shall be made in accordance with EC 1110-2-6061, Safety of Dams - Policy and Procedures, dated 30 April 2004. During future preparation of Plans & Specifications (P&S), CERP Projects which include a reservoir or STA with a Hazard Potential Classification of High or Significant Risk, shall develop an Emergency Action Plan (EAP) for reference by the Project Operating Manual. The EAP will be revised, as appropriate, for future project phases. Duration of this activity assumes that additional Geotech data not required for H&H Analysis of SAP
27-H2100 Develop Draft Project Operating Manual	
Constraints and Assumptions	CERP ProRegs, Section 385.28(c) requires a draft Project Operating Manual as an appendix to the PIR, and requires revisions, as appropriate, for the project construction phase and operational monitoring and testing phase. Temporary operational plans for the construction phase will be developed during future P&S preparation and documented in an Interim Operations Manual. During P&S preparation, CERP Projects which include a reservoir or STA with a Hazard Potential Classification of High or Significant Risk, shall develop an Emergency Action Plan (EAP) for reference by the Project Operating Manual. The EAP will be revised, as appropriate, for future project phases.
General Notes/Activity Definition	The Draft Project Operating Manual contains the regulation schedules and operating criteria for project regulation. In addition, they provide for the collection, analysis and distribution of data. These are subject to modification through detailed design, construction, and operational testing and monitoring phases. See GM 3. RECOVER's planning team is available to provide assistance in developing each project's draft operating manual and interim operating strategy in order to optimize the performance of each feature in the context of the rest of CERP and the overall system-level goals.

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Activity	Constraints & Assumptions	
27-H2110 Quantify Water Made Available	Constraints and Assumptions	Assume the selected plan modeled by 2X2 or other regional hydrologic model capable of producing water budgets. No rule making required by State of Florida and no extra public involvement required. See GM 5 when complete
27-H2120 Savings Analysis	General Notes/Activity Definition	Ensures that for the SAP the Level of service for flood protection has not been reduced and that the water supply for existing legal sources is intact. See GM 6 when complete
27-H2130 Identify Water to be Reserved	General Notes/Activity Definition	The non-Federal Sponsor will identify water to be reserved for the natural system pursuant to state law. See GM 5 (topic is under discussion for inclusion 7/29/04)
27-H2150 Prepare MCASES Cost Estimate	Constraints and Assumptions	If MCACES cost estimate is significantly different than the planning cost estimates for CE/ICA then this would necessitate re-evaluation of the alternative plans.
	General Notes/Activity Definition	Estimates include engineering, construction Real Estate, and Operations and Maintenance.
27-H2170 Phase 2 Cultural Resource Field Survey/Coordination	Constraints and Assumptions	Dependent on results of Phase I Survey
27-H2180 Federal Permit(s) NPDES Construction Activities Application by Local Sponsor	Constraints and Assumptions	Assumed to be for NPDES construction activities
27-H2250 Phase 1 Cultural Resource Surveys and Coordination	General Notes/Activity Definition	Corps and SHPO determine amount of survey required. Minimum time 13 weeks, widely variable.
27-H2260 Submit Documentation to HQ for Draft PIR/NEPA Review	Constraints and Assumptions	
27-H2270 HQ Policy Review Comments to SAJ & SAD		

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Activity	Constraints & Assumptions
General Notes/Activity Definition	<u>Document Review and Discussion of Issues.</u> Headquarters will review the FSM, AFB, or IRC/IPR documentation and produce policy compliance review comments (see Appendix H, paragraph H-2.c.) appropriate to the situation. The target time for providing formal, written Headquarters policy review comments is 30 days after receipt of complete documentation. Policy review comments will be transmitted to the District and MSC with required actions identified to achieve issue resolution. At a minimum, the District will be required to provide formal written responses to the Headquarters policy review comments on how the issues will be resolved.
27-H2640 SFWMD GB Grants Rule Development Authority	
General Notes/Activity Definition	This task duration is estimated to include lead time for agenda and back-up to go to the SFWMD Governing Board. Predecessors are Identification of Water and Chief's Report Complete.
27-H2660 SFWMD GB Approves Rulemaking Authority	
General Notes/Activity Definition	GB approves DRAFT rule for publication. Includes lead time for agenda and back-up to GB.
27-H2670 Review Period for Draft Rule	
General Notes/Activity Definition	Draft rule published in Florida Administrative Weekly (FAW). 45 days for review, 25 days to get item to FAW publishers
27-H2700 File with the Florida Department of State	
General Notes/Activity Definition	Final rule published in FAW. 25 days to get item to FAW publishers.
27-H2710 RECOVER Review of Preliminary Draft PIR	
General Notes/Activity Definition	RECOVER Assistance in System-wide Benefits Analysis - The RECOVER evaluation team is developing a system-wide benefits methodology to assist the project teams in quantifying a project's system-wide benefits. Once completed, the evaluation team will provide assistance to the project teams in applying this methodology to the individual projects.
27-H2720 Preliminary Screening of Conceptual Alternatives	
Constraints and Assumptions	Includes development of screening criteria Screening criteria will have been defined that eliminate some alternatives for further evaluation. This screening is primarily qualitative in nature. Need to include cursory screening for project assurances (GM 2) - include flood protection (GM 5), elimination or transfer of water (GM 6) TBD
27-H2760 Determine Final Alternative Array	

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Activity	Constraints & Assumptions
Constraints and Assumptions	This screening is more quantitative than qualitative, but uses the same screening criteria developed for the preliminary screening.
27-H2770 Preliminary ESA Consultation	
General Notes/Activity Definition	Preliminary Endangered Species Act coordination. Provides early verification of the protected species list. Begins after NEPA Scoping meeting and provides documentation for FSM meeting.
27-H2775 ESA Consultation	
General Notes/Activity Definition	Preliminary Endangered Species Act coordination. Provides early verification of the protected species list. Begins after NEPA Scoping meeting and provides documentation for FSM meeting.
27-H2780 Preliminary Cultural Resource (SHPO) Consultation	
General Notes/Activity Definition	Preliminary cultural resources consultation. Announces project, likely area of effect and receive SHPO response. Begins after NEPA Scoping meeting and provides documentation for FSM meeting.
27-H2785 Consultation (Native Americans)	
General Notes/Activity Definition	Preliminary cultural resources consultation. Announces project, likely area of effect and receive SHPO response. Begins after NEPA Scoping meeting and provides documentation for FSM meeting.
27-H2790 Compile FSM submittals for Ecol., WQ. and CR	
General Notes/Activity Definition	Preparation of the documentation of the ecological, water quality data collection efforts and preliminary cultural resource consultation. CR survey may not be completed at this time, but FSM level write up can be finished.
27-H2795 Biological Assessment	
General Notes/Activity Definition	Preliminary Endangered Species Act coordination. Provides early verification of the protected species list. Begins after NEPA Scoping meeting and provides documentation for FSM meeting.
27-H2910 Prepare FSM Package	
Constraints and Assumptions	Team to coordinate with HQ before submittal of package, informing them of the impending submittal.
General Notes/Activity Definition	FSM documentation should include, as a minimum, a detailed description of identified problems and opportunities, statements of specific planning objectives and constraints, a detailed description of future without project conditions, a description of applicable management measures, the results of preliminary plan formulation and evaluation (i.e., screening), and the results of preliminary

Appendix C Tab B - Activity Definitions, Constraints & Assumptions

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and evaluation (i.e., screening), and the results of preliminary coordination and public involvement. Issues that need to be resolved should be identified and fully documented, and the District should present its analysis of options considered and its recommended solution. FSM documentation will address the general evaluation guidelines presented in Exhibit G-1 to the extent possible at this early stage of the study. Exhibit G-4 is an expanded outline of the information to be included in FSM documentation and addresses the level of detail required. Technical work products that support the FSM documentation (e.g., surveying & mapping, hydraulics & hydrology, average annual damage computations, etc.) should have been subject to independent technical review (ITR). Although ITR issues may not have been fully resolved, a status report discussing significant ITR concerns and how these concerns will be resolved must be provided as part of the FSM material. The transmittal of the FSM material to Headquarters should include a document that explains what actions have been taken to address any issues identified by Headquarters in the reconnaissance guidance memorandum.

Exhibit G-4. Items to be Addressed in Feasibility Scoping Meeting (FSM) Documentation

1. Study Background.

- Study Authority. Include the full text of the study resolution(s) or other authority.
- Location. Include a map(s).

2. Existing Conditions and Future Without Project Condition Problems, Opportunities, Goals, Objectives, and Constraints. Present the results of Steps 1 and 2 of the Planning Process as generally described in Appendix E, paragraph E-3.a.(1) and (2). Specifically identify any key assumptions regarding forecasted without-project conditions. For the project purpose(s) being studied, provide specific information to describe and quantify the problem in accordance with the applicable evaluation procedures presented in Appendix E. Following are references to the specific analyses and information required to describe the problem for several project purposes:

- Urban Flood Damage Reduction. Paragraphs E-19.d. – k.
- Deep Draft Navigation. Paragraphs E-10.d.(1) – (7).
- Ecosystem Restoration. Paragraph E-33.

3. Formulation and Evaluation of Preliminary Plans. The FSM documentation will present the results of initial plan formulation, Step 3 of the Planning Process (paragraph E-3.a.(3)).

- Identification of Management Measures. A management measure is a feature (a structural element that requires construction or assembly on-site) or an activity (a nonstructural action). Management measures are the building blocks of

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Management measures are the building blocks of alternative plans. The FSM documentation will describe the full range of management measures that have been considered to address the identified problems and opportunities.

Descriptions of management measure will include their purpose, location, composition (e.g., materials, methods), and physical properties (i.e., scale/sizing) to the extent possible at this early stage of the study. All applicable measures should be considered, including those beyond the authority of the Corps to implement.

- Evaluation of Management Measures. For each measure identified, discuss its potential to contribute to the planning objectives and its consistency with the planning constraints. Identify measures that will be eliminated from further consideration and document the reasons (e.g., cost, effectiveness). Identify measures that can be combined to form alternative plans. Identify measures that must be combined due to dependency. Identify measures that are mutually exclusive. Assess the Federal interest in identified potential solutions to the problems based on consistency with Administration budget policy, specific USACE policies for each project purpose (see Appendix E), and Federal laws, regulations, and Executive Orders. Indicate who (i.e., Corps, other Federal agency, non-Federal interests) has responsibility for addressing each problem identified.

- Plans To Be Studied Further. Identify the conceptual plans that will be studied further and describe the future work that will be accomplished to develop and evaluate preliminary plans.

4. Policy issues or questions to include analysis of options and proposed recommendation(s). A list of sensitive policy areas which require vertical team coordination with MSC / HQUSACE is enclosed as Exhibit G-6.

5. Independent technical review documentation completed to date, including status of unresolved issues and how they will be resolved.

6. List of future study/project milestones and completion dates

7. Proposed Changes to the PMP. Provide a narrative discussion of changes that need to be made to the PMP as a result of the findings of the study to date. Explain significant changes in the scope, schedule, or cost of specific tasks.

8. Headquarters Guidance Memoranda from Reconnaissance Phase or most recent IRC/IPR.

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	or most recent IRC/IPK. 9. <u>Compliance memorandum</u> indicating how compliance with Reconnaissance or most recent IRC/IPR Guidance has been achieved. The FSM documentation should include but is not limited to the above items. It should include other information pertinent to the project or specific issues.
27-H2950 A-E Contract(s) Procurement (Survey & Geotech)	
General Notes/Activity Definition	For additional data required to design the SAP to the Feasibility level of design.
27-H2960 Obtain Real Estate Rights of Entry Geotech, Survey, Environmental & Cultural	
General Notes/Activity Definition	ROE needed for additional data collection for the inventory phase, if needed.
27-H2970 Obtain Real Estate Rights of Entry	
General Notes/Activity Definition	ROE needed for additional data collection for SAP design.
27-H2980 Survey Data Collection for Models	
Constraints and Assumptions	Assumes LIDAR needed for models.
27-H3130 Corps Review of Draft Permit	
Constraints and Assumptions	Assumes coordination through Legal

TAB C – Activity ID/WBS Cross Reference

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CERP Everglades National Park
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27-1010	129011.1.2	Initial PMP Coordination Meeting	1.0d	23-Jun-05 A	23-Jun-05 A
27-1020	129011.1.2	PMP Initiated	0.0d		23-Jun-05 A
27-1040	129011.1.2	Hold PDT Kick-Off Meeting	1.0d	24-Jun-05 A	24-Jun-05 A
27-1060	129011.1.2	Prepare Draft PMP	35.0d	01-Jul-05 A	19-Aug-05 A
27-1080	129011.1.2	Internal Review of Draft PMP	5.0d	22-Aug-05 A	26-Aug-05 A
27-1100	129011.1.2	Final Draft PMP Incorporating Internal Review	5.0d	29-Aug-05 A	02-Sep-05 A
27-1110	129011.1.2	Post on Documentum for Agency Review	5.0d	06-Sep-05 A	12-Sep-05 A
27-1140	129011.1.2	Final PMP Incorporate Agency Comments	5.0d	13-Sep-05 A	19-Sep-05 A
27-1150	129011.1.2	Distribute Draft PMP for PRB and Non Federal Sponsor Se...	25.0d	20-Sep-05 A	25-Oct-05 A
27-1155	129011.1.2	Final Approval by Branch & Division Chiefs	2.0d	26-Oct-05 A	02-Nov-05
27-1210	129011.1.2	PMP Approved by Local Sponsor	0.0d		15-Nov-05
27-1230	129011.1.2	Final Approval by Non Federal Sponsor	14.0d	26-Oct-05 A	15-Nov-05
27-1240	129011.1.2	Approval by Corps Deputy District Engineer	3.0d	16-Nov-05	18-Nov-05
27-1250	129011.1.2	PMP DDE(PM) Signature	0.0d		18-Nov-05
27-1260	129011.1.2	Work-in-Kind Letter from Corps Engineer	2.0d	21-Nov-05	22-Nov-05
27-1270	129011.1.2	Work-in-Kind Letter Signed by District Engineer	0.0d		22-Nov-05
27-H100	129011.2.2.1	Initiate PIR	0.0d		22-Nov-05
27-H1000	129011.2.2.6	In Progress Review	4.5d	16-Dec-08	22-Dec-08
27-H1005	129011.1.1	Travel CO FY05	86.0d	01-Jun-05 A	30-Sep-05 A
27-H1010	129011.2.2.6	Project Guidance Memorandum (IPR)	10.0d	22-Dec-08	07-Jan-09
27-H1015	129011.1.1	GP Truck FY05	86.0d	01-Jun-05 A	30-Sep-05 A
27-H1020	129011.2.2.6	Complete Draft PIR/NEPA Document for NEPA Review	7.0d	16-Sep-08	24-Sep-08
27-H1030	129011.2.2.6	ITR on Draft PIR/NEPA Document	10.0d	11-Aug-08	22-Aug-08
27-H1050	129011.2.2.6	Release (Print & Mail) Draft PIR/NEPA Doc	10.0d	25-Sep-08	08-Oct-08
27-H1060	129011.2.9	Notice of Availability in Federal Register (Fridays Only)	11.0d	09-Oct-08	24-Oct-08
27-H1065	129011.1.2	PMP Draft Completed	0.0d		19-Aug-05 A
27-H1070	129011.2.9	Public & Agency Review of PIR/NEPA	33.0d	10-Nov-08	29-Dec-08
27-H1080	129011.2.9	Respond to Public Comments on Draft PIR/NEPA	30.0d	08-Dec-08	21-Jan-09
27-H1100	129011.2.3.1	Receive USFWS Final CAR	10.0d	08-Dec-08	19-Dec-08
27-H1105	129011.1.1	Travel DP FY05	86.0d	01-Jun-05 A	30-Sep-05 A
27-H1110	129011.2.9	Assemble Final Draft PIR/NEPA for Internal Review	22.0d	22-Dec-08	23-Jan-09
27-H1120	129011.2.9	Print and Distribute 1501 Submittal to State	5.0d	25-Sep-08	01-Oct-08
27-H1125	129011.2.9	Prepare SAJ Checklist Summary Package	10.0d	07-Jan-09	22-Jan-09
27-H1130	129011.2.9.1	State 1501 Review & Approval (Reasonable Certainty)	43.0d	02-Oct-08	04-Dec-08
27-H1135	129011.2.9	Transmit Final PIR to SAD	10.0d	22-Jan-09	05-Feb-09
27-H1140	129011.2.9.1	Incorporate State 1501 Comments	10.0d	05-Dec-08	18-Dec-08
27-H1145	129011.2.9	DE Briefing to SAD Commander	1.0d	05-Feb-09	06-Feb-09
27-H1150	129011.2.9	ITR/Legal Review of Final PIR/NEPA	22.0d	17-Feb-09	18-Mar-09
27-H1155	129011.2.9	MSC Notice to HQ	1.0d	06-Feb-09	09-Feb-09
27-H1160	129011.2.9	NFS Letter of Support and Financial Capability Statement	10.0d	19-Mar-09	01-Apr-09
27-H1165	129011.2.9	SAD Transmittal of Final PIR to HQ	5.0d	09-Feb-09	17-Feb-09
27-H1170	129011.2.9	Prepare Final PIR/NEPA for Submittal to MSC	10.0d	02-Apr-09	15-Apr-09
27-H1175	129011.2.9	Civil Works Board Meeting	1.0d	17-Feb-09	18-Feb-09

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27-H1180	129011.2.9	DE Signature	5.0d	16-Apr-09	22-Apr-09
27-H1190	129011.2.9	State and Agency Letters Signed and Received by District	5.0d	23-Apr-09	29-Apr-09
27-H1200	129011.2.9	Mail Letters and Draft Final Report	4.0d	30-Apr-09	05-May-09
27-H1205	129011.1.1	DP Project Management FY06	250.0d	03-Oct-05 A	29-Sep-06
27-H1210	129011.2.9	Publish in Federal Register	10.0d	06-May-09	19-May-09
27-H1215	129011.1.1	DP Project Management FY07 and Beyond	2143.0d	01-Nov-05*	15-May-14
27-H1220	129011.2.9	State, Agency and Public Review	22.0d	20-May-09	19-Jun-09
27-H1230	129011.2.9	Respond to State, Agency and Public Comments	20.0d	22-Jun-09	20-Jul-09
27-H124	129011.2.2.5	Alternative Formulation Briefing (AFB)	0.0d		12-Sep-07
27-H1240	129011.2.9	HQ/MSR Review Conference	5.0d	14-Jul-09	20-Jul-09
27-H1250	129011.2.9	Policy Review Documentation	7.0d	21-Jul-09	29-Jul-09
27-H126	129011.2.2.5	AFB Guidance Memorandum Received	0.0d		26-Sep-07
27-H1260	129011.2.9	Chief's Report	5.0d	06-Aug-09	12-Aug-09
27-H1270	129011.2.9	ASA(CW) Review	30.0d	03-Sep-09	16-Oct-09
27-H1280	129011.2.A	OMB Review	50.0d	02-Nov-09	14-Jan-10
27-H1290	129011.2.A	Congressional Review	70.0d	08-Feb-10	17-May-10
27-H130	129011.2.2.6	Complete PIR Review Conference	0.0d		22-Dec-08
27-H1300	129011.2.A	Congressional Authorization	22.0d	18-May-10	17-Jun-10
27-H1305	129011.1.1	Printing FY05	64.0d	01-Jul-05 A	30-Sep-05 A
27-H1310	129011.2.A	President Signs WRDA	14.0d	18-Jun-10	08-Jul-10
27-H1315	129011.1.1	Printing FY06	250.0d	03-Oct-05 A	29-Sep-06
27-H1330	129011.2.2.6	Compile (Preliminary) Draft PIR/NEPA	22.0d	10-Apr-08	09-May-08
27-H1340	129011.2.2.6	In-house Review of Draft PIR/NEPA	10.0d	12-May-08	23-May-08
27-H1350	129011.2.2.1	Initiate PIR Preparation	1.0d	23-Nov-05	23-Nov-05
27-H1355	129011.2.2.1	PIR Kick-Off Meeting	1.0d	22-Nov-05	22-Nov-05
27-H1360	129011.2.2.1	Identify Problems, Opportunities, Objectives & Constraints	15.0d	23-Nov-05	14-Dec-05
27-H1380	129011.2.2.2	Inventory and Forecast Hydrologic & Geologic Resources	43.0d	24-Jan-06	24-Mar-06
27-H1390	129011.2.2.2	Inventory and Forecast Ecological & Cultural Resources	43.0d	25-Nov-05	27-Jan-06
27-H140	129011.2.2.6	Project Guidance Memorandum (PGM) Received	0.0d		07-Jan-09
27-H1400	129011.2.2.2	Inventory and Forecast Economic Resources	43.0d	25-Nov-05	27-Jan-06
27-H1430	129011.2.2.2	Identify Performance Measures	43.0d	15-Dec-05	16-Feb-06
27-H1435	129011.2.2.2	RECOVER Review of Project Performance Measures	60.0d	30-Dec-05	28-Mar-06
27-H1450	129011.2.5.1.4	Hydrologic, Physical and Subsurface Data Collection	66.0d	12-Apr-06	14-Jul-06
27-H1460	129011.2.2.2	Water Quality / Ecologic Data Collection	66.0d	15-Feb-06	18-May-06
27-H1470	129011.2.2.2	Economic Data Collection	66.0d	15-Feb-06	18-May-06
27-H1475	129011.2.2.2	Wet Season Test	5.0d	01-Jun-06*	07-Jun-06
27-H1480	129011.2.5.1.1	Hydrologic Model Selection	20.0d	01-Mar-06	28-Mar-06
27-H1481	129011.2.5.1.1	Model Verification Boundary Conditions Defined	10.0d	29-Mar-06	11-Apr-06
27-H1482	129011.2.5.1.1	Model Calibration Boundary Conditions Defined	10.0d	12-Apr-06	25-Apr-06
27-H1483	129011.2.5.1.1	Model Verification and Calibration	180.0d	26-Apr-06	12-Jan-07
27-H1485	129011.2.4	Prepare Socio-Econ Appendix	270.0d	30-Jan-06	26-Feb-07
27-H1490	129011.2.2.2	Identify Simulation Models (Ecologic)	66.0d	18-Apr-06	20-Jul-06
27-H1495	129011.2.2.2	Evaluate Old and New Data Together	1.0d	08-Jun-06	08-Jun-06

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27-H1500	129011.2.5.1.1	Simulation Models (Water Quality)	65.0d	09-Nov-06	14-Feb-07
27-H1510	129011.2.2.2	Simulation Models (Economic)	129.0d	07-Aug-06	12-Feb-07
27-H1520	129011.2.2.2	Model Existing & Without Plan Conditions	86.0d	08-Nov-06	15-Mar-07
27-H1530	129011.2.2.2	Compile Existing and Future Without Conditions	33.0d	07-Feb-06	24-Mar-06
27-H1531	129011.2.2.2	GIS Support to Compile Existing and Future Without Condi...	10.0d	13-Mar-06	24-Mar-06
27-H1535	129011.2.5.1.6	HTRW Assessment	33.0d	07-Feb-06	24-Mar-06
27-H1540	129011.2.2.2	RECOVER Assistance with Development of Existing & Futu...	44.0d	23-Nov-05	27-Jan-06
27-H1560	129011.2.2.3	Identification of Management Measures	22.0d	29-Mar-06	27-Apr-06
27-H1570	129011.2.2.3	Compare Existing Condition to Pre-CERP Baseline	10.0d	02-Mar-07	15-Mar-07
27-H1572	129011.2.2.3	Define Components & Create Array of Alternatives	43.0d	28-Apr-06	28-Jun-06
27-H1580	129011.2.2.3	ITR of FSM Package	15.0d	31-Aug-06	21-Sep-06
27-H1590	129011.2.2.3	Submit FSM Documentation to HQ	2.0d	25-Sep-06	26-Sep-06
27-H1600	129011.2.2.3	Feasibility Scoping Meeting	2.0d	07-Nov-06	08-Nov-06
27-H1610	129011.2.2.3	Receive FSM Guidance Memorandum	11.0d	09-Nov-06	27-Nov-06
27-H1620	129011.2.2.3	ITR Meeting with PDT to prepare for FSM	1.0d	22-Sep-06	22-Sep-06
27-H1640	129011.2.5.1.5	Develop Preliminary Design for Alternatives	86.0d	08-Nov-06	15-Mar-07
27-H1645	129011.2.5.1.6	HTRW Assessment (review of phase 1)	5.0d	27-Mar-06	31-Mar-06
27-H165	129011.2.9	Submit Final PIR/NEPA Report to MSC	0.0d		15-Apr-09
27-H1650	129011.2.2.4	Model & Evaluate Alternatives (compare with & without plan)	66.0d	24-Jan-07	26-Apr-07
27-H1655	129011.2.3	Write NEPA Alternative Analysis	66.0d	24-Jan-07	26-Apr-07
27-H1660	129011.2.2.3	Develop Planning Cost Estimates (Engineering, Constructio...	86.0d	16-Nov-06	22-Mar-07
27-H1665	129011.2.3	Develop Environmental Effects/Benefits Evaluation Method	66.0d	24-Jan-07	26-Apr-07
27-H1670	129011.2.6	Develop Planning Cost Estimate (Real Estate)	34.0d	10-Aug-06	27-Sep-06
27-H1671	129011.2.5.2	Develop Cost Estimate	43.0d	10-Aug-06	11-Oct-06
27-H1675	129011.2.6	Prepare RE ROM Cost Estimate for YB Plan and Preliminar...	10.0d	26-May-06	09-Jun-06
27-H1676	129011.2.6	RE Aquisition Initiated	0.0d		09-Jun-06
27-H1680	129011.2.3.1	Receive USFWS PAL	22.0d	25-Nov-05	27-Dec-05
27-H1685	129011.2.2.4	Simulation of Existing and Without Plan Conditions and Alte...	45.0d	08-Nov-06	16-Jan-07
27-H1690	129011.2.2.4	System Wide Evaluation (RECOVER)	45.0d	20-Apr-07	22-Jun-07
27-H170	129011.2.9	MSC Commander's Public Notice (Complete PIR)	0.0d		22-Apr-09
27-H1700	129011.2.2.5	Conduct Cost-Effectiveness & Incremental Cost Analysis	15.0d	25-May-07	15-Jun-07
27-H1710	129011.2.2.3	Life Cycle Costing	11.0d	23-Mar-07	06-Apr-07
27-H1720	129011.2.2.5	Compare Alternative Plans & Select Tentatively Selected Plan	11.0d	25-Jun-07	10-Jul-07
27-H1730	129011.2.3	Compile Comments/Issues/Concerns; Finalize Problems & ...	30.0d	10-Jan-06	22-Feb-06
27-H175	129011.2.9	ASA(CW) Memorandum to OMB	0.0d		30-Oct-09
27-H1750	129011.2.3	Detailed Inventory Ecological, Water Quality	75.0d	01-Mar-06	14-Jun-06
27-H1770	129011.2.2.5	ITR of AFB Package	15.0d	19-Jun-07	10-Jul-07
27-H180	129011.2.9	Washington Level Agency Review/Public Review Complete	0.0d		19-Jun-09
27-H1800	129011.2.2.5	Submit AFB Documentation to HQ and SFRTF	2.0d	01-Aug-07	02-Aug-07
27-H1810	129011.2.2.5	AFB Meeting	1.0d	12-Sep-07	12-Sep-07
27-H1820	129011.2.2.5	AFB Guidance Memorandum	10.0d	13-Sep-07	26-Sep-07
27-H1830	129011.2.9.1	PIR/FS 1501 Pre-Application Meeting (Reasonable Certainty)	1.0d	27-Sep-07	27-Sep-07
27-H1840	129011.2.9.1	1501 Pre App Mtg Summary Reviewed by FDEP	10.0d	15-Oct-07	26-Oct-07

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27-H1850	129011.2.9.1	Submittal Briefing with FDEP (Reasonable Certainty)	2.0d	25-Sep-08	26-Sep-08
27-H1890	129011.5.7	Submit 1502 WQC Permit Applications	2.0d	11-Feb-11	14-Feb-11
27-H1900	129011.5.7	State 1502 Application Completeness Review	22.0d	15-Feb-11	17-Mar-11
27-H1910	129011.5.7	State Agency Action Review	65.0d	19-Apr-11	20-Jul-11
27-H1920	129011.5.7	Publish Notice of Intent of Draft Permit	22.0d	21-Jul-11	19-Aug-11
27-H1930	129011.6.2	Initiate PCA	1.0d	29-Aug-11	29-Aug-11
27-H1940	129011.2.3	Conduct NEPA Scoping Activities	29.0d	25-Nov-05	06-Jan-06
27-H1950	129011.2.3	Hold NEPA Scoping Meeting	1.0d	09-Jan-06	09-Jan-06
27-H1960	129011.2.3	Evaluation of Environmental Effects/Benefits & Compliance	20.0d	27-Apr-07	24-May-07
27-H1970	129011.2.3.1	Draft CAR received to be used in draft NEPA	10.0d	17-Oct-07	30-Oct-07
27-H1990	129011.2.2.6	Develop Draft Scope of TSP Exploration Plan & Confirm wit...	10.0d	11-Jul-07	24-Jul-07
27-H2000	129011.2.2.6	Develop TSP Site Survey/Geotech Scope	10.0d	25-Jul-07	07-Aug-07
27-H2010	129011.2.2.6	Obtain SAP Geotechnical & Survey Data	66.0d	27-Nov-07	03-Mar-08
27-H2030	129011.2.2.6	Perform SAP Civil/Structural & M&E Analysis	65.0d	27-Dec-07	31-Mar-08
27-H2040	129011.2.2.6	Perform SAP Geotech Analysis	66.0d	27-Nov-07	03-Mar-08
27-H2060	129011.2.7	Develop Project Monitoring Plan	86.0d	02-Jan-08	02-May-08
27-H2070	129011.2.2.6	Selected Alternative Plan (SAP)	32.0d	13-Aug-07	26-Sep-07
27-H2080	129011.2.6	Prepare Real Estate Appendix	86.0d	13-Sep-07	17-Jan-08
27-H2085	129011.2.6	Prepare Planning Maps	86.0d	18-Jan-08	20-May-08
27-H2090	129011.2.2.6	Perform SAP H&H Analysis	52.0d	13-Sep-07	28-Nov-07
27-H2095	129011.2.2.6	Next Added Increment Analysis	22.0d	29-Nov-07	31-Dec-07
27-H2100	129011.2.2.6	Develop Draft Project Operating Manual	86.0d	12-Oct-07	15-Feb-08
27-H2110	129011.2.2.6.1	Quantify Water Made Available	20.0d	19-Feb-08	17-Mar-08
27-H2120	129011.2.2.6.1	Savings Analysis	20.0d	19-Feb-08	17-Mar-08
27-H2130	129011.2.2.6.1	Identify Water to be Reserved	45.0d	18-Mar-08	19-May-08
27-H2140	129011.2.2.6	Develop Implementation Plan	11.0d	25-Apr-08	09-May-08
27-H2150	129011.2.2.6	Prepare MCASES Cost Estimate	22.0d	03-Apr-08	02-May-08
27-H2160	129011.2.2.5	Non Federal Sponsor Coordination	10.0d	13-Sep-07	26-Sep-07
27-H2170	129011.2.3	Phase 2 Cultural Resource Field Survey/Coordination	220.0d	15-Jun-06	01-May-07
27-H2180	129011.5.7	Federal Permit(s) NPDES Construction Activities Applicatio...	10.0d	27-Sep-07	11-Oct-07
27-H2190	129011.5.7	Federal Permits Issued	10.0d	12-Oct-07	25-Oct-07
27-H2200	129011.2.9	In-House Review of Final PIR/NEPA	15.0d	26-Jan-09	13-Feb-09
27-H2210	129011.2.9	ROD Signed	1.0d	03-Sep-09	03-Sep-09
27-H2215	129011.2.9	Draft ROD	20.0d	23-Apr-09	20-May-09
27-H2220	129011.2.A	ASA (CW) Letter Submitted to Congress	15.0d	15-Jan-10	05-Feb-10
27-H2230	129011.2.9	ASA (CW) Memorandum to OMB	10.0d	19-Oct-09	30-Oct-09
27-H2240	129011.2.9	Filing of Final PIR/NEPA Document	5.0d	30-Jul-09	05-Aug-09
27-H2250	129011.2.3	Phase 1 Cultural Resource Surveys and Coordination	150.0d	01-Mar-06	29-Sep-06
27-H2260	129011.2.2.6	Submit Documentation to HQ for Draft PIR/NEPA Review	2.0d	27-Oct-08	28-Oct-08
27-H2270	129011.2.2.3	HQ Policy Review Comments to SAJ & SAD	22.0d	27-Sep-06	27-Oct-06
27-H2280	129011.2.2.3	SAJ Response to HQ Policy Review Comments	6.0d	30-Oct-06	06-Nov-06
27-H2290	129011.2.2.5	HQ Policy Review AFB Comments to SAJ & SAD	22.0d	03-Aug-07	04-Sep-07
27-H2300	129011.2.2.5	SAJ Response to HQ Policy Review Comments	5.0d	05-Sep-07	11-Sep-07

CERP Everglades National Park
Seepage Management

Activity ID/WBS Cross Reference

08-Nov-05

Activity ID	WBS	Activity Name	Original Duration	Start	Finish
27-H2310	129011.2.2.6	HQ Policy Review Draft PIR/NEPA Comments to SAJ & SAD	22.0d	29-Oct-08	01-Dec-08
27-H2320	129011.2.2.6	SAJ Response to HQ Policy Review Comments	10.0d	02-Dec-08	15-Dec-08
27-H2330	129011.2.2.6	Incorporate In-House, RECOVER & ITR Comments on Prel...	15.0d	25-Aug-08	15-Sep-08
27-H2340	129011.6.1	Congressional Appropriation Enacted	157.0d	09-Jul-10	23-Feb-11
27-H2350	129011.6.2	Prepare Draft PCA	15.0d	30-Aug-11	20-Sep-11
27-H2360	129011.6.3	PCA Approved by Non Federal Sponsor	22.0d	21-Sep-11	21-Oct-11
27-H2370	129011.6.7	PCA Package to HQ's	5.0d	24-Oct-11	28-Oct-11
27-H2380	129011.6.7	PCA Package Approved by OASA(CW)	29.0d	31-Oct-11	12-Dec-11
27-H2390	129011.6.7	PCA Executed	14.0d	13-Dec-11	03-Jan-12
27-H2400	129011.7.3	Land Certification Request to NFS	5.0d	04-Jan-12	10-Jan-12
27-H2401	129011.7.3	RE Acquisition Complete	0.0d		25-Jan-12
27-H2405	129011.7.3	RE Acquisition	10.0d	11-Jan-12	25-Jan-12
27-H2410	129011.7.3	RE Certification Package	5.0d	26-Jan-12	01-Feb-12
27-H2420	129011.7.3	RE Certification	5.0d	02-Feb-12	08-Feb-12
27-H2450	129011.5.2	A-E Delivery Order Preparation	72.0d	25-Mar-10	06-Jul-10
27-H2460	129011.5.3	30 % P & S Preparation	86.0d	07-Jul-10	05-Nov-10
27-H2465	129011.5.3	VE 30% P&S Package (VE Workshop)	16.0d	08-Nov-10	01-Dec-10
27-H2466	129011.5.3	VE 30% P&S Package Complete	0.0d		01-Dec-10
27-H2470	129011.5.4	60% P & S Preparation	65.0d	08-Nov-10	10-Feb-11
27-H2471	129011.5.4	60% P & S Technical Review and Conference	25.0d	11-Feb-11	18-Mar-11
27-H2472	129011.5.4	Incorporate 60% Comments	12.0d	21-Mar-11	05-Apr-11
27-H2480	129011.5.4	Advance 100% P&S Preparation	65.0d	06-Apr-11	07-Jul-11
27-H2490	129011.5.4	Survey Verification	43.0d	08-Jul-11	07-Sep-11
27-H2500	129011.5.4	P&S Survey Update	22.0d	08-Sep-11	07-Oct-11
27-H2510	129011.5.4	BCOE Package Preparation	14.0d	08-Jul-11	27-Jul-11
27-H2512	129011.5.5	Incorporate 90% Comments	10.0d	16-Sep-11	29-Sep-11
27-H2513	129011.5.5	Final BCOE Review	6.0d	30-Sep-11	07-Oct-11
27-H2520	129011.5.5	BCOE Review & Conference	25.0d	11-Aug-11	15-Sep-11
27-H2530	129011.5.5	BCOE Comment Incorporation	22.0d	16-Sep-11	18-Oct-11
27-H2540	129011.5.5	Prepare BCOE Certification Package & Review	19.0d	19-Oct-11	15-Nov-11
27-H2550	129011.5.5	BCOE Certification	10.0d	09-Feb-12	23-Feb-12
27-H2560	129011.5.5	EBS Preparation	10.0d	24-Feb-12	08-Mar-12
27-H2570	129011.8.2	Advertisement Period	22.0d	09-Mar-12	09-Apr-12
27-H2580	129011.8.2	Bid Opening/Notice of Selection	1.0d	10-Apr-12	10-Apr-12
27-H2590	129011.8.2	Award Contract	22.0d	11-Apr-12	10-May-12
27-H2600	129011.8.3	Issue Notice to Proceed	22.0d	11-May-12	12-Jun-12
27-H2610	129011.8.4	Construction	394.0d	13-Jun-12	08-Jan-14
27-H2611	129011.8.9	Construction Completion	22.0d	09-Jan-14	10-Feb-14
27-H2612	129011.8.5	Implementation of Project Monitoring Plan	10.0d	13-Jun-12	26-Jun-12
27-H2614	129011.8.4	District S&A	481.0d	13-Jun-12	13-May-14
27-H2615	129011.8.4	Field S&I	481.0d	13-Jun-12	13-May-14
27-H2616	129011.8.4	EDDC	481.0d	13-Jun-12	13-May-14
27-H2617	129011.8.4	ODCC	481.0d	13-Jun-12	13-May-14

Activity ID	WBS	Activity Name	Original Duration	Start	Finish
27-H2618	129011.8.4	Fiscally Complete	481.0d	03-Feb-15	30-Dec-16
27-H2620	129011.8.7	Interim Operational Period	65.0d	09-Jan-14	11-Apr-14
27-H2621	129011.8.4	Construction Management	394.0d	13-Jun-12	08-Jan-14
27-H2630	129011.8.9	Contract Physically Complete	22.0d	14-Apr-14	13-May-14
27-H2635	129011.B.3	Post Construction Monitoring	1.0d	14-May-14	14-May-14
27-H2640	129011.4.1	SFWMD GB Grants Rule Development Authority	15.0d	03-Sep-09	24-Sep-09
27-H2650	129011.4.1	Public Workshops for Rule Development	43.0d	25-Sep-09	27-Nov-09
27-H2660	129011.4.1	SFWMD GB Approves Rulemaking Authority	15.0d	30-Nov-09	18-Dec-09
27-H2670	129011.4.1	Review Period for Draft Rule	50.0d	21-Dec-09	04-Mar-10
27-H2680	129011.4.1	SFWMD GB Adopts Rule	15.0d	05-Mar-10	25-Mar-10
27-H2690	129011.4.1	Notice of Change Published in FAW	22.0d	26-Mar-10	26-Apr-10
27-H2700	129011.4.1	File with the Florida Department of State	10.0d	21-May-10	04-Jun-10
27-H2710	129011.2.2.6	RECOVER Review of Preliminary Draft PIR	10.0d	12-May-08	23-May-08
27-H2720	129011.2.2.3	Preliminary Screening of Conceptual Alternatives	30.0d	26-May-06	10-Jul-06
27-H2730	129011.5.7	1502 WQC Pre-Application (CERPRA) Mtg (Reasonable As...	1.0d	08-Nov-10	08-Nov-10
27-H2750	129011.5.7	State Issues Final Agency Action (if no petitions are filed)	5.0d	22-Aug-11	26-Aug-11
27-H2760	129011.2.2.3	Determine Final Alternative Array	22.0d	11-Jul-06	09-Aug-06
27-H2770	129011.2.3.1	Preliminary ESA Consultation	35.0d	09-Jan-06	28-Feb-06
27-H2775	129011.2.3.1	ESA Consultation	120.0d	01-Mar-06	17-Aug-06
27-H2780	129011.2.3	Preliminary Cultural Resource (SHPO) Consultation	35.0d	09-Jan-06	28-Feb-06
27-H2785	129011.2.3	Consultation (Native Americans)	35.0d	09-Jan-06	28-Feb-06
27-H2790	129011.2.3	Compile FSM submittals for Ecol., WQ. and CR	10.0d	01-Mar-06	14-Mar-06
27-H2795	129011.2.3.1	Biological Assessment	15.0d	18-Aug-06	08-Sep-06
27-H2800	129011.2.3	Document Environmental Law Compliance	45.0d	27-Sep-07	03-Dec-07
27-H2810	129011.2.3	Prepare Env Effects, Cum Effects, Tradeoff Discussion for ...	20.0d	29-Nov-07	27-Dec-07
27-H2820	129011.2.3	Incorporate all NEPA into PIR and Review for consistency	20.0d	28-Dec-07	28-Jan-08
27-H2830	129011.2.9	Public Workshop on Draft PIR	2.0d	10-Nov-08	12-Nov-08
27-H2840	129011.5.2	Develop Scope of P&S Exploration Plan	25.0d	23-Apr-09	28-May-09
27-H2850	129011.5.2	Develop P&S Survey/Geotech Scope of Work	25.0d	29-May-09	02-Jul-09
27-H2860	129011.5.2	Perform P&S Topo Survey	90.0d	06-Jul-09	10-Nov-09
27-H2870	129011.5.2	Perform P&S Geotech Investigation	90.0d	06-Jul-09	10-Nov-09
27-H2875	129011.5.2	Pre-construction, Engineering and Design (PED)	1115.0d	27-Sep-07	08-Mar-12
27-H2880	129011.5.2	Finalize Geotech/Civil/Structural Scope for P&S	90.0d	12-Nov-09	24-Mar-10
27-H2890	129011.5.5	Final ITR and Certification of P&S	10.0d	28-Jul-11	10-Aug-11
27-H2910	129011.2.2.3	Prepare FSM Package	15.0d	10-Aug-06	30-Aug-06
27-H2920	129011.2.2.5	Prepare AFB Package	30.0d	29-May-07	10-Jul-07
27-H2925	129011.2.6	RE AFB Input	30.0d	29-May-07	10-Jul-07
27-H2935	129011.1.1	GP Truck FY06	230.0d	01-Nov-05*	29-Sep-06
27-H2940	129011.2.2.2	A-E Contract Procurement (Geotech)	40.0d	14-Feb-06	11-Apr-06
27-H2945	129011.1.1	GP Truck FY07 and Beyond	250.0d	02-Oct-06	28-Sep-07
27-H2950	129011.2.2.6	A-E Contract(s) Procurement (Survey & Geotech)	40.0d	27-Sep-07	26-Nov-07
27-H2955	129011.1.1	EN Travel FY07 and Beyond	250.0d	02-Oct-06*	28-Sep-07
27-H2960	129011.2.6	Obtain Real Estate Rights of Entry Geotech, Survey, Enviro...	40.0d	30-Jan-06	27-Mar-06

CERP Everglades National Park
Seepage Management

Activity ID/WBS Cross Reference

08-Nov-05

Activity ID	WBS	Activity Name	Original Duration	Start	Finish
27-H2961	129011.2.5.3	Draft Water Control Plan	30.0d	27-Sep-07	08-Nov-07
27-H2965	129011.1.1	Printing FY06 and Beyond	250.0d	03-Oct-05 A	30-Oct-06
27-H2970	129011.2.2.6	Obtain Real Estate Rights of Entry	40.0d	27-Sep-07	26-Nov-07
27-H2975	129011.1.1	Travel DP FY06	230.0d	01-Nov-05*	29-Sep-06
27-H2980	129011.2.2.2	Survey Data Collection for Models	66.0d	28-Dec-05	03-Apr-06
27-H2985	129011.1.1	Travel PD FY07 and Beyond	250.0d	02-Oct-06*	28-Sep-07
27-H2990	129011.2.2.2	A-E Contract Procurement (Survey)	22.0d	25-Nov-05	27-Dec-05
27-H2995	129011.1.1	Travel CO FY06 and Beyond	230.0d	01-Nov-05*	29-Sep-06
27-H300	129011.5.7	State WQC/Permits Received	0.0d		26-Aug-11
27-H3000	129011.2.2.2	A-E Contract Procurement for Water Quality / Ecologic Data...	40.0d	16-Dec-05	14-Feb-06
27-H3005	129011.1.1	RE Travel FY06 and Beyond	214.0d	25-Nov-05*	29-Sep-06
27-H3010	129011.2.2.2	A-E Contract Procurement for Economic Data Collection	40.0d	16-Dec-05	14-Feb-06
27-H3015	129011.1.1	OC Travel FY06 and Beyond	214.0d	25-Nov-05*	29-Sep-06
27-H3030	129011.2.2.3	VE FSM Package	15.0d	31-Aug-06	21-Sep-06
27-H3040	129011.2.2.5	VE of AFB Package	15.0d	11-Jul-07	31-Jul-07
27-H3050	129011.2.9.1	Preparation of 1501 Pre App Mtg Summary	10.0d	28-Sep-07	12-Oct-07
27-H3080	129011.2	Chief's Report Submitted to ASA (CW)	15.0d	13-Aug-09	02-Sep-09
27-H3090	129011.2	Chief's Report	0.0d		12-Aug-09
27-H3100	129011.5.7	Prepare 1502 Application Package	43.0d	09-Nov-10	11-Jan-11
27-H3110	129011.5.7	Receive Request for Additional Information (RAI)/Complete...	0.0d		17-Mar-11
27-H3120	129011.5.7	Prepare and Submit Response to RAI	22.0d	18-Mar-11	18-Apr-11
27-H3130	129011.5.7	Corps Review of Draft Permit	10.0d	20-Jun-11	01-Jul-11
27-H3160	129011.2.2.2	A-E Contract Procurement (Inventory for Geotech)	40.0d	23-Nov-05*	23-Jan-06
27-H3170	129011.2.9	Filing of Final EIS	0.0d		05-Aug-09
27-H3180	129011.2.9	Start Public Review Draft PIR/NEPA	0.0d	10-Nov-08	
27-H3190	129011.5.7	Receipt of Intent and Public Notice	0.0d		01-Jul-11
27-H320	129011.2.9	Record of Decision (ROD) Signed	0.0d		03-Sep-09
27-H3200	129011.2.9.1	Assemble 1501 Submittal	10.0d	12-May-08	23-May-08
27-H3260	129011.2.3.1	USFWS Formulates Biological Opinion	66.0d	25-May-07	28-Aug-07
27-H3265	129011.2.6	Preliminary RE Planning Map of Alternatives	20.0d	28-Apr-06	25-May-06
27-H3270	129011.2.3.1	USFWS Delivers Biological Opinion	33.0d	29-Aug-07	16-Oct-07
27-H3275	129011.2.6	Physical Takings Analysis/non-Standard Estates	14.0d	18-Jan-08	07-Feb-08
27-H3280	129011.1.1	Travel EN FY05	86.0d	01-Jun-05 A	30-Sep-05 A
27-H3285	129011.2.6	Gross Appraisal	30.0d	11-Jun-08	23-Jul-08
27-H3290	129011.1.1	EN Travel FY06	230.0d	01-Nov-05*	29-Sep-06
27-H3295	129011.2.6	Relocations/Utility/Attorney's Opinion of Compensability	10.0d	18-Jan-08	01-Feb-08
27-H3300	129011.1.1	Travel PD FY05	86.0d	01-Jun-05 A	30-Sep-05 A
27-H3305	129011.2.6	Estate Analysis/Determination	14.0d	21-May-08	10-Jun-08
27-H3310	129011.1.1	Travel PD FY06	230.0d	01-Nov-05*	29-Sep-06
27-H3315	129011.2.6	Complete REP	12.0d	24-Jul-08	08-Aug-08
27-H3325	129011.2.6	Final REP	12.0d	11-Aug-08	26-Aug-08
27-H3330	129011.1.1	SFWMD Travel and Management FY06	250.0d	03-Oct-05 A	29-Sep-06
27-H3340	129011.2.3.1	USFWS Coordination Act Transfer Funds FY08	250.0d	01-Oct-07	26-Sep-08

Activity ID	WBS	Activity Name	Original Duration	Start	Finish
27-H3350	129011.2.3.1	USFWS Coordination Act Transfer Funds FY06	250.0d	03-Oct-05 A	29-Sep-06
27-H3355	129011.2.3.1	USFWS Coordination Act Transfer Funds FY07	250.0d	02-Oct-06	28-Sep-07
27-H340	129011.2.A	ASA(CW) Report Submitted to Congress	0.0d		05-Feb-10
27-H350	129011.2.A	President Signs Authorization	0.0d		08-Jul-10
27-H500	129011.5.2	P&S Initiated	0.0d		24-Mar-10
27-H580	129011.5.5	P&S BCOE Review	0.0d		15-Sep-11
27-H590	129011.5.5	P&S BCOE Certification	0.0d		23-Feb-12
27-H620	129011.6.7	PCA Submitted to HQ for Approval	0.0d		28-Oct-11
27-H650	129011.6.7	PCA Approved	0.0d		12-Dec-11
27-H690	129011.6.7	PCA Executed	0.0d		03-Jan-12
27-H790	129011.7.3	Real Estate Certification Received	0.0d		08-Feb-12
27-H950	129011.8.2	Construction Contract Advertised	0.0d		09-Apr-12
27-H960	129011.8.3	Construction Contract Awarded	0.0d		10-May-12
27-H970	129011.8.9	Construction Contract Physically Complete	0.0d		13-May-14
27-L200	129011.2.3	Notice of Intent to Prepare NEPA Issued	0.0d		06-Jan-06
27-L205	129011.2.3	NEPA Scoping Meeting	0.0d		09-Jan-06
27-L215	129011.2.2.3	Preliminary Screening of Alternatives Complete	0.0d		10-Jul-06
27-L230	129011.2.2.3	Feasibility Scoping Meeting (FSM)	0.0d		08-Nov-06
27-L235	129011.2.2.3	FSM Guidance Memorandum Received	0.0d		27-Nov-06
27-L245	129011.2.9.1	PIR/FS 1501 Pre-Application Meeting Complete	0.0d		27-Sep-07
27-L250	129011.2.9.1	PIR/FS 1501 Pre-Application Concurrence Received from F...	0.0d		26-Oct-07
27-L265	129011.2.2.3	Final Alternative Array Complete	0.0d		09-Aug-06
27-L280	129011.2.2.4	RECOVER Evaluation of Alternatives Complete	0.0d		22-Jun-07
27-L285	129011.2.3.1	Receive Draft FWCA Report	0.0d		30-Oct-07
27-L290	129011.2.2.6	Draft PIR/NEPA Report Complete	0.0d		24-Sep-08
27-L295	129011.2.9.1	Submittal Briefing with FDEP Complete	0.0d		26-Sep-08
27-L299	129011.5.7	Submit State WQC/Permits Application	0.0d		14-Feb-11
27-L325	129011.2.9	Draft PIR/NEPA Published in Federal Register	0.0d		24-Oct-08
27-L339	129011.2.3.1	Receive Biological Opinion	0.0d		16-Oct-07
27-L340	129011.2.3.1	Receive Final FWCA Report	0.0d		19-Dec-08
27-L350	129011.2.9.1	FS 1501 Submittal to FDEP	0.0d		01-Oct-08
27-L375	129011.2.9	Sponsor's Letter of Intent Received	0.0d		01-Apr-09
27-L380	129011.2.9.1	FS 1501 FDEP Approval	0.0d		04-Dec-08
27-L385	129011.2.9	Final PIR/NEPA Report Published in the Federal Register	0.0d		19-May-09
27-L400	129011.6.2	PCA Initiated	0.0d		29-Aug-11
27-L700	129011.5.5	P&S Final ITR and Certification	0.0d		10-Aug-11
27-P220	129011.2.2.2	Project Performance Measures Complete	0.0d		28-Mar-06
27-P700	129011.5.3	P&S 30% Technical Review Conference	0.0d		05-Nov-10
27-P705	129011.5.4	P&S 60% Technical Review Conference	0.0d		18-Mar-11
27-P805	129011.8.3	Construction Contract Notice to Proceed	0.0d		12-Jun-12
29-H2976	129011.1.1	Travel DP FY07 and Beyond	1913.0d	01-Nov-05	14-Jun-13

APPENDIX D: PROJECT SCHEDULE

TAB A – Gantt Chart for Current Phase

TAB B – Project Milestone Report

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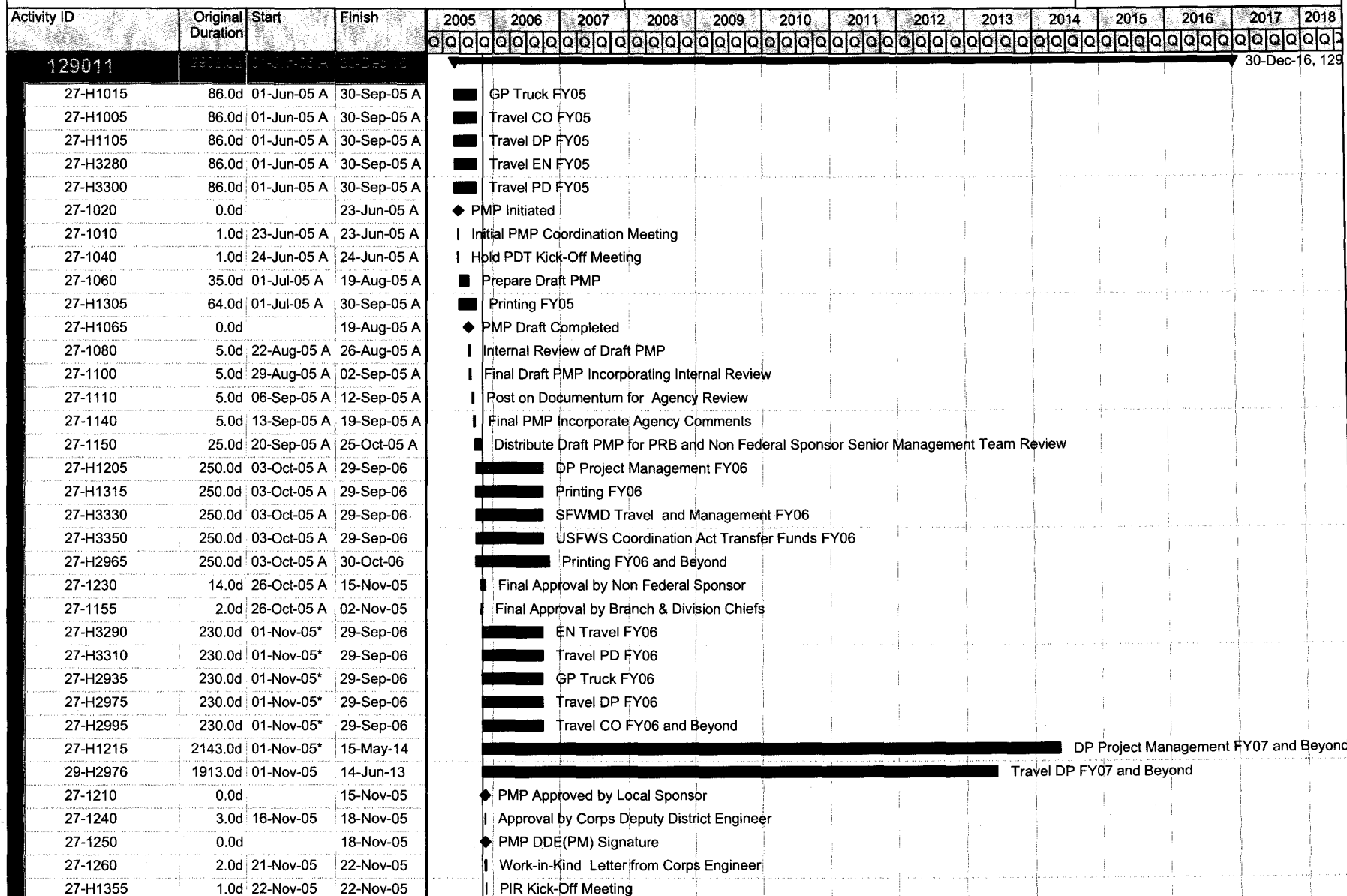
TAB A – Gantt Chart for Current Phase

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CERP Everglades National Park Seepage Management

Gantt Chart for Current Phase

08-Nov-05



Actual Work Critical Remaining Work
 Remaining Work Milestone

Activity ID	Original Duration	Start	Finish	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
				Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
27-1270	0.0d		22-Nov-05														
27-H100	0.0d		22-Nov-05														
27-H1350	1.0d	23-Nov-05	23-Nov-05														
27-H1360	15.0d	23-Nov-05	14-Dec-05														
27-H1540	44.0d	23-Nov-05	27-Jan-06														
27-H3160	40.0d	23-Nov-05*	23-Jan-06														
27-H2990	22.0d	25-Nov-05	27-Dec-05														
27-H1390	43.0d	25-Nov-05	27-Jan-06														
27-H1400	43.0d	25-Nov-05	27-Jan-06														
27-H1940	29.0d	25-Nov-05	06-Jan-06														
27-H1680	22.0d	25-Nov-05	27-Dec-05														
27-H3005	214.0d	25-Nov-05*	29-Sep-06														
27-H3015	214.0d	25-Nov-05*	29-Sep-06														
27-H1430	43.0d	15-Dec-05	16-Feb-06														
27-H3000	40.0d	16-Dec-05	14-Feb-06														
27-H3010	40.0d	16-Dec-05	14-Feb-06														
27-H2980	66.0d	28-Dec-05	03-Apr-06														
27-H1435	60.0d	30-Dec-05	28-Mar-06														
27-L200	0.0d		06-Jan-06														
27-H2780	35.0d	09-Jan-06	28-Feb-06														
27-H1950	1.0d	09-Jan-06	09-Jan-06														
27-H2770	35.0d	09-Jan-06	28-Feb-06														
27-H2785	35.0d	09-Jan-06	28-Feb-06														
27-L205	0.0d		09-Jan-06														
27-H1730	30.0d	10-Jan-06	22-Feb-06														
27-H1380	43.0d	24-Jan-06	24-Mar-06														
27-H2960	40.0d	30-Jan-06	27-Mar-06														
27-H1485	270.0d	30-Jan-06	26-Feb-07														
27-H1530	33.0d	07-Feb-06	24-Mar-06														
27-H1535	33.0d	07-Feb-06	24-Mar-06														
27-H2940	40.0d	14-Feb-06	11-Apr-06														
27-H1460	66.0d	15-Feb-06	18-May-06														
27-H1470	66.0d	15-Feb-06	18-May-06														
27-H1480	20.0d	01-Mar-06	28-Mar-06														
27-H2790	10.0d	01-Mar-06	14-Mar-06														
27-H1750	75.0d	01-Mar-06	14-Jun-06														

 Actual Work
  Critical Remaining Work

 Remaining Work
  Milestone

CERP Everglades National Park Seepage Management

Gantt Chart for Current Phase

08-Nov-05

Activity ID	Original Duration	Start	Finish	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
				Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
27-H2250	150.0d	01-Mar-06	29-Sep-06														
27-H2775	120.0d	01-Mar-06	17-Aug-06														
27-H1531	10.0d	13-Mar-06	24-Mar-06														
27-H1645	5.0d	27-Mar-06	31-Mar-06														
27-P220	0.0d		28-Mar-06														
27-H1560	22.0d	29-Mar-06	27-Apr-06														
27-H1481	10.0d	29-Mar-06	11-Apr-06														
27-H1450	66.0d	12-Apr-06	14-Jul-06														
27-H1482	10.0d	12-Apr-06	25-Apr-06														
27-H1490	66.0d	18-Apr-06	20-Jul-06														
27-H1483	180.0d	26-Apr-06	12-Jan-07														
27-H1572	43.0d	28-Apr-06	28-Jun-06														
27-H3265	20.0d	28-Apr-06	25-May-06														
27-H2720	30.0d	26-May-06	10-Jul-06														
27-H1675	10.0d	26-May-06	09-Jun-06														
27-H1475	5.0d	01-Jun-06*	07-Jun-06														
27-H1495	1.0d	08-Jun-06	08-Jun-06														
27-H1676	0.0d		09-Jun-06														
27-H2170	220.0d	15-Jun-06	01-May-07														
27-L215	0.0d		10-Jul-06														
27-H2760	22.0d	11-Jul-06	09-Aug-06														
27-H1510	129.0d	07-Aug-06	12-Feb-07														
27-L265	0.0d		09-Aug-06														
27-H1670	34.0d	10-Aug-06	27-Sep-06														
27-H2910	15.0d	10-Aug-06	30-Aug-06														
27-H1671	43.0d	10-Aug-06	11-Oct-06														
27-H2795	15.0d	18-Aug-06	08-Sep-06														
27-H3030	15.0d	31-Aug-06	21-Sep-06														
27-H1580	15.0d	31-Aug-06	21-Sep-06														
27-H1620	1.0d	22-Sep-06	22-Sep-06														
27-H1590	2.0d	25-Sep-06	26-Sep-06														
27-H2270	22.0d	27-Sep-06	27-Oct-06														
27-H2945	250.0d	02-Oct-06	28-Sep-07														
27-H2955	250.0d	02-Oct-06*	28-Sep-07														
27-H2985	250.0d	02-Oct-06*	28-Sep-07														
27-H3355	250.0d	02-Oct-06	28-Sep-07														

 Actual Work
  Critical Remaining Work
 Remaining Work
  Milestone

Activity ID	Original Duration	Start	Finish	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
				Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
27-H2280	6.0d	30-Oct-06	06-Nov-06														
27-H1600	2.0d	07-Nov-06	08-Nov-06														
27-H1640	86.0d	08-Nov-06	15-Mar-07														
27-H1520	86.0d	08-Nov-06	15-Mar-07														
27-H1685	45.0d	08-Nov-06	16-Jan-07														
27-L230	0.0d		08-Nov-06														
27-H1610	11.0d	09-Nov-06	27-Nov-06														
27-H1500	65.0d	09-Nov-06	14-Feb-07														
27-H1660	86.0d	16-Nov-06	22-Mar-07														
27-L235	0.0d		27-Nov-06														
27-H1650	66.0d	24-Jan-07	26-Apr-07														
27-H1655	66.0d	24-Jan-07	26-Apr-07														
27-H1665	66.0d	24-Jan-07	26-Apr-07														
27-H1570	10.0d	02-Mar-07	15-Mar-07														
27-H1710	11.0d	23-Mar-07	06-Apr-07														
27-H1690	45.0d	20-Apr-07	22-Jun-07														
27-H1960	20.0d	27-Apr-07	24-May-07														
27-H1700	15.0d	25-May-07	15-Jun-07														
27-H3260	66.0d	25-May-07	28-Aug-07														
27-H2920	30.0d	29-May-07	10-Jul-07														
27-H2925	30.0d	29-May-07	10-Jul-07														
27-H1770	15.0d	19-Jun-07	10-Jul-07														
27-L280	0.0d		22-Jun-07														
27-H1720	11.0d	25-Jun-07	10-Jul-07														
27-H1990	10.0d	11-Jul-07	24-Jul-07														
27-H3040	15.0d	11-Jul-07	31-Jul-07														
27-H2000	10.0d	25-Jul-07	07-Aug-07														
27-H1800	2.0d	01-Aug-07	02-Aug-07														
27-H2290	22.0d	03-Aug-07	04-Sep-07														
27-H2070	32.0d	13-Aug-07	26-Sep-07														
27-H3270	33.0d	29-Aug-07	16-Oct-07														
27-H2300	5.0d	05-Sep-07	11-Sep-07														
27-H1810	1.0d	12-Sep-07	12-Sep-07														
27-H124	0.0d		12-Sep-07														
27-H2090	52.0d	13-Sep-07	28-Nov-07														
27-H1820	10.0d	13-Sep-07	26-Sep-07														

 Actual Work
  Critical Remaining Work
 Remaining Work
  Milestone

CERP Everglades National Park Seepage Management

Gantt Chart for Current Phase

08-Nov-05

Activity ID	Original Duration	Start	Finish	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
27-H2160	10.0d	13-Sep-07	26-Sep-07														
27-H2080	86.0d	13-Sep-07	17-Jan-08														
27-H126	0.0d		26-Sep-07														
27-H2180	10.0d	27-Sep-07	11-Oct-07														
27-H2970	40.0d	27-Sep-07	26-Nov-07														
27-H2950	40.0d	27-Sep-07	26-Nov-07														
27-H1830	1.0d	27-Sep-07	27-Sep-07														
27-H2800	45.0d	27-Sep-07	03-Dec-07														
27-H2961	30.0d	27-Sep-07	08-Nov-07														
27-H2875	1115.0d	27-Sep-07	08-Mar-12														
27-L245	0.0d		27-Sep-07														
27-H3050	10.0d	28-Sep-07	12-Oct-07														
27-H3340	250.0d	01-Oct-07	26-Sep-08														
27-H2190	10.0d	12-Oct-07	25-Oct-07														
27-H2100	86.0d	12-Oct-07	15-Feb-08														
27-H1840	10.0d	15-Oct-07	26-Oct-07														
27-L339	0.0d		16-Oct-07														
27-H1970	10.0d	17-Oct-07	30-Oct-07														
27-L250	0.0d		26-Oct-07														
27-L285	0.0d		30-Oct-07														
27-H2040	66.0d	27-Nov-07	03-Mar-08														
27-H2010	66.0d	27-Nov-07	03-Mar-08														
27-H2095	22.0d	29-Nov-07	31-Dec-07														
27-H2810	20.0d	29-Nov-07	27-Dec-07														
27-H2030	65.0d	27-Dec-07	31-Mar-08														
27-H2820	20.0d	28-Dec-07	28-Jan-08														
27-H2060	86.0d	02-Jan-08	02-May-08														
27-H3275	14.0d	18-Jan-08	07-Feb-08														
27-H3295	10.0d	18-Jan-08	01-Feb-08														
27-H2085	86.0d	18-Jan-08	20-May-08														
27-H2110	20.0d	19-Feb-08	17-Mar-08														
27-H2120	20.0d	19-Feb-08	17-Mar-08														
27-H2130	45.0d	18-Mar-08	19-May-08														
27-H2150	22.0d	03-Apr-08	02-May-08														
27-H1330	22.0d	10-Apr-08	09-May-08														
27-H2140	11.0d	25-Apr-08	09-May-08														

- Non Federal Sponsor Coordination
- Prepare Real Estate Appendix
- ◆ AFB Guidance Memorandum Received
- Federal Permit(s) NPDES Construction Activities Application by Local Sponsor
- Obtain Real Estate Rights of Entry
- A-E Contract(s) Procurement (Survey & Geotech)
- PIR/FS 1501 Pre-Application Meeting (Reasonable Certainty)
- Document Environmental Law Compliance
- Draft Water Control Plan
- Pre-construction, Engineering and Design (PED)
- ◆ PIR/FS 1501 Pre-Application Meeting Complete
- Preparation of 1501 Pre App Mtg Summary
- USFWS Coordination Act Transfer Funds FY08
- Federal Permits Issued
- Develop Draft Project Operating Manual
- 1501 Pre App Mtg Summary Reviewed by FDEP
- ◆ Receive Biological Opinion
- Draft CAR received to be used in draft NEPA
- ◆ PIR/FS 1501 Pre-Application Concurrence Received from FDEP
- ◆ Receive Draft FWCA Report
- Perform SAP Geotech Analysis
- Obtain SAP Geotechnical & Survey Data
- Next Added Increment Analysis
- Prepare Env Effects, Cum Effects, Tradeoff Discussion for SAP
- Perform SAP Civil/Structural & M&E Analysis
- Incorporate all NEPA into PIR and Review for consistency
- Develop Project Monitoring Plan
- Physical Takings Analysis/non-Standard Estates
- Relocations/Utility/Attorney's Opinion of Compensability
- Prepare Planning Maps
- Quantify Water Made Available
- Savings Analysis
- Identify Water to be Reserved
- Prepare MCASES Cost Estimate
- Compile (Preliminary) Draft PIR/NEPA
- Develop Implementation Plan

■ Actual Work ■ Critical Remaining Work
 ■ Remaining Work ◆ Milestone

Gantt Chart for Current Phase

08-Nov-05

 Actual Work  Critical Remaining Work
 Remaining Work  Milestone

CERP Everglades National Park Seepage Management

Gantt Chart for Current Phase

08-Nov-05

Activity ID	Original Duration	Start	Finish	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
				Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
27-H1135	10.0d	22-Jan-09	05-Feb-09														
27-H2200	15.0d	26-Jan-09	13-Feb-09														
27-H1145	1.0d	05-Feb-09	06-Feb-09														
27-H1155	1.0d	06-Feb-09	09-Feb-09														
27-H1165	5.0d	09-Feb-09	17-Feb-09														
27-H1150	22.0d	17-Feb-09	18-Mar-09														
27-H1175	1.0d	17-Feb-09	18-Feb-09														
27-H1160	10.0d	19-Mar-09	01-Apr-09														
27-L375	0.0d		01-Apr-09														
27-H1170	10.0d	02-Apr-09	15-Apr-09														
27-H165	0.0d		15-Apr-09														
27-H1180	5.0d	16-Apr-09	22-Apr-09														
27-H170	0.0d		22-Apr-09														
27-H2840	25.0d	23-Apr-09	28-May-09														
27-H1190	5.0d	23-Apr-09	29-Apr-09														
27-H2215	20.0d	23-Apr-09	20-May-09														
27-H1200	4.0d	30-Apr-09	05-May-09														
27-H1210	10.0d	06-May-09	19-May-09														
27-L385	0.0d		19-May-09														
27-H1220	22.0d	20-May-09	19-Jun-09														
27-H2850	25.0d	29-May-09	02-Jul-09														
27-H180	0.0d		19-Jun-09														
27-H1230	20.0d	22-Jun-09	20-Jul-09														
27-H2860	90.0d	06-Jul-09	10-Nov-09														
27-H2870	90.0d	06-Jul-09	10-Nov-09														
27-H1240	5.0d	14-Jul-09	20-Jul-09														
27-H1250	7.0d	21-Jul-09	29-Jul-09														
27-H2240	5.0d	30-Jul-09	05-Aug-09														
27-H3170	0.0d		05-Aug-09														
27-H1260	5.0d	06-Aug-09	12-Aug-09														
27-H3090	0.0d		12-Aug-09														
27-H3080	15.0d	13-Aug-09	02-Sep-09														
27-H2640	15.0d	03-Sep-09	24-Sep-09														
27-H2210	1.0d	03-Sep-09	03-Sep-09														
27-H1270	30.0d	03-Sep-09	16-Oct-09														
27-H320	0.0d		03-Sep-09														

- Transmit Final PIR to SAD
- In-House Review of Final PIR/NEPA
- DE Briefing to SAD Commander
- MSC Notice to HQ
- SAD Transmittal of Final PIR to HQ
- ITR/Legal Review of Final PIR/NEPA
- Civil Works Board Meeting
- NFS Letter of Support and Financial Capability Statement
- Sponsor's Letter of Intent Received
- Prepare Final PIR/NEPA for Submittal to MSC
- Submit Final PIR/NEPA Report to MSC
- DE Signature
- MSC Commander's Public Notice (Complete PIR)
- Develop Scope of P&S Exploration Plan
- State and Agency Letters Signed and Received by District
- Draft ROD
- Mail Letters and Draft Final Report
- Publish in Federal Register
- Final PIR/NEPA Report Published in the Federal Register
- State, Agency and Public Review
- Develop P&S Survey/Geotech Scope of Work
- Washington Level Agency Review/Public Review Complete
- Respond to State, Agency and Public Comments
- Perform P&S Topo Survey
- Perform P&S Geotech Investigation
- HQ/MSD Review Conference
- Policy Review Documentation
- Filing of Final PIR/NEPA Document
- Filing of Final EIS
- Chief's Report
- Chief's Report
- Chief's Report Submitted to ASA (CW)
- SFWMD GB Grants Rule Development Authority
- ROD Signed
- ASA(CW) Review
- Record of Decision (ROD) Signed

Actual Work Critical Remaining Work
 Remaining Work Milestone

08-Nov-05

 Actual Work  Critical Remaining Work
 Remaining Work Milestone

CERP Everglades National Park Seepage Management

Gantt Chart for Current Phase

08-Nov-05

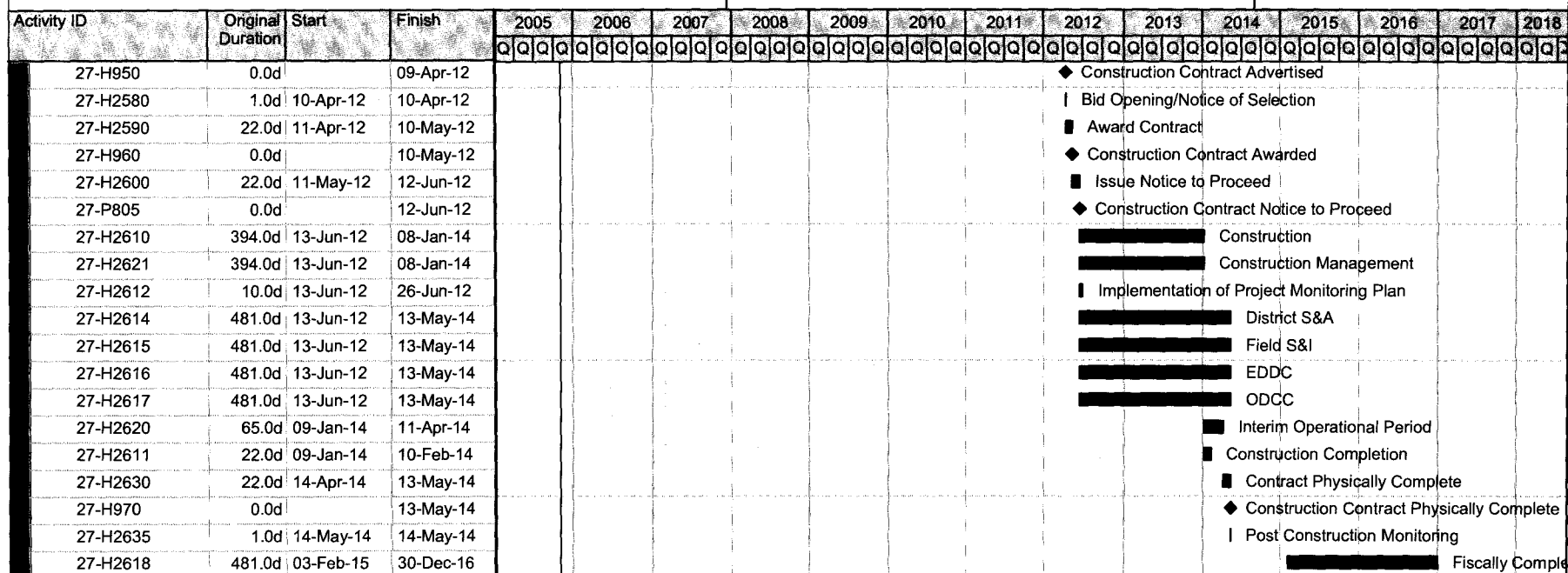
Activity ID	Original Duration	Start	Finish																
				2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018		
27-H3130	10.0d	20-Jun-11	01-Jul-11	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q		
27-H3190	0.0d		01-Jul-11																
27-H2490	43.0d	08-Jul-11	07-Sep-11																
27-H2510	14.0d	08-Jul-11	27-Jul-11																
27-H1920	22.0d	21-Jul-11	19-Aug-11																
27-H2890	10.0d	28-Jul-11	10-Aug-11																
27-L700	0.0d		10-Aug-11																
27-H2520	25.0d	11-Aug-11	15-Sep-11																
27-H2750	5.0d	22-Aug-11	26-Aug-11																
27-H300	0.0d		26-Aug-11																
27-H1930	1.0d	29-Aug-11	29-Aug-11																
27-L400	0.0d		29-Aug-11																
27-H2350	15.0d	30-Aug-11	20-Sep-11																
27-H2500	22.0d	08-Sep-11	07-Oct-11																
27-H580	0.0d		15-Sep-11																
27-H2530	22.0d	16-Sep-11	18-Oct-11																
27-H2512	10.0d	16-Sep-11	29-Sep-11																
27-H2360	22.0d	21-Sep-11	21-Oct-11																
27-H2513	6.0d	30-Sep-11	07-Oct-11																
27-H2540	19.0d	19-Oct-11	15-Nov-11																
27-H2370	5.0d	24-Oct-11	28-Oct-11																
27-H620	0.0d		28-Oct-11																
27-H2380	29.0d	31-Oct-11	12-Dec-11																
27-H650	0.0d		12-Dec-11																
27-H2390	14.0d	13-Dec-11	03-Jan-12																
27-H690	0.0d		03-Jan-12																
27-H2400	5.0d	04-Jan-12	10-Jan-12																
27-H2405	10.0d	11-Jan-12	25-Jan-12																
27-H2401	0.0d		25-Jan-12																
27-H2410	5.0d	26-Jan-12	01-Feb-12																
27-H2420	5.0d	02-Feb-12	08-Feb-12																
27-H790	0.0d		08-Feb-12																
27-H2550	10.0d	09-Feb-12	23-Feb-12																
27-H590	0.0d		23-Feb-12																
27-H2560	10.0d	24-Feb-12	08-Mar-12																
27-H2570	22.0d	09-Mar-12	09-Apr-12																

 Actual Work
  Critical Remaining Work
  Remaining Work
  Milestone

CERP Everglades National Park Seepage Management

Gantt Chart for Current Phase

08-Nov-05



Actual Work
 Critical Remaining Work
 Remaining Work
 ◆ Milestone

TAB B – Project Milestone Report

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Activity ID	Activity Name	Finish
27-1020	PMP Initiated	23-Jun-05 A
27-H1065	PMP Draft Completed	19-Aug-05 A
27-1210	PMP Approved by Local Sponsor	15-Nov-05
27-1250	PMP DDE(PM) Signature	18-Nov-05
27-1270	Work-in-Kind Letter Signed by District Engineer	22-Nov-05
27-H100	Initiate PIR	22-Nov-05
27-L200	Notice of Intent to Prepare NEPA Issued	06-Jan-06
27-L205	NEPA Scoping Meeting	09-Jan-06
27-P220	Project Performance Measures Complete	28-Mar-06
27-H1676	RE Aquisition Initiated	09-Jun-06
27-L215	Preliminary Screening of Alternatives Complete	10-Jul-06
27-L265	Final Alternative Array Complete	09-Aug-06
27-L230	Feasibility Scoping Meeting (FSM)	08-Nov-06
27-L235	FSM Guidance Memorandum Received	27-Nov-06
27-L280	RECOVER Evaluation of Alternatives Complete	22-Jun-07
27-H124	Alternative Formulation Briefing (AFB)	12-Sep-07
27-H126	AFB Guidance Memorandum Received	26-Sep-07
27-L245	PIR/FS 1501 Pre-Application Meeting Complete	27-Sep-07
27-L339	Receive Biological Opinion	16-Oct-07
27-L250	PIR/FS 1501 Pre-Application Concurrence Received from FDEP	26-Oct-07
27-L285	Receive Draft FWCA Report	30-Oct-07
27-L290	Draft PIR/NEPA Report Complete	24-Sep-08
27-L295	Submittal Briefing with FDEP Complete	26-Sep-08
27-L350	FS 1501 Submittal to FDEP	01-Oct-08
27-L325	Draft PIR/NEPA Published in Federal Register	24-Oct-08
27-H3180	Start Public Review Draft PIR/NEPA	
27-L380	FS 1501 FDEP Approval	04-Dec-08
27-L340	Receive Final FWCA Report	19-Dec-08
27-H130	Complete PIR Review Conference	22-Dec-08
27-H140	Project Guidance Memorandum (PGM) Received	07-Jan-09
27-L375	Sponsor's Letter of Intent Received	01-Apr-09
27-H165	Submit Final PIR/NEPA Report to MSC	15-Apr-09
27-H170	MSC Commander's Public Notice (Complete PIR)	22-Apr-09
27-L385	Final PIR/NEPA Report Published in the Federal Register	19-May-09
27-H180	Washington Level Agency Review/Public Review Complete	19-Jun-09
27-H3170	Filing of Final EIS	05-Aug-09
27-H3090	Chief's Report	12-Aug-09
27-H320	Record of Decision (ROD) Signed	03-Sep-09
27-H175	ASA(CW) Memorandum to OMB	30-Oct-09
27-H340	ASA(CW) Report Submitted to Congress	05-Feb-10
27-H500	P&S Initiated	24-Mar-10
27-H350	President Signs Authorization	08-Jul-10
27-P700	P&S 30% Technical Review Conference	05-Nov-10

Activity ID	Activity Name	Finish
27-H2466	VE 30% P&S Package Complete	01-Dec-10
27-L299	Submit State WQC/Permits Application	14-Feb-11
27-H3110	Receive Request for Additional Information (RAI)/Completeness Letter	17-Mar-11
27-P705	P&S 60% Technical Review Conference	18-Mar-11
27-H3190	Receipt of Intent and Public Notice	01-Jul-11
27-L700	P&S Final ITR and Certification	10-Aug-11
27-H300	State WQC/Permits Received	26-Aug-11
27-L400	PCA Initiated	29-Aug-11
27-H580	P&S BCOE Review	15-Sep-11
27-H620	PCA Submitted to HQ for Approval	28-Oct-11
27-H650	PCA Approved	12-Dec-11
27-H690	PCA Executed	03-Jan-12
27-H2401	RE Acquisition Complete	25-Jan-12
27-H790	Real Estate Certification Received	08-Feb-12
27-H590	P&S BCOE Certification	23-Feb-12
27-H950	Construction Contract Advertised	09-Apr-12
27-H960	Construction Contract Awarded	10-May-12
27-P805	Construction Contract Notice to Proceed	12-Jun-12
27-H970	Construction Contract Physically Complete	13-May-14

APPENDIX E: PROJECT COST ESTIMATE AND BUDGET

TAB A – Total Project Cost Summary

TAB B – Fully Funded Cost Estimate (Post PIR)

TAB C – Cost Listing by Agency/Organizational Unit

TAB D – Projected Annual Budget

TAB E – Projected Cash Flow Curve

TAB F – Contingency Summary and Status

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TAB A – Total Project Cost Summary

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129011.2.1 PM	\$ 0.00		
129011.2.2 Plan Formulation	\$ 2,190,067.36	22-Nov-05	07-Jan-09
129011.2.2.1 Goals and Objectives	\$ 80,598.36	22-Nov-05	14-Dec-05
129011.2.2.2 Existing and Future Conditions	\$ 730,830.36	23-Nov-05	15-Mar-07
129011.2.2.3 Alternative Plan Formulation	\$ 404,061.52	29-Mar-06	06-Apr-07
129011.2.2.4 Alternative Plan Evaluation	\$ 131,813.92	08-Nov-06	22-Jun-07
129011.2.2.5 Alternative Plan Comparison	\$ 216,816.88	25-May-07	26-Sep-07
129011.2.2.6 Recommended Plan	\$ 625,946.32	11-Jul-07	07-Jan-09
129011.2.2.6.1 Project Assurances Determinations	\$ 80,093.44	19-Feb-08	19-May-08
129011.2.3 NEPA Compliance	\$ 648,420.00	03-Oct-05 A	19-Dec-08
129011.2.3.1 USFWS Coordination	\$ 369,720.00	03-Oct-05 A	19-Dec-08
129011.2.4 Socio-Econ. Analysis Appendix	\$ 14,000.00	30-Jan-06	28-Feb-07
129011.2.5 Engineering & Design Appendix	\$ 587,215.76	07-Feb-06	08-Nov-07
129011.2.5.1 Engineering Studies & Investigations	\$ 580,815.76	07-Feb-06	15-Mar-07
129011.2.5.1.1 H&H Studies	\$ 304,175.76	01-Mar-06	14-Feb-07
129011.2.5.1.2 Environmental Assessment Support	\$ 0.00		
129011.2.5.1.3 Surveying and Mapping	\$ 0.00		
129011.2.5.1.4 Geotechnical	\$ 170,000.00	12-Apr-06	14-Jul-06
129011.2.5.1.5 Design of Alternatives	\$ 98,140.00	08-Nov-06	15-Mar-07
129011.2.5.1.6 HTRW Assessment	\$ 8,500.00	07-Feb-06	31-Mar-06
129011.2.5.2 Cost Estimate	\$ 3,400.00	10-Aug-06	11-Oct-06
129011.2.5.3 Draft Water Control Plan	\$ 3,000.00	27-Sep-07	08-Nov-07
129011.2.6 Real Estate Analysis Appendix	\$ 244,995.00	30-Jan-06	28-Aug-08
129011.2.7 Project Monitoring Plan	\$ 68,000.00	02-Jan-08	02-May-08
129011.2.8 Project RECOVER Tasks	\$ 0.00		
129011.2.9 PIR Approval	\$ 161,831.72	27-Sep-07	30-Oct-09
129011.2.9.1 State Approval Process	\$ 12,000.00	27-Sep-07	18-Dec-08
129011.2.A Project Authorization	\$ 0.00	02-Nov-09	08-Jul-10
129011.2.B PIR Close-Out	\$ 0.00		

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TAB B – Fully Funded Cost Estimate (Post PIR Only)

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TAB C – Cost Listing by Agency/Organizational Unit

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TABLE E-C-1: COST LISTING BY AGENCY / ORGANIZATIONAL UNIT

Work Phase	USACE	SFWMD
Project Management	\$822,892	\$490
PMP	\$109,000	\$7,350
PIR	\$3,622,855	\$291,675
Water Reservations	\$0	\$46,800
Plans & Specs	\$9,092,600	\$33,200
PCA	\$0	\$7,200
Real Estate	\$0	\$166,344,000
Construction	\$172,576,000	\$40,200
PIM	\$10,000	\$10,000
Total Cost	\$186,233,347	\$166,780,915

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TAB D – Projected Annual Budget

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App E, Tab D Projected Annual Budget by Resources

WBS 129011 CERP Everglades National Park Seepage Management

Resource ID	FY2004-2005	FY2005-2006	FY2006-2007	FY2007-2008	FY2008-2009	FY2009-2010	FY2010-2011	FY2011-2012	FY2012-2013	FY2013-2014	Total
CCO					\$ 10,000.00						\$ 10,000.00
CO										\$ 10,000.00	\$ 10,000.00
CO-CQ		\$ 2,400.00									\$ 2,400.00
CO-CS		\$ 12,000.00	\$ 10,399.57	\$ 8,600.00	\$ 799.93			\$ 3,621,959.39	\$ 11,961,997.46	\$ 3,193,043.15	\$ 18,808,799.49
CO-R	\$ 2,726.66										\$ 2,726.66
CT-C		\$ 20,000.00									\$ 20,000.00
CT-S	\$ 1,000.00	\$ 3,000.00									\$ 4,000.00
DP-E	\$ 15,973.35	\$ 218,831.08	\$ 60,685.95	\$ 61,171.44	\$ 61,928.70	\$ 60,928.70	\$ 61,171.44	\$ 60,685.95	\$ 60,928.70	\$ 37,868.04	\$ 700,173.35
EN-C	\$ 4,000.00	\$ 4,446.51	\$ 92,053.22	\$ 60,000.00	\$ 3,999.63		\$ 1,600.00				\$ 166,099.36
EN-DL	\$ 4,000.00	\$ 51,900.00	\$ 47,402.26	\$ 2,041,539.01	\$ 2,033,437.67	\$ 2,033,437.67	\$ 2,045,039.01	\$ 866,843.95			\$ 9,123,599.57
EN-DM		\$ 3,500.00					\$ 3,500.00				\$ 7,000.00
EN-DS	\$ 3,000.00	\$ 6,400.00	\$ 999.73				\$ 1,600.00				\$ 11,999.73
EN-DT			\$ 375.00	\$ 22,125.00							\$ 22,500.00
EN-G		\$ 6,708.00									\$ 6,708.00
EN-GE	\$ 7,000.00	\$ 70,000.00	\$ 3,999.73	\$ 36,000.00							\$ 116,999.73
EN-GG	\$ 23,000.00	\$ 77,223.00	\$ 50,449.73	\$ 76,750.00	\$ 6,499.91						\$ 233,922.64
EN-GS	\$ 6,000.00	\$ 45,000.00	\$ 48,000.00				\$ 3,500.00				\$ 102,500.00
EN-H		\$ 5,511.00									\$ 5,511.00
EN-HH	\$ 1,397.51	\$ 10,616.89	\$ 68,295.11	\$ 19,712.00	\$ 7,487.77		\$ 1,600.00				\$ 109,109.28
EN-HI	\$ 1,000.00	\$ 186,430.18	\$ 226,287.58	\$ 83,970.33	\$ 5,009.40						\$ 502,697.48
EN-HW	\$ 0.02	\$ 14,576.00	\$ 1,197.00	\$ 21,490.00	\$ 1,366.00						\$ 38,629.02
EN-T	\$ 8,000.00	\$ 21,700.00	\$ 3,400.00				\$ 18,200.00				\$ 51,300.00
EN-TI		\$ 5,400.00									\$ 5,400.00
OC	\$ 1,288.00	\$ 1,312.00			\$ 800.00						\$ 3,400.00
OC-RE	\$ 500.00	\$ 1,000.00	\$ 1,046.51	\$ 26,453.49							\$ 29,000.00
PD-D	\$ 2,000.00	\$ 61,449.62	\$ 37,318.97	\$ 3,000.00	\$ 13,999.82						\$ 117,768.41
PD-ES	\$ 13,000.00	\$ 91,000.00	\$ 40,588.08	\$ 28,411.11	\$ 20,000.00						\$ 192,999.19
K3K0BH0-PD WATER QUA		\$ 27,000.00									\$ 27,000.00
PD-P		\$ 141,300.00	\$ 50,000.00	\$ 50,000.00	\$ 44,500.00						\$ 285,800.00

App E, Tab D - Projected Annual Budget by Resources

WBS 129011 CERP Everglades National Park Seepage Management

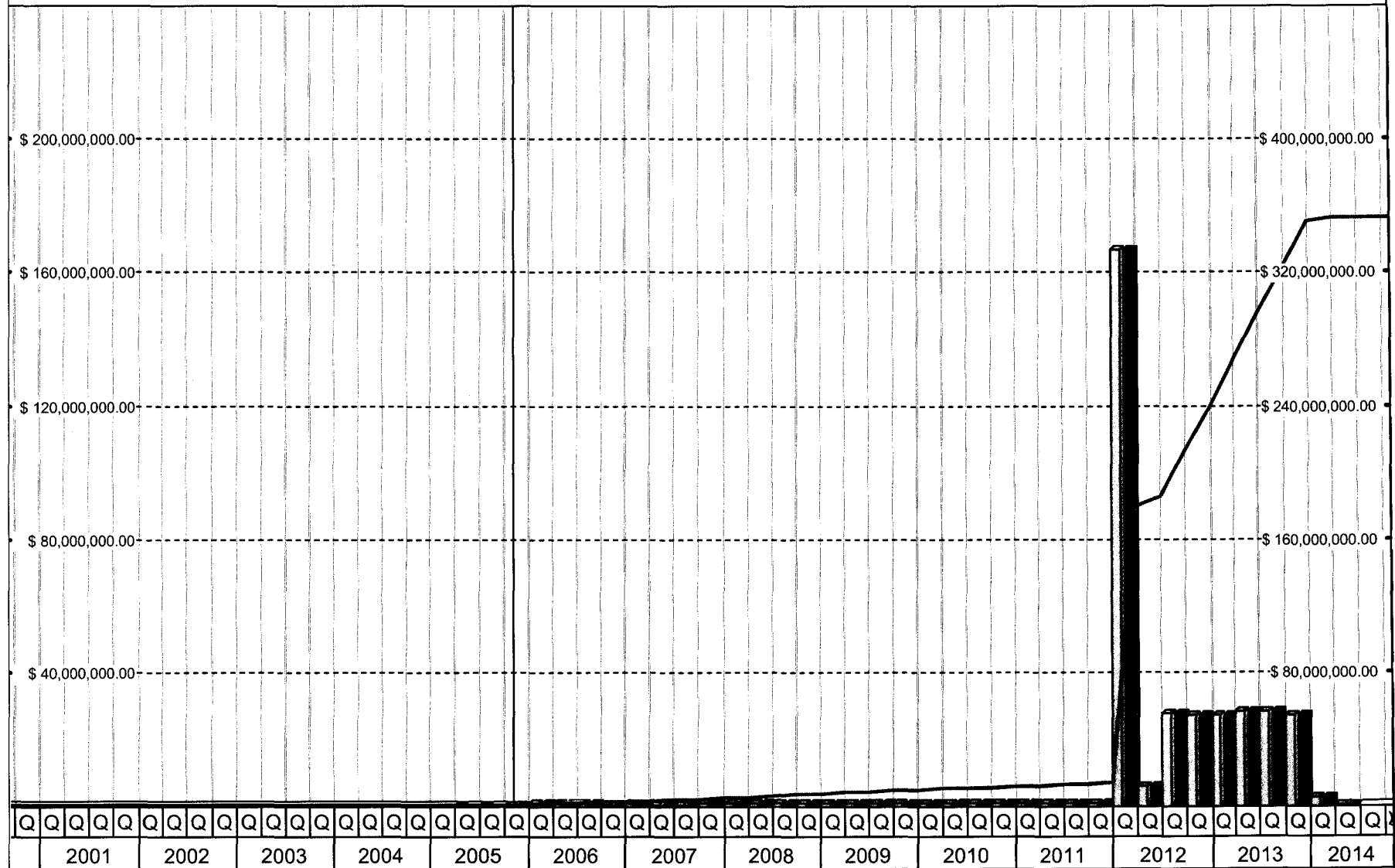
Resource ID	FY2004-2005	FY2005-2006	FY2006-2007	FY2007-2008	FY2008-2009	FY2009-2010	FY2010-2011	FY2011-2012	FY2012-2013	FY2013-2014	Total
PD-PN	\$ 9,102.49	\$ 14,000.00	\$ 88,299.19	\$ 71,000.00	\$ 69,599.73		\$ 1,600.00				\$ 253,601.40
PD-R	\$ 3,600.00										\$ 3,600.00
RE-P	\$ 100.00	\$ 15,000.00		\$ 12,000.00							\$ 27,100.00
RE-S	\$ 1,000.00	\$ 69,000.00	\$ 13,779.07	\$ 82,920.93	\$ 1,200.00						\$ 167,900.00
AESVCS		\$ 393,000.00		\$ 113,000.00			\$ 24,500.00				\$ 530,500.00
CONSTSVCS								\$ 29,666,812.18	\$ 97,978,550.76	\$ 26,153,637.06	\$ 153,799,000.00
GIS		\$ 6,382.40	\$ 5,805.60	\$ 17,997.36							\$ 30,185.36
GSAVEH		\$ 512.00	\$ 500.00								\$ 1,012.00
GTRUCK-GP1	\$ 80.00										\$ 80.00
OTHCONSVC		\$ 150,000.00									\$ 150,000.00
SHOP/FACIL	\$ 500.00	\$ 32,200.00									\$ 32,700.00
TRAVEL	\$ 9,200.00	\$ 55,306.90	\$ 48,920.54	\$ 3,951.91	\$ 3,936.23	\$ 3,936.23	\$ 3,951.91	\$ 3,920.54	\$ 2,775.74		\$ 135,900.00
WKBOTHCOE		\$ 24,500.00									\$ 24,500.00
WKBOTHFED		\$ 152,153.00	\$ 113,028.00	\$ 94,039.00							\$ 359,220.00
NAMED EMP	\$ 5,166.00	\$ 173,899.00	\$ 70,458.49	\$ 40,391.18	\$ 22,500.00	\$ 37,527.91	\$ 36,008.46	\$ 19,372.77	\$ 9,938.07	\$ 36,652.79	\$ 451,914.68
5550								\$ 166,329,000.00			\$ 166,329,000.00

Total

\$ 122,634.03 \$ 2,174,657.58 \$ 1,083,289.33 \$ 2,974,522.76 \$ 2,307,064.77 \$ 2,135,830.50 \$ 2,202,270.82 \$ 29,431,201.03 \$ 353,014,256.35
200,568,594.79 110,014,190.74

TAB E – Project Cash Flow Curve

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Total Cost

- ☐ Budgeted
- ☒ Actual
- ☐ Remaining

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TAB F – Contingency Summary and Status

Once CERP guidance and standardized report instructions are developed and approved, the Contingency Summary and Status Report will be placed in Appendix E, Tab F.

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APPENDIX F: FUNCTIONAL AREA PLANS

TAB A – Activities by Agency, Organizational Unit & Resource

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TAB A – Activities by Agency, Organizational Unit & Resource

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App F Tab A - Resource and Role Assignments

WBS 129011 CERP Everglades National Park Seepage Management

Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
CCO						
CCO	27-H2830	Public Workshop on Draft PIR	-808.0d	10-Nov-08	12-Nov-08	\$ 10,000.00
Resource Sub Total						\$ 10,000.00
CO						
CO	27-H2635	Post Construction Monitoring	-148.0d	14-May-14	14-May-14	\$ 10,000.00
Resource Sub Total						\$ 10,000.00
CO-CQ						
CO-CQ	27-H1620	ITR Meeting with PDT to prepare for FSM	-683.0d	22-Sep-06	22-Sep-06	\$ 2,400.00
Resource Sub Total						\$ 2,400.00
CO-CS						
CO-CS	27-H2621	Construction Management	-765.0d	13-Jun-12	08-Jan-14	\$ 18,777,000.00
CO-CS	27-H1560	Identification of Management Measures	-704.0d	29-Mar-06	27-Apr-06	\$ 1,000.00
CO-CS	27-H1572	Define Components & Create Array of Alternatives	-697.0d	28-Apr-06	28-Jun-06	\$ 1,000.00
CO-CS	27-H2760	Determine Final Alternative Array	-704.0d	11-Jul-06	09-Aug-06	\$ 1,000.00
CO-CS	27-H1620	ITR Meeting with PDT to prepare for FSM	-683.0d	22-Sep-06	22-Sep-06	\$ 1,600.00
CO-CS	27-H2910	Prepare FSM Package	-683.0d	10-Aug-06	30-Aug-06	\$ 1,600.00
CO-CS	27-H1360	Identify Problems, Opportunities, Objectives & Constraints	-808.0d	23-Nov-05	14-Dec-05	\$ 1,400.00
CO-CS	27-H1430	Identify Performance Measures	-808.0d	15-Dec-05	16-Feb-06	\$ 2,400.00
CO-CS	27-H1460	Water Quality / Ecologic Data Collection	-737.0d	15-Feb-06	18-May-06	\$ 2,000.00
CO-CS	27-H2280	SAJ Response to HQ Policy Review Comments	-683.0d	30-Oct-06	06-Nov-06	\$ 1,000.00
CO-CS	27-H1600	Feasibility Scoping Meeting	-683.0d	07-Nov-06	08-Nov-06	\$ 1,600.00
CO-CS	27-H1650	Model & Evaluate Alternatives (compare with & without plan)	-808.0d	24-Jan-07	26-Apr-07	\$ 5,000.00
CO-CS	27-H1720	Compare Alternative Plans & Select Tentatively Selected Plan	-808.0d	25-Jun-07	10-Jul-07	\$ 1,000.00

App F Tab A - Resource and Role Assignments

WBS 129011 CERP Everglades National Park Seepage Management

Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
CO-CS	27-H3040	VE of AFB Package	-808.0d	11-Jul-07	31-Jul-07	\$ 1,000.00
CO-CS	27-H1810	AFB Meeting	-808.0d	12-Sep-07	12-Sep-07	\$ 800.00
CO-CS	27-H2030	Perform SAP Civil/Structural & M&E Analysis	-743.0d	27-Dec-07	31-Mar-08	\$ 3,000.00
CO-CS	27-H2140	Develop Implementation Plan	-745.0d	25-Apr-08	09-May-08	\$ 800.00
CO-CS	27-H1340	In-house Review of Draft PIR/NEPA	-745.0d	12-May-08	23-May-08	\$ 800.00
CO-CS	27-H1000	In Progress Review	-798.5d	16-Dec-08	22-Dec-08	\$ 800.00
CO-CS	27-H2060	Develop Project Monitoring Plan	-745.0d	02-Jan-08	02-May-08	\$ 4,000.00
Resource Sub Total						\$ 18,808,800.00
CO-R						
CO-R	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 1,600.00
CO-R	27-1010	Initial PMP Coordination Meeting		23-Jun-05 A	23-Jun-05 A	\$ 400.00
CO-R	27-1080	Internal Review of Draft PMP		22-Aug-05 A	26-Aug-05 A	\$ 726.66
Resource Sub Total						\$ 2,726.66
CT-C						
CT-C	27-H1530	Compile Existing and Future Without Conditions	-698.0d	07-Feb-06	24-Mar-06	\$ 5,000.00
CT-C	27-H1450	Hydrologic, Physical and Subsurface Data Collection	1818.0d	12-Apr-06	14-Jul-06	\$ 5,000.00
CT-C	27-H3000	A-E Contract Procurement for Water Quality / Ecologic Data Collection	-737.0d	16-Dec-05	14-Feb-06	\$ 5,000.00
CT-C	27-H2980	Survey Data Collection for Models	1890.0d	28-Dec-05	03-Apr-06	\$ 5,000.00
Resource Sub Total						\$ 20,000.00
CT-S						
CT-S	27-H2250	Phase 1 Cultural Resource Surveys and Coordination	-251.0d	01-Mar-06	29-Sep-06	\$ 3,000.00
CT-S	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 1,000.00
Resource Sub Total						\$ 4,000.00

App F Tab A - Resource and Role Assignments

WBS 129011 CERP Everglades National Park Seepage Management

Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
DP-E						
DP-E	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 15,973.34
DP-E	27-H1105	Travel DP FY05		01-Jun-05 A	30-Sep-05 A	\$ 0.01
DP-E	27-H1205	DP Project Management FY06	1764.0d	03-Oct-05 A	29-Sep-06	\$ 163,000.00
DP-E	27-H1215	DP Project Management FY07 and Beyond	-149.0d	01-Nov-05 A	15-May-14	\$ 520,200.00
DP-E	27-H1135	Transmit Final PIR to SAD	-585.5d	22-Jan-09	05-Feb-09	\$ 1,000.00
Resource Sub Total						\$ 700,173.35
EN-C						
EN-C	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 4,000.00
EN-C	27-H3030	VE FSM Package	-682.0d	31-Aug-06	21-Sep-06	\$ 1,600.00
EN-C	27-H1660	Develop Planning Cost Estimates (Engineering, Construction, O&M)	-788.0d	16-Nov-06	22-Mar-07	\$ 25,000.00
EN-C	27-H2280	SAJ Response to HQ Policy Review Comments	-683.0d	30-Oct-06	06-Nov-06	\$ 1,500.00
EN-C	27-H1600	Feasibility Scoping Meeting	-683.0d	07-Nov-06	08-Nov-06	\$ 1,000.00
EN-C	27-H1720	Compare Alternative Plans & Select Tentatively Selected Plan	-808.0d	25-Jun-07	10-Jul-07	\$ 40,000.00
EN-C	27-H2150	Prepare MCASES Cost Estimate	-745.0d	03-Apr-08	02-May-08	\$ 50,000.00
EN-C	27-H1330	Compile (Preliminary) Draft PIR/NEPA	-745.0d	10-Apr-08	09-May-08	\$ 3,000.00
EN-C	27-H2140	Develop Implementation Plan	-745.0d	25-Apr-08	09-May-08	\$ 3,000.00
EN-C	27-H1340	In-house Review of Draft PIR/NEPA	-745.0d	12-May-08	23-May-08	\$ 2,000.00
EN-C	27-H2330	Incorporate In-House, RECOVER & ITR Comments on Prelim Draft PIR/NEPA	-808.0d	25-Aug-08	15-Sep-08	\$ 2,000.00
EN-C	27-H1000	In Progress Review	-798.5d	16-Dec-08	22-Dec-08	\$ 4,000.00
EN-C	27-H1640	Develop Preliminary Design for Alternatives	-788.0d	08-Nov-06	15-Mar-07	\$ 24,000.00
EN-C	27-H1671	Develop Cost Estimate	-700.0d	10-Aug-06	11-Oct-06	\$ 3,400.00
EN-C	27-H2465	VE 30% P&S Package (VE Workshop)	719.0d	08-Nov-10	01-Dec-10	\$ 1,600.00
Resource Sub Total						\$ 166,100.00

App F Tab A - Resource and Role Assignments

WBS 129011 CERP Everglades National Park Seepage Management

Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
EN-DL						
EN-DL	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 4,000.00
EN-DL	27-H2910	Prepare FSM Package	-683.0d	10-Aug-06	30-Aug-06	\$ 33,000.00
EN-DL	27-H1360	Identify Problems, Opportunities, Objectives & Constraints	-808.0d	23-Nov-05	14-Dec-05	\$ 5,000.00
EN-DL	27-H1560	Identification of Management Measures	-704.0d	29-Mar-06	27-Apr-06	\$ 1,600.00
EN-DL	27-H1572	Define Components & Create Array of Alternatives	-697.0d	28-Apr-06	28-Jun-06	\$ 1,600.00
EN-DL	27-H2720	Preliminary Screening of Conceptual Alternatives	-704.0d	26-May-06	10-Jul-06	\$ 2,400.00
EN-DL	27-H2760	Determine Final Alternative Array	-704.0d	11-Jul-06	09-Aug-06	\$ 2,400.00
EN-DL	27-H1660	Develop Planning Cost Estimates (Engineering, Construction, O&M)	-788.0d	16-Nov-06	22-Mar-07	\$ 4,000.00
EN-DL	27-H1600	Feasibility Scoping Meeting	-683.0d	07-Nov-06	08-Nov-06	\$ 1,600.00
EN-DL	27-H1720	Compare Alternative Plans & Select Tentatively Selected Plan	-808.0d	25-Jun-07	10-Jul-07	\$ 1,600.00
EN-DL	27-H1640	Develop Preliminary Design for Alternatives	-788.0d	08-Nov-06	15-Mar-07	\$ 20,000.00
EN-DL	27-H2960	Obtain Real Estate Rights of Entry Geotech, Survey, Environmental & Cultural	1869.0d	30-Jan-06	27-Mar-06	\$ 2,400.00
EN-DL	27-H2000	Develop TSP Site Survey/Geotech Scope	-708.0d	25-Jul-07	07-Aug-07	\$ 4,000.00
EN-DL	27-H3030	VE FSM Package	-682.0d	31-Aug-06	21-Sep-06	\$ 3,500.00
EN-DL	27-H2465	VE 30% P&S Package (VE Workshop)	719.0d	08-Nov-10	01-Dec-10	\$ 3,500.00
EN-DL	27-H2875	Pre-construction, Engineering and Design (PED)	-808.0d	27-Sep-07	08-Mar-12	\$ 9,033,000.00
Resource Sub Total						\$ 9,123,600.00
EN-DM						
EN-DM	27-H3030	VE FSM Package	-682.0d	31-Aug-06	21-Sep-06	\$ 3,500.00
EN-DM	27-H2465	VE 30% P&S Package (VE Workshop)	719.0d	08-Nov-10	01-Dec-10	\$ 3,500.00
Resource Sub Total						\$ 7,000.00

App F Tab A - Resource and Role Assignments

WBS 129011 CERP Everglades National Park Seepage Management

Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
EN-DS						
EN-DS	27-1080	Internal Review of Draft PMP		22-Aug-05 A	26-Aug-05 A	\$ 1,500.00
EN-DS	27-1010	Initial PMP Coordination Meeting		23-Jun-05 A	23-Jun-05 A	\$ 1,500.00
EN-DS	27-H1360	Identify Problems, Opportunities, Objectives & Constraints	-808.0d	23-Nov-05	14-Dec-05	\$ 2,400.00
EN-DS	27-H2720	Preliminary Screening of Conceptual Alternatives	-704.0d	26-May-06	10-Jul-06	\$ 2,400.00
EN-DS	27-H1600	Feasibility Scoping Meeting	-683.0d	07-Nov-06	08-Nov-06	\$ 1,000.00
EN-DS	27-H3030	VE FSM Package	-682.0d	31-Aug-06	21-Sep-06	\$ 1,600.00
EN-DS	27-H2465	VE 30% P&S Package (VE Workshop)	719.0d	08-Nov-10	01-Dec-10	\$ 1,600.00
Resource Sub Total						\$ 12,000.00
EN-DT						
EN-DT	27-H2950	A-E Contract(s) Procurement (Survey & Geotech)	-743.0d	27-Sep-07	26-Nov-07	\$ 7,500.00
EN-DT	27-H2010	Obtain SAP Geotechnical & Survey Data	-743.0d	27-Nov-07	03-Mar-08	\$ 15,000.00
Resource Sub Total						\$ 22,500.00
EN-G						
EN-G	27-H2910	Prepare FSM Package	-683.0d	10-Aug-06	30-Aug-06	\$ 6,708.00
Resource Sub Total						\$ 6,708.00
EN-GE						
EN-GE	27-1080	Internal Review of Draft PMP		22-Aug-05 A	26-Aug-05 A	\$ 7,000.00
EN-GE	27-H1620	ITR Meeting with PDT to prepare for FSM	-683.0d	22-Sep-06	22-Sep-06	\$ 1,000.00
EN-GE	27-H1460	Water Quality / Ecologic Data Collection	-737.0d	15-Feb-06	18-May-06	\$ 50,000.00
EN-GE	27-H1530	Compile Existing and Future Without Conditions	-698.0d	07-Feb-06	24-Mar-06	\$ 5,000.00
EN-GE	27-H1360	Identify Problems, Opportunities, Objectives & Constraints	-808.0d	23-Nov-05	14-Dec-05	\$ 5,000.00
EN-GE	27-H1572	Define Components & Create Array of Alternatives	-697.0d	28-Apr-06	28-Jun-06	\$ 1,000.00

App F Tab A - Resource and Role Assignments

WBS 129011 CERP Everglades National Park Seepage Management

Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
EN-GE	27-H2720	Preliminary Screening of Conceptual Alternatives	-704.0d	26-May-06	10-Jul-06	\$ 1,000.00
EN-GE	27-H2760	Determine Final Alternative Array	-704.0d	11-Jul-06	09-Aug-06	\$ 3,000.00
EN-GE	27-H2910	Prepare FSM Package	-683.0d	10-Aug-06	30-Aug-06	\$ 2,000.00
EN-GE	27-H1600	Feasibility Scoping Meeting	-683.0d	07-Nov-06	08-Nov-06	\$ 1,000.00
EN-GE	27-H2920	Prepare AFB Package	-808.0d	29-May-07	10-Jul-07	\$ 1,000.00
EN-GE	27-H1720	Compare Alternative Plans & Select Tentatively Selected Plan	-808.0d	25-Jun-07	10-Jul-07	\$ 1,000.00
EN-GE	27-H1810	AFB Meeting	-808.0d	12-Sep-07	12-Sep-07	\$ 1,000.00
EN-GE	27-H1020	Complete Draft PIR/NEPA Document for NEPA Review	-808.0d	16-Sep-08	24-Sep-08	\$ 1,000.00
EN-GE	27-H1645	HTRW Assessment (review of phase 1)	1891.0d	27-Mar-06	31-Mar-06	\$ 2,000.00
EN-GE	27-H2060	Develop Project Monitoring Plan	-745.0d	02-Jan-08	02-May-08	\$ 35,000.00
Resource Sub Total						\$ 117,000.00

EN-GG

EN-GG	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 10,000.00
EN-GG	27-1080	Internal Review of Draft PMP		22-Aug-05 A	26-Aug-05 A	\$ 5,000.00
EN-GG	27-1100	Final Draft PMP Incorporating Internal Review		29-Aug-05 A	02-Sep-05 A	\$ 2,000.00
EN-GG	27-1010	Initial PMP Coordination Meeting		23-Jun-05 A	23-Jun-05 A	\$ 1,500.00
EN-GG	27-1040	Hold PDT Kick-Off Meeting		24-Jun-05 A	24-Jun-05 A	\$ 1,500.00
EN-GG	27-1140	Final PMP Incorporate Agency Comments		13-Sep-05 A	19-Sep-05 A	\$ 3,000.00
EN-GG	27-H1572	Define Components & Create Array of Alternatives	-697.0d	28-Apr-06	28-Jun-06	\$ 4,000.00
EN-GG	27-H2760	Determine Final Alternative Array	-704.0d	11-Jul-06	09-Aug-06	\$ 5,623.00
EN-GG	27-H2280	SAJ Response to HQ Policy Review Comments	-683.0d	30-Oct-06	06-Nov-06	\$ 1,500.00
EN-GG	27-H2720	Preliminary Screening of Conceptual Alternatives	-704.0d	26-May-06	10-Jul-06	\$ 2,000.00
EN-GG	27-H1600	Feasibility Scoping Meeting	-683.0d	07-Nov-06	08-Nov-06	\$ 1,000.00

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WBS 129011 CERP Everglades National Park Seepage Management

Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
EN-GG	27-H1610	Receive FSM Guidance Memorandum	-683.0d	09-Nov-06	27-Nov-06	\$ 1,000.00
EN-GG	27-H2910	Prepare FSM Package	-683.0d	10-Aug-06	30-Aug-06	\$ 3,600.00
EN-GG	27-H1360	Identify Problems, Opportunities, Objectives & Constraints	-808.0d	23-Nov-05	14-Dec-05	\$ 4,000.00
EN-GG	27-H2940	A-E Contract Procurement (Geotech)	1818.0d	14-Feb-06	11-Apr-06	\$ 7,000.00
EN-GG	27-H1380	Inventory and Forecast Hydrologic & Geologic Resources	-698.0d	24-Jan-06	24-Mar-06	\$ 7,000.00
EN-GG	27-H1480	Hydrologic Model Selection	-808.0d	01-Mar-06	28-Mar-06	\$ 5,000.00
EN-GG	27-H3160	A-E Contract Procurement (Inventory for Geotech)	-698.0d	23-Nov-05	23-Jan-06	\$ 6,000.00
EN-GG	27-H1530	Compile Existing and Future Without Conditions	-698.0d	07-Feb-06	24-Mar-06	\$ 1,000.00
EN-GG	27-H1450	Hydrologic, Physical and Subsurface Data Collection	1818.0d	12-Apr-06	14-Jul-06	\$ 30,000.00
EN-GG	27-H1660	Develop Planning Cost Estimates (Engineering, Construction, O&M)	-788.0d	16-Nov-06	22-Mar-07	\$ 3,000.00
EN-GG	27-H1570	Compare Existing Condition to Pre-CERP Baseline	-808.0d	02-Mar-07	15-Mar-07	\$ 1,500.00
EN-GG	27-H1650	Model & Evaluate Alternatives (compare with & without plan)	-808.0d	24-Jan-07	26-Apr-07	\$ 3,000.00
EN-GG	27-H2920	Prepare AFB Package	-808.0d	29-May-07	10-Jul-07	\$ 2,000.00
EN-GG	27-H1720	Compare Alternative Plans & Select Tentatively Selected Plan	-808.0d	25-Jun-07	10-Jul-07	\$ 2,000.00
EN-GG	27-H2300	SAJ Response to HQ Policy Review Comments	-808.0d	05-Sep-07	11-Sep-07	\$ 3,000.00
EN-GG	27-H1810	AFB Meeting	-808.0d	12-Sep-07	12-Sep-07	\$ 1,000.00
EN-GG	27-H1820	AFB Guidance Memorandum	-808.0d	13-Sep-07	26-Sep-07	\$ 2,000.00
EN-GG	27-H1990	Develop Draft Scope of TSP Exploration Plan & Confirm with Sponsor	-708.0d	11-Jul-07	24-Jul-07	\$ 3,000.00
EN-GG	27-H2000	Develop TSP Site Survey/Geotech Scope	-708.0d	25-Jul-07	07-Aug-07	\$ 3,000.00
EN-GG	27-H2070	Selected Alternative Plan (SAP)	-808.0d	13-Aug-07	26-Sep-07	\$ 7,000.00
EN-GG	27-H2970	Obtain Real Estate Rights of Entry	-743.0d	27-Sep-07	26-Nov-07	\$ 1,000.00
EN-GG	27-H2950	A-E Contract(s) Procurement (Survey & Geotech)	-743.0d	27-Sep-07	26-Nov-07	\$ 8,000.00
EN-GG	27-H2040	Perform SAP Geotech Analysis	-743.0d	27-Nov-07	03-Mar-08	\$ 20,000.00
EN-GG	27-H2010	Obtain SAP Geotechnical & Survey Data	-743.0d	27-Nov-07	03-Mar-08	\$ 10,000.00
EN-GG	27-H2150	Prepare MCASES Cost Estimate	-745.0d	03-Apr-08	02-May-08	\$ 1,000.00

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WBS 129011 CERP Everglades National Park Seepage Management

Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
EN-GG	27-H1330	Compile (Preliminary) Draft PIR/NEPA	-745.0d	10-Apr-08	09-May-08	\$ 3,600.00
EN-GG	27-H2140	Develop Implementation Plan	-745.0d	25-Apr-08	09-May-08	\$ 3,600.00
EN-GG	27-H1340	In-house Review of Draft PIR/NEPA	-745.0d	12-May-08	23-May-08	\$ 1,000.00
EN-GG	27-H2330	Incorporate In-House, RECOVER & ITR Comments on Prelim Draft PIR/NEPA	-808.0d	25-Aug-08	15-Sep-08	\$ 2,000.00
EN-GG	27-H1020	Complete Draft PIR/NEPA Document for NEPA Review	-808.0d	16-Sep-08	24-Sep-08	\$ 1,000.00
EN-GG	27-H2320	SAJ Response to HQ Policy Review Comments	-798.5d	02-Dec-08	15-Dec-08	\$ 2,500.00
EN-GG	27-H1000	In Progress Review	-798.5d	16-Dec-08	22-Dec-08	\$ 1,000.00
EN-GG	27-H1640	Develop Preliminary Design for Alternatives	-788.0d	08-Nov-06	15-Mar-07	\$ 16,000.00
EN-GG	27-H2960	Obtain Real Estate Rights of Entry Geotech, Survey, Environmental & Cultural	1869.0d	30-Jan-06	27-Mar-06	\$ 2,000.00
EN-GG	27-H2060	Develop Project Monitoring Plan	-745.0d	02-Jan-08	02-May-08	\$ 26,000.00
EN-GG	27-H1010	Project Guidance Memorandum (IPR)	-798.5d	22-Dec-08	07-Jan-09	\$ 3,000.00
Resource Sub Total						\$ 233,923.00
EN-GS						
EN-GS	27-1080	Internal Review of Draft PMP		22-Aug-05 A	26-Aug-05 A	\$ 2,000.00
EN-GS	27-1100	Final Draft PMP Incorporating Internal Review		29-Aug-05 A	02-Sep-05 A	\$ 2,000.00
EN-GS	27-1010	Initial PMP Coordination Meeting		23-Jun-05 A	23-Jun-05 A	\$ 1,000.00
EN-GS	27-1040	Hold PDT Kick-Off Meeting		24-Jun-05 A	24-Jun-05 A	\$ 1,000.00
EN-GS	27-H1572	Define Components & Create Array of Alternatives	-697.0d	28-Apr-06	28-Jun-06	\$ 4,500.00
EN-GS	27-H2760	Determine Final Alternative Array	-704.0d	11-Jul-06	09-Aug-06	\$ 4,500.00
EN-GS	27-H2720	Preliminary Screening of Conceptual Alternatives	-704.0d	26-May-06	10-Jul-06	\$ 4,500.00
EN-GS	27-H2960	Obtain Real Estate Rights of Entry Geotech, Survey, Environmental & Cultural	1869.0d	30-Jan-06	27-Mar-06	\$ 2,000.00
EN-GS	27-H1380	Inventory and Forecast Hydrologic & Geologic Resources	-698.0d	24-Jan-06	24-Mar-06	\$ 2,000.00
EN-GS	27-H3160	A-E Contract Procurement (Inventory for Geotech)	-698.0d	23-Nov-05	23-Jan-06	\$ 2,500.00

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WBS 129011 CERP Everglades National Park Seepage Management

Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
EN-GS	27-H1530	Compile Existing and Future Without Conditions	-698.0d	07-Feb-06	24-Mar-06	\$ 2,000.00
EN-GS	27-H1450	Hydrologic, Physical and Subsurface Data Collection	1818.0d	12-Apr-06	14-Jul-06	\$ 15,000.00
EN-GS	27-H1360	Identify Problems, Opportunities, Objectives & Constraints	-808.0d	23-Nov-05	14-Dec-05	\$ 4,500.00
EN-GS	27-H1650	Model & Evaluate Alternatives (compare with & without plan)	-808.0d	24-Jan-07	26-Apr-07	\$ 25,000.00
EN-GS	27-H1700	Conduct Cost-Effectiveness & Incremental Cost Analysis	-803.0d	25-May-07	15-Jun-07	\$ 1,000.00
EN-GS	27-H1720	Compare Alternative Plans & Select Tentatively Selected Plan	-808.0d	25-Jun-07	10-Jul-07	\$ 1,000.00
EN-GS	27-H1810	AFB Meeting	-808.0d	12-Sep-07	12-Sep-07	\$ 1,000.00
EN-GS	27-H1640	Develop Preliminary Design for Alternatives	-788.0d	08-Nov-06	15-Mar-07	\$ 20,000.00
EN-GS	27-H3030	VE FSM Package	-682.0d	31-Aug-06	21-Sep-06	\$ 3,500.00
EN-GS	27-H2465	VE 30% P&S Package (VE Workshop)	719.0d	08-Nov-10	01-Dec-10	\$ 3,500.00
Resource Sub Total						\$ 102,500.00
EN-H						
EN-H	27-H2910	Prepare FSM Package	-683.0d	10-Aug-06	30-Aug-06	\$ 5,511.00
Resource Sub Total						\$ 5,511.00
EN-HH						
EN-HH	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 1,397.51
EN-HH	27-H1360	Identify Problems, Opportunities, Objectives & Constraints	-808.0d	23-Nov-05	14-Dec-05	\$ 8,000.00
EN-HH	27-H3030	VE FSM Package	-682.0d	31-Aug-06	21-Sep-06	\$ 1,600.00
EN-HH	27-H2465	VE 30% P&S Package (VE Workshop)	719.0d	08-Nov-10	01-Dec-10	\$ 1,600.00
EN-HH	27-H1520	Model Existing & Without Plan Conditions	-808.0d	08-Nov-06	15-Mar-07	\$ 4,992.00
EN-HH	27-H1600	Feasibility Scoping Meeting	-683.0d	07-Nov-06	08-Nov-06	\$ 2,496.00
EN-HH	27-H1660	Develop Planning Cost Estimates (Engineering, Construction, O&M)	-788.0d	16-Nov-06	22-Mar-07	\$ 4,160.00
EN-HH	27-H1685	Simulation of Existing and Without Plan Conditions and Alternatives with SFWMM (IMC)	-732.0d	08-Nov-06	16-Jan-07	\$ 8,320.00

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Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
EN-HH	27-H1650	Model & Evaluate Alternatives (compare with & without plan)	-808.0d	24-Jan-07	26-Apr-07	\$ 8,320.00
EN-HH	27-H2920	Prepare AFB Package	-808.0d	29-May-07	10-Jul-07	\$ 4,160.00
EN-HH	27-H2300	SAJ Response to HQ Policy Review Comments	-808.0d	05-Sep-07	11-Sep-07	\$ 2,496.00
EN-HH	27-H2160	Non Federal Sponsor Coordination	-808.0d	13-Sep-07	26-Sep-07	\$ 1,664.00
EN-HH	27-H1810	AFB Meeting	-808.0d	12-Sep-07	12-Sep-07	\$ 4,160.00
EN-HH	27-H1720	Compare Alternative Plans & Select Tentatively Selected Plan	-808.0d	25-Jun-07	10-Jul-07	\$ 6,656.00
EN-HH	27-H2320	SAJ Response to HQ Policy Review Comments	-798.5d	02-Dec-08	15-Dec-08	\$ 2,496.00
EN-HH	27-H2090	Perform SAP H&H Analysis	-745.0d	13-Sep-07	28-Nov-07	\$ 8,320.00
EN-HH	27-H1340	In-house Review of Draft PIR/NEPA	-745.0d	12-May-08	23-May-08	\$ 2,496.00
EN-HH	27-H1330	Compile (Preliminary) Draft PIR/NEPA	-745.0d	10-Apr-08	09-May-08	\$ 2,496.00
EN-HH	27-H1000	In Progress Review	-798.5d	16-Dec-08	22-Dec-08	\$ 2,496.00
EN-HH	27-H1500	Simulation Models (Water Quality)	-808.0d	09-Nov-06	14-Feb-07	\$ 1,664.00
EN-HH	27-H1483	Model Verification and Calibration	-808.0d	26-Apr-06	12-Jan-07	\$ 1,664.00
EN-HH	27-H1640	Develop Preliminary Design for Alternatives	-788.0d	08-Nov-06	15-Mar-07	\$ 16,640.00
EN-HH	27-H3275	Physical Takings Analysis/non-Standard Estates	-736.0d	18-Jan-08	07-Feb-08	\$ 4,160.00
EN-HH	27-H2085	Prepare Planning Maps	-808.0d	18-Jan-08	20-May-08	\$ 4,160.00
EN-HH	27-H1230	Respond to State, Agency and Public Comments	-640.0d	22-Jun-09	20-Jul-09	\$ 2,496.00
Resource Sub Total						\$ 109,109.51
EN-HI						
EN-HI	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 1,000.00
EN-HI	27-H1360	Identify Problems, Opportunities, Objectives & Constraints	-808.0d	23-Nov-05	14-Dec-05	\$ 10,517.36
EN-HI	27-H1520	Model Existing & Without Plan Conditions	-808.0d	08-Nov-06	15-Mar-07	\$ 46,762.88
EN-HI	27-H1380	Inventory and Forecast Hydrologic & Geologic Resources	-698.0d	24-Jan-06	24-Mar-06	\$ 9,021.68
EN-HI	27-H1650	Model & Evaluate Alternatives (compare with & without plan)	-808.0d	24-Jan-07	26-Apr-07	\$ 35,673.92

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Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
EN-HI	27-H2070	Selected Alternative Plan (SAP)	-808.0d	13-Aug-07	26-Sep-07	\$ 3,623.28
EN-HI	27-H2090	Perform SAP H&H Analysis	-745.0d	13-Sep-07	28-Nov-07	\$ 11,793.92
EN-HI	27-H1480	Hydrologic Model Selection	-808.0d	01-Mar-06	28-Mar-06	\$ 19,332.64
EN-HI	27-H1500	Simulation Models (Water Quality)	-808.0d	09-Nov-06	14-Feb-07	\$ 50,459.20
EN-HI	27-H1481	Model Verification Boundary Conditions Defined	-808.0d	29-Mar-06	11-Apr-06	\$ 9,167.76
EN-HI	27-H1482	Model Calibration Boundary Conditions Defined	-808.0d	12-Apr-06	25-Apr-06	\$ 9,167.76
EN-HI	27-H1483	Model Verification and Calibration	-808.0d	26-Apr-06	12-Jan-07	\$ 183,720.40
EN-HI	27-H1530	Compile Existing and Future Without Conditions	-698.0d	07-Feb-06	24-Mar-06	\$ 16,949.40
EN-HI	27-H1600	Feasibility Scoping Meeting	-683.0d	07-Nov-06	08-Nov-06	\$ 924.08
EN-HI	27-H1570	Compare Existing Condition to Pre-CERP Baseline	-808.0d	02-Mar-07	15-Mar-07	\$ 10,091.84
EN-HI	27-H2920	Prepare AFB Package	-808.0d	29-May-07	10-Jul-07	\$ 924.08
EN-HI	27-H2300	SAJ Response to HQ Policy Review Comments	-808.0d	05-Sep-07	11-Sep-07	\$ 2,735.72
EN-HI	27-H1810	AFB Meeting	-808.0d	12-Sep-07	12-Sep-07	\$ 924.08
EN-HI	27-H2095	Next Added Increment Analysis	-681.0d	29-Nov-07	31-Dec-07	\$ 24,305.52
EN-HI	27-H2100	Develop Draft Project Operating Manual	-741.0d	12-Oct-07	15-Feb-08	\$ 11,793.92
EN-HI	27-H2110	Quantify Water Made Available	-741.0d	19-Feb-08	17-Mar-08	\$ 10,091.84
EN-HI	27-H2120	Savings Analysis	-728.0d	19-Feb-08	17-Mar-08	\$ 10,091.84
EN-HI	27-H2130	Identify Water to be Reserved	-741.0d	18-Mar-08	19-May-08	\$ 12,718.00
EN-HI	27-H1340	In-house Review of Draft PIR/NEPA	-745.0d	12-May-08	23-May-08	\$ 2,273.68
EN-HI	27-H2320	SAJ Response to HQ Policy Review Comments	-798.5d	02-Dec-08	15-Dec-08	\$ 2,273.68
EN-HI	27-H1080	Respond to Public Comments on Draft PIR/NEPA	-808.0d	08-Dec-08	21-Jan-09	\$ 2,735.72
EN-HI	27-H2330	Incorporate In-House, RECOVER & ITR Comments on Prelim Draft PIR/NEPA	-808.0d	25-Aug-08	15-Sep-08	\$ 3,623.28
Resource Sub Total						\$ 502,697.48

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Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
EN-HW						
EN-HW	27-1100	Final Draft PMP Incorporating Internal Review		29-Aug-05 A	02-Sep-05 A	\$ 0.01
EN-HW	27-1140	Final PMP Incorporate Agency Comments		13-Sep-05 A	19-Sep-05 A	\$ 0.01
EN-HW	27-H1530	Compile Existing and Future Without Conditions	-698.0d	07-Feb-06	24-Mar-06	\$ 1,228.00
EN-HW	27-H1360	Identify Problems, Opportunities, Objectives & Constraints	-808.0d	23-Nov-05	14-Dec-05	\$ 4,781.00
EN-HW	27-H1620	ITR Meeting with PDT to prepare for FSM	-683.0d	22-Sep-06	22-Sep-06	\$ 342.00
EN-HW	27-H1720	Compare Alternative Plans & Select Tentatively Selected Plan	-808.0d	25-Jun-07	10-Jul-07	\$ 1,197.00
EN-HW	27-H2100	Develop Draft Project Operating Manual	-741.0d	12-Oct-07	15-Feb-08	\$ 16,450.00
EN-HW	27-H2330	Incorporate In-House, RECOVER & ITR Comments on Prelim Draft PIR/NEPA	-808.0d	25-Aug-08	15-Sep-08	\$ 5,040.00
EN-HW	27-H2260	Submit Documentation to HQ for Draft PIR/NEPA Review	-798.5d	27-Oct-08	28-Oct-08	\$ 1,366.00
EN-HW	27-H1475	Wet Season Test	-745.0d	01-Jun-06	07-Jun-06	\$ 5,917.00
EN-HW	27-H1495	Evaluate Old and New Data Together	-745.0d	08-Jun-06	08-Jun-06	\$ 2,308.00
Resource Sub Total						\$ 38,629.02
EN-T						
EN-T	27-H3030	VE FSM Package	-682.0d	31-Aug-06	21-Sep-06	\$ 18,200.00
EN-T	27-H1360	Identify Problems, Opportunities, Objectives & Constraints	-808.0d	23-Nov-05	14-Dec-05	\$ 3,500.00
EN-T	27-H3040	VE of AFB Package	-808.0d	11-Jul-07	31-Jul-07	\$ 3,400.00
EN-T	27-H2465	VE 30% P&S Package (VE Workshop)	719.0d	08-Nov-10	01-Dec-10	\$ 18,200.00
EN-T	27-1080	Internal Review of Draft PMP		22-Aug-05 A	26-Aug-05 A	\$ 8,000.00
Resource Sub Total						\$ 51,300.00
EN-TI						
EN-TI	27-H1620	ITR Meeting with PDT to prepare for FSM	-683.0d	22-Sep-06	22-Sep-06	\$ 5,400.00
Resource Sub Total						\$ 5,400.00

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Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
OC						
OC	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 1,000.00
OC	27-1150	Distribute Draft PMP for PRB and Non Federal Sponsor Senior Management Team Review		20-Sep-05 A	25-Oct-05 A	\$ 800.00
OC	27-1230	Final Approval by Non Federal Sponsor	-808.0d	26-Oct-05 A	15-Nov-05	\$ 800.00
OC	27-H1250	Policy Review Documentation	-640.0d	21-Jul-09	29-Jul-09	\$ 800.00
Resource Sub Total						\$ 3,400.00
OC-RE						
OC-RE	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 500.00
OC-RE	27-H3295	Relocations/Utility/Attorney's Opinion of Compensability	-688.0d	18-Jan-08	01-Feb-08	\$ 10,000.00
OC-RE	27-H2080	Prepare Real Estate Appendix	-808.0d	13-Sep-07	17-Jan-08	\$ 7,500.00
OC-RE	27-H3275	Physical Takings Analysis/non-Standard Estates	-736.0d	18-Jan-08	07-Feb-08	\$ 5,000.00
OC-RE	27-H3305	Estate Analysis/Determination	-808.0d	21-May-08	10-Jun-08	\$ 5,000.00
OC-RE	27-H2910	Prepare FSM Package	-683.0d	10-Aug-06	30-Aug-06	\$ 1,000.00
Resource Sub Total						\$ 29,000.00
PD-D						
PD-D	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 2,000.00
PD-D	27-H1360	Identify Problems, Opportunities, Objectives & Constraints	-808.0d	23-Nov-05	14-Dec-05	\$ 8,000.00
PD-D	27-H1400	Inventory and Forecast Economic Resources	-795.0d	25-Nov-05	27-Jan-06	\$ 6,000.00
PD-D	27-H1530	Compile Existing and Future Without Conditions	-698.0d	07-Feb-06	24-Mar-06	\$ 11,269.00
PD-D	27-H1470	Economic Data Collection	-686.0d	15-Feb-06	18-May-06	\$ 9,000.00
PD-D	27-H1510	Simulation Models (Economic)	-806.0d	07-Aug-06	12-Feb-07	\$ 6,000.00
PD-D	27-H2720	Preliminary Screening of Conceptual Alternatives	-704.0d	26-May-06	10-Jul-06	\$ 6,000.00

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Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
PD-D	27-H2760	Determine Final Alternative Array	-704.0d	11-Jul-06	09-Aug-06	\$ 5,000.00
PD-D	27-H2910	Prepare FSM Package	-683.0d	10-Aug-06	30-Aug-06	\$ 4,000.00
PD-D	27-H1620	ITR Meeting with PDT to prepare for FSM	-683.0d	22-Sep-06	22-Sep-06	\$ 1,500.00
PD-D	27-H1600	Feasibility Scoping Meeting	-683.0d	07-Nov-06	08-Nov-06	\$ 1,500.00
PD-D	27-H1650	Model & Evaluate Alternatives (compare with & without plan)	-808.0d	24-Jan-07	26-Apr-07	\$ 4,500.00
PD-D	27-H1700	Conduct Cost-Effectiveness & Incremental Cost Analysis	-803.0d	25-May-07	15-Jun-07	\$ 9,500.00
PD-D	27-H2920	Prepare AFB Package	-808.0d	29-May-07	10-Jul-07	\$ 9,500.00
PD-D	27-H2300	SAJ Response to HQ Policy Review Comments	-808.0d	05-Sep-07	11-Sep-07	\$ 1,500.00
PD-D	27-H1810	AFB Meeting	-808.0d	12-Sep-07	12-Sep-07	\$ 1,500.00
PD-D	27-H1340	In-house Review of Draft PIR/NEPA	-745.0d	12-May-08	23-May-08	\$ 3,000.00
PD-D	27-H2320	SAJ Response to HQ Policy Review Comments	-798.5d	02-Dec-08	15-Dec-08	\$ 9,000.00
PD-D	27-H1000	In Progress Review	-798.5d	16-Dec-08	22-Dec-08	\$ 2,000.00
PD-D	27-H1080	Respond to Public Comments on Draft PIR/NEPA	-808.0d	08-Dec-08	21-Jan-09	\$ 3,000.00
PD-D	27-H1485	Prepare Socio-Econ Appendix	-795.0d	30-Jan-06	26-Feb-07	\$ 14,000.00
Resource Sub Total						\$ 117,769.00

PD-ES

PD-ES	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 12,000.00
PD-ES	27-H2910	Prepare FSM Package	-683.0d	10-Aug-06	30-Aug-06	\$ 3,000.00
PD-ES	27-H1360	Identify Problems, Opportunities, Objectives & Constraints	-808.0d	23-Nov-05	14-Dec-05	\$ 7,500.00
PD-ES	27-H1530	Compile Existing and Future Without Conditions	-698.0d	07-Feb-06	24-Mar-06	\$ 15,000.00
PD-ES	27-H1490	Identify Simulation Models (Ecologic)	-666.0d	18-Apr-06	20-Jul-06	\$ 5,000.00
PD-ES	27-H2720	Preliminary Screening of Conceptual Alternatives	-704.0d	26-May-06	10-Jul-06	\$ 2,000.00
PD-ES	27-H2760	Determine Final Alternative Array	-704.0d	11-Jul-06	09-Aug-06	\$ 2,000.00
PD-ES	27-H2280	SAJ Response to HQ Policy Review Comments	-683.0d	30-Oct-06	06-Nov-06	\$ 2,000.00

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Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
PD-ES	27-H1600	Feasibility Scoping Meeting	-683.0d	07-Nov-06	08-Nov-06	\$ 3,000.00
PD-ES	27-H2920	Prepare AFB Package	-808.0d	29-May-07	10-Jul-07	\$ 5,000.00
PD-ES	27-H2300	SAJ Response to HQ Policy Review Comments	-808.0d	05-Sep-07	11-Sep-07	\$ 2,500.00
PD-ES	27-H1810	AFB Meeting	-808.0d	12-Sep-07	12-Sep-07	\$ 3,000.00
PD-ES	27-H1330	Compile (Preliminary) Draft PIR/NEPA	-745.0d	10-Apr-08	09-May-08	\$ 5,000.00
PD-ES	27-H1340	In-house Review of Draft PIR/NEPA	-745.0d	12-May-08	23-May-08	\$ 4,000.00
PD-ES	27-H1020	Complete Draft PIR/NEPA Document for NEPA Review	-808.0d	16-Sep-08	24-Sep-08	\$ 2,500.00
PD-ES	27-H2320	SAJ Response to HQ Policy Review Comments	-798.5d	02-Dec-08	15-Dec-08	\$ 2,500.00
PD-ES	27-H1940	Conduct NEPA Scoping Activities	-671.0d	25-Nov-05	06-Jan-06	\$ 4,500.00
PD-ES	27-H1950	Hold NEPA Scoping Meeting	-520.0d	09-Jan-06	09-Jan-06	\$ 2,000.00
PD-ES	27-H1730	Compile Comments/Issues/Concerns; Finalize Problems & Opportunities	-491.0d	10-Jan-06	22-Feb-06	\$ 2,000.00
PD-ES	27-H2780	Preliminary Cultural Resource (SHPO) Consultation	-579.0d	09-Jan-06	28-Feb-06	\$ 5,000.00
PD-ES	27-H2785	Consultation (Native Americans)	-579.0d	09-Jan-06	28-Feb-06	\$ 5,000.00
PD-ES	27-H2790	Compile FSM submittals for Ecol., WQ. and CR	-579.0d	01-Mar-06	14-Mar-06	\$ 5,000.00
PD-ES	27-H1750	Detailed Inventory Ecological, Water Quality	-570.0d	01-Mar-06	14-Jun-06	\$ 10,000.00
PD-ES	27-H2250	Phase 1 Cultural Resource Surveys and Coordination	-251.0d	01-Mar-06	29-Sep-06	\$ 7,500.00
PD-ES	27-H2215	Draft ROD	1103.0d	23-Apr-09	20-May-09	\$ 2,500.00
PD-ES	27-H1960	Evaluation of Environmental Effects/Benefits & Compliance	-803.0d	27-Apr-07	24-May-07	\$ 15,000.00
PD-ES	27-H2800	Document Environmental Law Compliance	-657.0d	27-Sep-07	03-Dec-07	\$ 2,000.00
PD-ES	27-H2810	Prepare Env Effects, Cum Effects, Tradeoff Discussion for SAP	-674.0d	29-Nov-07	27-Dec-07	\$ 10,000.00
PD-ES	27-H2820	Incorporate all NEPA into PIR and Review for consistency	-672.0d	28-Dec-07	28-Jan-08	\$ 5,000.00
PD-ES	27-H2770	Preliminary ESA Consultation	-579.0d	09-Jan-06	28-Feb-06	\$ 500.00
PD-ES	27-H1060	Notice of Availability in Federal Register (Fridays Only)	-808.0d	09-Oct-08	24-Oct-08	\$ 500.00
PD-ES	27-H2830	Public Workshop on Draft PIR	-808.0d	10-Nov-08	12-Nov-08	\$ 2,000.00
PD-ES	27-H1080	Respond to Public Comments on Draft PIR/NEPA	-808.0d	08-Dec-08	21-Jan-09	\$ 2,500.00

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Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
PD-ES	27-H1110	Assemble Final Draft PIR/NEPA for Internal Review	-808.0d	22-Dec-08	23-Jan-09	\$ 2,500.00
PD-ES	27-H1170	Prepare Final PIR/NEPA for Submittal to MSC	-808.0d	02-Apr-09	15-Apr-09	\$ 2,500.00
PD-ES	27-H1535	HTRW Assessment	-698.0d	07-Feb-06	24-Mar-06	\$ 5,000.00
PD-ES	27-H2775	ESA Consultation	-458.0d	01-Mar-06	17-Aug-06	\$ 5,000.00
PD-ES	27-H2795	Biological Assessment	-458.0d	18-Aug-06	08-Sep-06	\$ 5,000.00
PD-ES	27-H1655	Write NEPA Alternative Analysis	-808.0d	24-Jan-07	26-Apr-07	\$ 5,000.00
PD-ES	27-H1665	Develop Environmental Effects/Benefits Evaluation Method	-808.0d	24-Jan-07	26-Apr-07	\$ 5,000.00
PD-ES	27-1080	Internal Review of Draft PMP		22-Aug-05 A	26-Aug-05 A	\$ 1,000.00
PD-ES	27-H1125	Prepare SAJ Checklist Summary Package	-585.5d	07-Jan-09	22-Jan-09	\$ 5,000.00
Resource Sub Total						\$ 193,000.00
K3K0BH0-PD WATER QUA						
K3K0BH0-PD WATER QUA	27-H1530	Compile Existing and Future Without Conditions	-698.0d	07-Feb-06	24-Mar-06	\$ 10,000.00
K3K0BH0-PD WATER QUA	27-H2790	Compile FSM submittals for Ecol., WQ. and CR	-579.0d	01-Mar-06	14-Mar-06	\$ 7,000.00
K3K0BH0-PD WATER QUA	27-H1750	Detailed Inventory Ecological, Water Quality	-570.0d	01-Mar-06	14-Jun-06	\$ 10,000.00
Resource Sub Total						\$ 27,000.00
PD-P						
PD-P	27-H1360	Identify Problems, Opportunities, Objectives & Constraints	-808.0d	23-Nov-05	14-Dec-05	\$ 10,000.00
PD-P	27-H1540	RECOVER Assistance with Development of Existing & Future Without Conditions	-659.0d	23-Nov-05	27-Jan-06	\$ 10,000.00
PD-P	27-H1430	Identify Performance Measures	-808.0d	15-Dec-05	16-Feb-06	\$ 14,000.00
PD-P	27-H1435	RECOVER Review of Project Performance Measures	-808.0d	30-Dec-05	28-Mar-06	\$ 5,000.00
PD-P	27-H1530	Compile Existing and Future Without Conditions	-698.0d	07-Feb-06	24-Mar-06	\$ 11,000.00
PD-P	27-H1560	Identification of Management Measures	-704.0d	29-Mar-06	27-Apr-06	\$ 7,500.00
PD-P	27-H1572	Define Components & Create Array of Alternatives	-697.0d	28-Apr-06	28-Jun-06	\$ 14,000.00

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Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
PD-P	27-H2720	Preliminary Screening of Conceptual Alternatives	-704.0d	26-May-06	10-Jul-06	\$ 9,000.00
PD-P	27-H2760	Determine Final Alternative Array	-704.0d	11-Jul-06	09-Aug-06	\$ 7,500.00
PD-P	27-H2910	Prepare FSM Package	-683.0d	10-Aug-06	30-Aug-06	\$ 11,000.00
PD-P	27-H1590	Submit FSM Documentation to HQ	-683.0d	25-Sep-06	26-Sep-06	\$ 1,200.00
PD-P	27-H1620	ITR Meeting with PDT to prepare for FSM	-683.0d	22-Sep-06	22-Sep-06	\$ 1,500.00
PD-P	27-H1730	Compile Comments/Issues/Concerns; Finalize Problems & Opportunities	-491.0d	10-Jan-06	22-Feb-06	\$ 5,000.00
PD-P	27-H3030	VE FSM Package	-682.0d	31-Aug-06	21-Sep-06	\$ 1,600.00
PD-P	27-H1125	Prepare SAJ Checklist Summary Package	-585.5d	07-Jan-09	22-Jan-09	\$ 5,000.00
PD-P	27-H1135	Transmit Final PIR to SAD	-585.5d	22-Jan-09	05-Feb-09	\$ 4,000.00
PD-P	27-H1580	ITR of FSM Package	-683.0d	31-Aug-06	21-Sep-06	\$ 33,000.00
PD-P	27-H1770	ITR of AFB Package	-793.0d	19-Jun-07	10-Jul-07	\$ 50,000.00
PD-P	27-H1030	ITR on Draft PIR/NEPA Document	-808.0d	11-Aug-08	22-Aug-08	\$ 50,000.00
PD-P	27-H1150	ITR/Legal Review of Final PIR/NEPA	-808.0d	17-Feb-09	18-Mar-09	\$ 35,500.00
Resource Sub Total						\$ 285,800.00

PD-PN						
PD-PN	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 9,102.49
PD-PN	27-H1430	Identify Performance Measures	-808.0d	15-Dec-05	16-Feb-06	\$ 14,000.00
PD-PN	27-H2280	SAJ Response to HQ Policy Review Comments	-683.0d	30-Oct-06	06-Nov-06	\$ 5,000.00
PD-PN	27-H1600	Feasibility Scoping Meeting	-683.0d	07-Nov-06	08-Nov-06	\$ 3,000.00
PD-PN	27-H1570	Compare Existing Condition to Pre-CERP Baseline	-808.0d	02-Mar-07	15-Mar-07	\$ 7,500.00
PD-PN	27-H1650	Model & Evaluate Alternatives (compare with & without plan)	-808.0d	24-Jan-07	26-Apr-07	\$ 21,000.00
PD-PN	27-H1700	Conduct Cost-Effectiveness & Incremental Cost Analysis	-803.0d	25-May-07	15-Jun-07	\$ 5,000.00
PD-PN	27-H2920	Prepare AFB Package	-808.0d	29-May-07	10-Jul-07	\$ 22,000.00
PD-PN	27-H1720	Compare Alternative Plans & Select Tentatively Selected	-808.0d	25-Jun-07	10-Jul-07	\$ 7,500.00

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Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
PD-PN	27-H1800	Plan Submit AFB Documentation to HQ and SFRTF	-808.0d	01-Aug-07	02-Aug-07	\$ 1,200.00
PD-PN	27-H2300	SAJ Response to HQ Policy Review Comments	-808.0d	05-Sep-07	11-Sep-07	\$ 3,600.00
PD-PN	27-H1810	AFB Meeting	-808.0d	12-Sep-07	12-Sep-07	\$ 1,500.00
PD-PN	27-H2070	Selected Alternative Plan (SAP)	-808.0d	13-Aug-07	26-Sep-07	\$ 11,000.00
PD-PN	27-H2095	Next Added Increment Analysis	-681.0d	29-Nov-07	31-Dec-07	\$ 17,500.00
PD-PN	27-H1330	Compile (Preliminary) Draft PIR/NEPA	-745.0d	10-Apr-08	09-May-08	\$ 15,000.00
PD-PN	27-H2330	Incorporate In-House, RECOVER & ITR Comments on Prelim Draft PIR/NEPA	-808.0d	25-Aug-08	15-Sep-08	\$ 7,500.00
PD-PN	27-H1020	Complete Draft PIR/NEPA Document for NEPA Review	-808.0d	16-Sep-08	24-Sep-08	\$ 5,000.00
PD-PN	27-H2320	SAJ Response to HQ Policy Review Comments	-798.5d	02-Dec-08	15-Dec-08	\$ 7,500.00
PD-PN	27-H1000	In Progress Review	-798.5d	16-Dec-08	22-Dec-08	\$ 3,000.00
PD-PN	27-H2110	Quantify Water Made Available	-741.0d	19-Feb-08	17-Mar-08	\$ 6,000.00
PD-PN	27-H2120	Savings Analysis	-728.0d	19-Feb-08	17-Mar-08	\$ 6,000.00
PD-PN	27-H2130	Identify Water to be Reserved	-741.0d	18-Mar-08	19-May-08	\$ 14,000.00
PD-PN	27-H2830	Public Workshop on Draft PIR	-808.0d	10-Nov-08	12-Nov-08	\$ 3,000.00
PD-PN	27-H1080	Respond to Public Comments on Draft PIR/NEPA	-808.0d	08-Dec-08	21-Jan-09	\$ 22,000.00
PD-PN	27-H1110	Assemble Final Draft PIR/NEPA for Internal Review	-808.0d	22-Dec-08	23-Jan-09	\$ 3,000.00
PD-PN	27-H1170	Prepare Final PIR/NEPA for Submittal to MSC	-808.0d	02-Apr-09	15-Apr-09	\$ 7,500.00
PD-PN	27-H1230	Respond to State, Agency and Public Comments	-640.0d	22-Jun-09	20-Jul-09	\$ 15,000.00
PD-PN	27-H1240	HQ/MSC Review Conference	-640.0d	14-Jul-09	20-Jul-09	\$ 3,600.00
PD-PN	27-H1250	Policy Review Documentation	-640.0d	21-Jul-09	29-Jul-09	\$ 5,000.00
PD-PN	27-H2465	VE 30% P&S Package (VE Workshop)	719.0d	08-Nov-10	01-Dec-10	\$ 1,600.00
Resource Sub Total						\$ 253,602.49

PD-R

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Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
PD-R	27-1080	Internal Review of Draft PMP		22-Aug-05 A	26-Aug-05 A	\$ 3,600.00
Resource Sub Total						\$ 3,600.00
RE-P						
RE-P	27-H3265	Preliminary RE Planning Map of Alternatives	-704.0d	28-Apr-06	25-May-06	\$ 15,000.00
RE-P	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 100.00
RE-P	27-H2085	Prepare Planning Maps	-808.0d	18-Jan-08	20-May-08	\$ 12,000.00
Resource Sub Total						\$ 27,100.00
RE-S						
RE-S	27-1060	Prepare Draft PMP		01-Jul-05 A	19-Aug-05 A	\$ 1,000.00
RE-S	27-H3285	Gross Appraisal	-808.0d	11-Jun-08	23-Jul-08	\$ 29,000.00
RE-S	27-H2960	Obtain Real Estate Rights of Entry Geotech, Survey, Environmental & Cultural	1869.0d	30-Jan-06	27-Mar-06	\$ 21,000.00
RE-S	27-H1670	Develop Planning Cost Estimate (Real Estate)	-691.0d	10-Aug-06	27-Sep-06	\$ 18,000.00
RE-S	27-H1675	Prepare RE ROM Cost Estimate for YB Plan and Preliminary Alternatives	-679.0d	26-May-06	09-Jun-06	\$ 30,000.00
RE-S	27-H2925	RE AFB Input	-808.0d	29-May-07	10-Jul-07	\$ 7,500.00
RE-S	27-H2080	Prepare Real Estate Appendix	-808.0d	13-Sep-07	17-Jan-08	\$ 45,000.00
RE-S	27-H2320	SAJ Response to HQ Policy Review Comments	-798.5d	02-Dec-08	15-Dec-08	\$ 1,200.00
RE-S	27-H3315	Complete REP	-808.0d	24-Jul-08	08-Aug-08	\$ 12,000.00
RE-S	27-H3325	Final REP	-692.0d	11-Aug-08	26-Aug-08	\$ 3,200.00
Resource Sub Total						\$ 167,900.00
AESVCS						
AESVCS	27-H1530	Compile Existing and Future Without Conditions	-698.0d	07-Feb-06	24-Mar-06	\$ 10,000.00
AESVCS	27-H1450	Hydrologic, Physical and Subsurface Data Collection	1818.0d	12-Apr-06	14-Jul-06	\$ 120,000.00

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Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
AESVCS	27-H3000	A-E Contract Procurement for Water Quality / Ecologic Data Collection	-737.0d	16-Dec-05	14-Feb-06	\$ 150,000.00
AESVCS	27-H2980	Survey Data Collection for Models	1890.0d	28-Dec-05	03-Apr-06	\$ 113,000.00
AESVCS	27-H2010	Obtain SAP Geotechnical & Survey Data	-743.0d	27-Nov-07	03-Mar-08	\$ 113,000.00
AESVCS	27-H2465	VE 30% P&S Package (VE Workshop)	719.0d	08-Nov-10	01-Dec-10	\$ 24,500.00
Resource Sub Total						\$ 530,500.00
CONSTSVCS						
CONSTSVCS	27-H2610	Construction	-808.0d	13-Jun-12	08-Jan-14	\$ 153,799,000.00
Resource Sub Total						\$ 153,799,000.00
GIS						
GIS	27-H1570	Compare Existing Condition to Pre-CERP Baseline	-808.0d	02-Mar-07	15-Mar-07	\$ 5,805.60
GIS	27-H1531	GIS Support to Compile Existing and Future Without Conditions	-698.0d	13-Mar-06	24-Mar-06	\$ 6,382.40
GIS	27-H2100	Develop Draft Project Operating Manual	-741.0d	12-Oct-07	15-Feb-08	\$ 5,805.60
GIS	27-H2110	Quantify Water Made Available	-741.0d	19-Feb-08	17-Mar-08	\$ 5,805.60
GIS	27-H2130	Identify Water to be Reserved	-741.0d	18-Mar-08	19-May-08	\$ 6,386.16
Resource Sub Total						\$ 30,185.36
GSAVEH						
GSAVEH	27-H2935	GP Truck FY06	175.0d	01-Nov-05	29-Sep-06	\$ 512.00
GSAVEH	27-H2945	GP Truck FY07 and Beyond	175.0d	02-Oct-06	28-Sep-07	\$ 500.00
Resource Sub Total						\$ 1,012.00
GTRUCK-GP1						
GTRUCK-GP1	27-H1015	GP Truck FY05		01-Jun-05 A	30-Sep-05 A	\$ 80.00
Resource Sub Total						\$ 80.00

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Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
OTHCONSV						
OTHCONSV	27-H1950	Hold NEPA Scoping Meeting	-520.0d	09-Jan-06	09-Jan-06	\$ 10,000.00
OTHCONSV	27-H2250	Phase 1 Cultural Resource Surveys and Coordination	-251.0d	01-Mar-06	29-Sep-06	\$ 140,000.00
Resource Sub Total						\$ 150,000.00
SHOP/FACIL						
SHOP/FACIL	27-H1305	Printing FY05		01-Jul-05 A	30-Sep-05 A	\$ 500.00
SHOP/FACIL	27-H1315	Printing FY06	1081.0d	03-Oct-05	29-Sep-06	\$ 1,000.00
SHOP/FACIL	27-H2965	Printing FY06 and Beyond	1061.0d	03-Oct-05 A	30-Oct-06	\$ 1,200.00
SHOP/FACIL	27-H2990	A-E Contract Procurement (Survey)	1890.0d	25-Nov-05	27-Dec-05	\$ 7,500.00
SHOP/FACIL	27-H2980	Survey Data Collection for Models	1890.0d	28-Dec-05	03-Apr-06	\$ 22,500.00
Resource Sub Total						\$ 32,700.00
TRAVEL						
TRAVEL	27-H1005	Travel CO FY05		01-Jun-05 A	30-Sep-05 A	\$ 600.00
TRAVEL	27-H1105	Travel DP FY05		01-Jun-05 A	30-Sep-05 A	\$ 600.00
TRAVEL	27-H3280	Travel EN FY05		01-Jun-05 A	30-Sep-05 A	\$ 4,400.00
TRAVEL	27-H3290	EN Travel FY06	853.0d	01-Nov-05	29-Sep-06	\$ 15,400.00
TRAVEL	27-H3300	Travel PD FY05		01-Jun-05 A	30-Sep-05 A	\$ 3,600.00
TRAVEL	27-H3310	Travel PD FY06	1081.0d	01-Nov-05	29-Sep-06	\$ 8,000.00
TRAVEL	27-H2955	EN Travel FY07 and Beyond	853.0d	02-Oct-06	28-Sep-07	\$ 39,000.00
TRAVEL	27-H2975	Travel DP FY06	1764.0d	01-Nov-05	29-Sep-06	\$ 10,000.00
TRAVEL	27-H2985	Travel PD FY07 and Beyond	831.0d	02-Oct-06	28-Sep-07	\$ 6,000.00
TRAVEL	27-H2995	Travel CO FY06 and Beyond	1081.0d	01-Nov-05	29-Sep-06	\$ 14,400.00

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Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
TRAVEL	27-H3005	RE Travel FY06 and Beyond	1081.0d	25-Nov-05	29-Sep-06	\$ 2,400.00
TRAVEL	27-H3015	OC Travel FY06 and Beyond	1081.0d	25-Nov-05	29-Sep-06	\$ 1,500.00
TRAVEL	29-H2976	Travel DP FY07 and Beyond	-580.0d	01-Nov-05	14-Jun-13	\$ 30,000.00
Resource Sub Total						\$ 135,900.00
WKBOOTHCOE						
WKBOOTHCOE	27-H3030	VE FSM Package	-682.0d	31-Aug-06	21-Sep-06	\$ 24,500.00
Resource Sub Total						\$ 24,500.00
WKBOOTHFED						
WKBOOTHFED	27-H3350	USFWS Coordination Act Transfer Funds FY06	581.0d	03-Oct-05 A	29-Sep-06	\$ 152,153.00
WKBOOTHFED	27-H3355	USFWS Coordination Act Transfer Funds FY07	581.0d	02-Oct-06	28-Sep-07	\$ 113,028.00
WKBOOTHFED	27-H3340	USFWS Coordination Act Transfer Funds FY08	581.0d	01-Oct-07	26-Sep-08	\$ 94,039.00
Resource Sub Total						\$ 359,220.00
NAMED EMP						
NAMED EMP	27-1080	Internal Review of Draft PMP		22-Aug-05 A	26-Aug-05 A	\$ 750.00
NAMED EMP	27-1150	Distribute Draft PMP for PRB and Non Federal Sponsor Senior Management Team Review		20-Sep-05 A	25-Oct-05 A	\$ 600.00
NAMED EMP	27-1230	Final Approval by Non Federal Sponsor	-808.0d	26-Oct-05 A	15-Nov-05	\$ 1,800.00
NAMED EMP	27-1010	Initial PMP Coordination Meeting		23-Jun-05 A	23-Jun-05 A	\$ 1,200.00
NAMED EMP	27-1040	Hold PDT Kick-Off Meeting		24-Jun-05 A	24-Jun-05 A	\$ 1,800.00
NAMED EMP	27-1140	Final PMP Incorporate Agency Comments		13-Sep-05 A	19-Sep-05 A	\$ 1,200.00
NAMED EMP	27-H3330	SFWMD Travel and Management FY06	1081.0d	03-Oct-05 A	29-Sep-06	\$ 490.00
NAMED EMP	27-H1560	Identification of Management Measures	-704.0d	29-Mar-06	27-Apr-06	\$ 6,000.00

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Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
NAMED EMP	27-H1572	Define Components & Create Array of Alternatives	-697.0d	28-Apr-06	28-Jun-06	\$ 6,000.00
NAMED EMP	27-H2760	Determine Final Alternative Array	-704.0d	11-Jul-06	09-Aug-06	\$ 3,000.00
NAMED EMP	27-H2720	Preliminary Screening of Conceptual Alternatives	-704.0d	26-May-06	10-Jul-06	\$ 3,000.00
NAMED EMP	27-H1600	Feasibility Scoping Meeting	-683.0d	07-Nov-06	08-Nov-06	\$ 1,200.00
NAMED EMP	27-H2910	Prepare FSM Package	-683.0d	10-Aug-06	30-Aug-06	\$ 3,000.00
NAMED EMP	27-H1360	Identify Problems, Opportunities, Objectives & Constraints	-808.0d	23-Nov-05	14-Dec-05	\$ 6,000.00
NAMED EMP	27-H2960	Obtain Real Estate Rights of Entry Geotech, Survey, Environmental & Cultural	1869.0d	30-Jan-06	27-Mar-06	\$ 325.00
NAMED EMP	27-H1380	Inventory and Forecast Hydrologic & Geologic Resources	-698.0d	24-Jan-06	24-Mar-06	\$ 6,000.00
NAMED EMP	27-H2980	Survey Data Collection for Models	1890.0d	28-Dec-05	03-Apr-06	\$ 1,800.00
NAMED EMP	27-H1390	Inventory and Forecast Ecological & Cultural Resources	-737.0d	25-Nov-05	27-Jan-06	\$ 3,000.00
NAMED EMP	27-H1400	Inventory and Forecast Economic Resources	-795.0d	25-Nov-05	27-Jan-06	\$ 1,200.00
NAMED EMP	27-H1430	Identify Performance Measures	-808.0d	15-Dec-05	16-Feb-06	\$ 9,000.00
NAMED EMP	27-H1435	RECOVER Review of Project Performance Measures	-808.0d	30-Dec-05	28-Mar-06	\$ 1,800.00
NAMED EMP	27-H1460	Water Quality / Ecologic Data Collection	-737.0d	15-Feb-06	18-May-06	\$ 52,500.00
NAMED EMP	27-H1480	Hydrologic Model Selection	-808.0d	01-Mar-06	28-Mar-06	\$ 6,000.00
NAMED EMP	27-H1490	Identify Simulation Models (Ecologic)	-666.0d	18-Apr-06	20-Jul-06	\$ 1,800.00
NAMED EMP	27-H1500	Simulation Models (Water Quality)	-808.0d	09-Nov-06	14-Feb-07	\$ 18,000.00
NAMED EMP	27-H1520	Model Existing & Without Plan Conditions	-808.0d	08-Nov-06	15-Mar-07	\$ 6,000.00
NAMED EMP	27-H1530	Compile Existing and Future Without Conditions	-698.0d	07-Feb-06	24-Mar-06	\$ 9,000.00
NAMED EMP	27-H1540	RECOVER Assistance with Development of Existing & Future Without Conditions	-659.0d	23-Nov-05	27-Jan-06	\$ 12,000.00
NAMED EMP	27-H1730	Compile Comments/Issues/Concerns; Finalize Problems & Opportunities	-491.0d	10-Jan-06	22-Feb-06	\$ 600.00
NAMED EMP	27-H1750	Detailed Inventory Ecological, Water Quality	-570.0d	01-Mar-06	14-Jun-06	\$ 6,000.00
NAMED EMP	27-H1940	Conduct NEPA Scoping Activities	-671.0d	25-Nov-05	06-Jan-06	\$ 1,500.00
NAMED EMP	27-H1950	Hold NEPA Scoping Meeting	-520.0d	09-Jan-06	09-Jan-06	\$ 600.00
NAMED EMP	27-H3030	VE FSM Package	-682.0d	31-Aug-06	21-Sep-06	\$ 5,600.00

App F Tab A - Resource and Role Assignments

WBS 129011 CERP Everglades National Park Seepage Management

Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
NAMED EMP	27-H2465	VE 30% P&S Package (VE Workshop)	719.0d	08-Nov-10	01-Dec-10	\$ 5,600.00
NAMED EMP	27-H1580	ITR of FSM Package	-683.0d	31-Aug-06	21-Sep-06	\$ 6,000.00
NAMED EMP	27-H1660	Develop Planning Cost Estimates (Engineering, Construction, O&M)	-788.0d	16-Nov-06	22-Mar-07	\$ 1,200.00
NAMED EMP	27-H1570	Compare Existing Condition to Pre-CERP Baseline	-808.0d	02-Mar-07	15-Mar-07	\$ 1,200.00
NAMED EMP	27-H1710	Life Cycle Costing	-769.0d	23-Mar-07	06-Apr-07	\$ 1,200.00
NAMED EMP	27-H1650	Model & Evaluate Alternatives (compare with & without plan)	-808.0d	24-Jan-07	26-Apr-07	\$ 18,000.00
NAMED EMP	27-H1690	System Wide Evaluation (RECOVER)	-808.0d	20-Apr-07	22-Jun-07	\$ 3,000.00
NAMED EMP	27-H1720	Compare Alternative Plans & Select Tentatively Selected Plan	-808.0d	25-Jun-07	10-Jul-07	\$ 3,000.00
NAMED EMP	27-H2160	Non Federal Sponsor Coordination	-808.0d	13-Sep-07	26-Sep-07	\$ 1,800.00
NAMED EMP	27-H1990	Develop Draft Scope of TSP Exploration Plan & Confirm with Sponsor	-708.0d	11-Jul-07	24-Jul-07	\$ 1,800.00
NAMED EMP	27-H2070	Selected Alternative Plan (SAP)	-808.0d	13-Aug-07	26-Sep-07	\$ 3,000.00
NAMED EMP	27-H2090	Perform SAP H&H Analysis	-745.0d	13-Sep-07	28-Nov-07	\$ 3,000.00
NAMED EMP	27-H2970	Obtain Real Estate Rights of Entry	-743.0d	27-Sep-07	26-Nov-07	\$ 1,200.00
NAMED EMP	27-H2100	Develop Draft Project Operating Manual	-741.0d	12-Oct-07	15-Feb-08	\$ 1,500.00
NAMED EMP	27-H2040	Perform SAP Geotech Analysis	-743.0d	27-Nov-07	03-Mar-08	\$ 600.00
NAMED EMP	27-H2150	Prepare MCASES Cost Estimate	-745.0d	03-Apr-08	02-May-08	\$ 300.00
NAMED EMP	27-H2710	RECOVER Review of Preliminary Draft PIR	-745.0d	12-May-08	23-May-08	\$ 1,200.00
NAMED EMP	27-H1020	Complete Draft PIR/NEPA Document for NEPA Review	-808.0d	16-Sep-08	24-Sep-08	\$ 300.00
NAMED EMP	27-H2110	Quantify Water Made Available	-741.0d	19-Feb-08	17-Mar-08	\$ 3,000.00
NAMED EMP	27-H2120	Savings Analysis	-728.0d	19-Feb-08	17-Mar-08	\$ 3,000.00
NAMED EMP	27-H2130	Identify Water to be Reserved	-741.0d	18-Mar-08	19-May-08	\$ 3,000.00
NAMED EMP	27-H1960	Evaluation of Environmental Effects/Benefits & Compliance	-803.0d	27-Apr-07	24-May-07	\$ 6,000.00
NAMED EMP	27-H1640	Develop Preliminary Design for Alternatives	-788.0d	08-Nov-06	15-Mar-07	\$ 1,500.00
NAMED EMP	27-H3275	Physical Takings Analysis/non-Standard Estates	-736.0d	18-Jan-08	07-Feb-08	\$ 1,500.00
NAMED EMP	27-H2060	Develop Project Monitoring Plan	-745.0d	02-Jan-08	02-May-08	\$ 3,000.00
NAMED EMP	27-H2830	Public Workshop on Draft PIR	-808.0d	10-Nov-08	12-Nov-08	\$ 1,800.00

App F Tab A - Resource and Role Assignments

WBS 129011 CERP Everglades National Park Seepage Management

Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
NAMED EMP	27-H1070	Public & Agency Review of PIR/NEPA	-808.0d	10-Nov-08	29-Dec-08	\$ 3,600.00
NAMED EMP	27-H1150	ITR/Legal Review of Final PIR/NEPA	-808.0d	17-Feb-09	18-Mar-09	\$ 1,800.00
NAMED EMP	27-H1230	Respond to State, Agency and Public Comments	-640.0d	22-Jun-09	20-Jul-09	\$ 1,500.00
NAMED EMP	27-H1830	PIR/FS 1501 Pre-Application Meeting (Reasonable Certainty)	-575.0d	27-Sep-07	27-Sep-07	\$ 1,200.00
NAMED EMP	27-H3050	Preparation of 1501 Pre App Mtg Summary	-575.0d	28-Sep-07	12-Oct-07	\$ 600.00
NAMED EMP	27-H1840	1501 Pre App Mtg Summary Reviewed by FDEP	-575.0d	15-Oct-07	26-Oct-07	\$ 600.00
NAMED EMP	27-H3200	Assemble 1501 Submittal	-722.0d	12-May-08	23-May-08	\$ 6,000.00
NAMED EMP	27-H1850	Submittal Briefing with FDEP (Reasonable Certainty)	-804.0d	25-Sep-08	26-Sep-08	\$ 1,200.00
NAMED EMP	27-H1130	State 1501 Review & Approval (Reasonable Certainty)	-807.0d	02-Oct-08	04-Dec-08	\$ 1,200.00
NAMED EMP	27-H1140	Incorporate State 1501 Comments	-807.0d	05-Dec-08	18-Dec-08	\$ 1,200.00
NAMED EMP	27-H2640	SFWMD GB Grants Rule Development Authority	-498.0d	03-Sep-09	24-Sep-09	\$ 9,000.00
NAMED EMP	27-H2650	Public Workshops for Rule Development	-498.0d	25-Sep-09	27-Nov-09	\$ 25,800.00
NAMED EMP	27-H2660	SFWMD GB Approves Rulemaking Authority	-498.0d	30-Nov-09	18-Dec-09	\$ 3,000.00
NAMED EMP	27-H2670	Review Period for Draft Rule	-498.0d	21-Dec-09	04-Mar-10	\$ 3,000.00
NAMED EMP	27-H2680	SFWMD GB Adopts Rule	-498.0d	05-Mar-10	25-Mar-10	\$ 3,000.00
NAMED EMP	27-H2690	Notice of Change Published in FAW	-498.0d	26-Mar-10	26-Apr-10	\$ 1,500.00
NAMED EMP	27-H2700	File with the Florida Department of State	-498.0d	21-May-10	04-Jun-10	\$ 1,500.00
NAMED EMP	27-H2460	30 % P & S Preparation	-808.0d	07-Jul-10	05-Nov-10	\$ 3,000.00
NAMED EMP	27-H2470	60% P & S Preparation	-808.0d	08-Nov-10	10-Feb-11	\$ 3,000.00
NAMED EMP	27-H2180	Federal Permit(s) NPDES Construction Activities Application by Local Sponsor	-808.0d	27-Sep-07	11-Oct-07	\$ 1,500.00
NAMED EMP	27-H2730	1502 WQC Pre-Application (CERPRI) Mtg (Reasonable Assurances)	-787.0d	08-Nov-10	08-Nov-10	\$ 4,500.00
NAMED EMP	27-H3100	Prepare 1502 Application Package	-787.0d	09-Nov-10	11-Jan-11	\$ 6,000.00
NAMED EMP	27-H1890	Submit 1502 WQC Permit Applications	-808.0d	11-Feb-11	14-Feb-11	\$ 1,200.00
NAMED EMP	27-H1900	State 1502 Application Completeness Review	-808.0d	15-Feb-11	17-Mar-11	\$ 3,000.00
NAMED EMP	27-H3120	Prepare and Submit Response to RAI	-808.0d	18-Mar-11	18-Apr-11	\$ 3,000.00

App F Tab A - Resource and Role Assignments

WBS 129011 CERP Everglades National Park Seepage Management

Office	Activity ID	Activity Name	Total Float	Start	Finish	Budgeted Cost
NAMED EMP	27-H1910	State Agency Action Review	-808.0d	19-Apr-11	20-Jul-11	\$ 1,500.00
NAMED EMP	27-H1920	Publish Notice of Intent of Draft Permit	-808.0d	21-Jul-11	19-Aug-11	\$ 600.00
NAMED EMP	27-H2750	State Issues Final Agency Action (if no petitions are filed)	-808.0d	22-Aug-11	26-Aug-11	\$ 300.00
NAMED EMP	27-H2350	Prepare Draft PCA	-808.0d	30-Aug-11	20-Sep-11	\$ 6,000.00
NAMED EMP	27-H2360	PCA Approved by Non Federal Sponsor	-808.0d	21-Sep-11	21-Oct-11	\$ 1,200.00
NAMED EMP	27-H2400	Land Certification Request to NFS	-808.0d	04-Jan-12	10-Jan-12	\$ 6,000.00
NAMED EMP	27-H2410	RE Certification Package	-808.0d	26-Jan-12	01-Feb-12	\$ 6,000.00
NAMED EMP	27-H2420	RE Certification	-808.0d	02-Feb-12	08-Feb-12	\$ 3,000.00
NAMED EMP	27-H2600	Issue Notice to Proceed	-808.0d	11-May-12	12-Jun-12	\$ 600.00
NAMED EMP	27-H2620	Interim Operational Period	-808.0d	09-Jan-14	11-Apr-14	\$ 18,000.00
NAMED EMP	27-H2630	Contract Physically Complete	-808.0d	14-Apr-14	13-May-14	\$ 6,000.00
NAMED EMP	27-H2635	Post Construction Monitoring	-148.0d	14-May-14	14-May-14	\$ 10,000.00
NAMED EMP	27-H2961	Draft Water Control Plan	1486.0d	27-Sep-07	08-Nov-07	\$ 3,000.00
NAMED EMP	27-H3000	A-E Contract Procurement for Water Quality / Ecologic Data Collection	-737.0d	16-Dec-05	14-Feb-06	\$ 12,000.00
NAMED EMP	27-H2790	Compile FSM submittals for Ecol., WQ. and CR	-579.0d	01-Mar-06	14-Mar-06	\$ 6,000.00
NAMED EMP	27-H2080	Prepare Real Estate Appendix	-808.0d	13-Sep-07	17-Jan-08	\$ 7,500.00
NAMED EMP	27-H3285	Gross Appraisal	-808.0d	11-Jun-08	23-Jul-08	\$ 750.00
NAMED EMP	27-H1535	HTRW Assessment	-698.0d	07-Feb-06	24-Mar-06	\$ 1,500.00
NAMED EMP	27-H2610	Construction	-808.0d	13-Jun-12	08-Jan-14	\$ 15,600.00
Resource Sub Total						\$ 451,915.00
5550						
5550	27-H2405	RE Acquisition	-808.0d	11-Jan-12	25-Jan-12	\$ 166,329,000.00
Resource Sub Total						\$ 166,329,000.00

Project Start: 01-Jun-05
A

App F Tab A - Resource and Role Assignments

WBS 129011 CERP Everglades National Park Seepage Management
Office Activity ID Activity Name

Total Float Start

Finish

Budgeted Cost

Project Start: 15-May-14

Project Total: \$ 353,014,261.87

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APPENDIX G: CONTRACTING ACQUISITION PLAN

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Appendix G Contracting Acquisition Plan

Contract specific acquisition strategies will be developed for each individual contract to be advertised and awarded under the ENP Seepage Management Project. The Project Manager will be responsible for coordinating with the Contracting representative on the Project Team, the procuring Agency office responsible for socioeconomic programs and the procuring Agency Contracting Officer to develop the appropriate acquisition strategy as early as possible in the project formulation process. Procurement statutes, regulations and procedures applicable to the procuring Agency (Corps or SFWMD) will dictate the acquisition process. Factors to be considered in determining the specific acquisition strategies include but are not limited to: technical complexity of the work, environmental considerations/constraints, construction schedules and magnitude of construction. Socioeconomic statutes, regulations and procedures applicable to the respective procuring Agency will be applied to each individual acquisition. Acquisition strategies will be fully staffed through the Project Team, the Design Coordination Team and appropriate procuring Agency approving Officials.

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APPENDIX H: QUALITY CONTROL PLAN

TAB A – Independent Technical Review Team

TAB B – Statement of Technical and Legal Review

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A two-tiered quality control process is planned at the time for the ENP Seepage Management Project. First, Division, Branch, and Section Chiefs within the Jacksonville District are responsible for assuring a quality review of products produced by their organizations. Second, at least four PIR sub-products will be subjected to Independent Technical Review (ITR). The ITR of these four products is formalized in the project schedule as the following list of activities:

- Activity 27-H1580, ITR of FSM Package
- Activity 27-H1770, ITR of AFB Package
- Activity 27-H1030, ITR on Draft PIR/NEPA Document
- Activity 27-H1150, ITR/Legal Review of Final PIR/NEPA

A description of the ITR Team is provided in Tab A and will be updated as the PIR phase progresses. An example of the final ITR and Legal Certifications that will be prepared for the Final PIR/NEPA Document are provided in Tab B.

TAB A – Independent Technical Review Team

The ITR team members shall be senior professionals that are selected by their respective technical division chief. Selection is based on the expertise needed for the project. Reviewers shall not be affiliated with the development of the PIR. Their assignment is to confirm the proper application of clearly established criteria, regulations, laws, codes, principles, and professional procedures. A few members of the ITR team are listed in Table H-A-1, below.

TABLE H-A-1: INDEPENDENT TECHNICAL REVIEW TEAM

Name	Agency	Specialty
James M Baker	CESAJ-PD-PF	ITR Lead and Plan Formulation
TBD	CESAJ-PD-E	Environmental Analysis and NEPA Compliance
TBD	CESAJ-PD-E	Water Quality and HTRW
TBD	CESAJ-PD-D	Social and Economic Analysis
TBD	CESAJ-CO-CQ	Construction and Operations
TBD	CESAJ-RE-S	Real Estate
TBD	CESAJ-OC	Legal
Jimmy D. Matthews	CESAJ-EN-T/EN-DL	Engineering ITR Lead and Levees and Waterways
TBD	CESAJ-EN-C	Cost Engineering
TBD	CESAJ-EN-GG	Geosystems – Geology
TBD	CESAJ-EN-GS	Geosystems – Soils
TBD	CESAJ-EN-GE	Geosystems - Environmental
TBD	CESAJ-EN-DS	Engineering Design – Structures
TBD	CESAJ-EN-HH	Engineering – Hydraulics

Name	Agency	Specialty
TBD	CESAJ-EN-HI	Engineering - Hydrology
TBD	CESAJ-EN-HW	Water Management and Meteorology

TAB B – Statement of Technical and Legal Review

ER 1110-2-1150

31 Aug 99

F1-1

**STATEMENT OF TECHNICAL AND LEGAL REVIEW
SAMPLE****COMPLETION OF INDEPENDENT TECHNICAL REVIEW:**

The District has completed the Project Implementation Report for the Everglades National Park Seepage Management Project, Miami-Dade County, Florida. Notice is hereby given that an independent technical review, that is appropriate to the level of risk and complexity inherent in the project, has been conducted as defined in the Quality Control Plan. During the independent technical review, compliance with established policy principles and procedures, utilizing justified and valid assumptions were verified. This included review of assumptions; methods, procedures, and material used in analyses; alternatives evaluated; the appropriateness of data used and level of data obtained; and reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing USACE policy. The independent technical review was accomplished by (an independent district team/personnel from the District/by AE contractor).

(Signature)

(Date)

Jim Baker, Technical Review Team Leader

CERTIFICATION OF INDEPENDENT TECHNICAL REVIEW:

Significant concerns and the explanation of the resolution are as follows:

(Describe the major technical concerns, possible impact, and resolution)

As noted above, all concerns resulting from independent technical review of the project have been considered. The report and all associated documents required by the National Environmental Policy Act have been fully reviewed.

(Signature) (Date)
Tiphonie Taylor, Project Manager

(Signature) (Date)
Stu Appelbaum, Chief, Planning Division

(Signature) (Date)
Steve Duba, Chief, Engineering Division

(Signature) (Date)
Alan Bugg, Chief, Operations Division

(Signature) (Date)
Bart Wivell, Chief, Real Estate Division

CERTIFICATION OF LEGAL REVIEW:

The report for Everglades National Park Seepage Management, including all associated documents required by the National Environmental Policy Act, has been fully reviewed by the Office of Counsel, Jacksonville District and is approved as legally sufficient.

(Signature)

(Date)

John Brady, Acting District Counsel

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APPENDIX I: PUBLIC INVOLVEMENT

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APPENDIX I

Public Involvement

Public involvement is a critical component of the ENP Seepage Management project due to the intense public, political, and media interest in the restoration of the Everglades ecosystem. Public Outreach efforts began early in the reconnaissance phase of the C&SF Project Comprehensive Review Study (Restudy). At this time, the study area of the Restudy included the study area of the Project. Such efforts were a very important and integral part of the plan formulation stages of the Project and will continue throughout implementation of the preferred plan components.

Public involvement is a process by which interested and affected individuals, organizations, agencies, and governmental entities participate in a decision-making process. Public involvement has been, and will continue to be, a critical component of the Project, scoping, plan formulation, report writing, and implementation process. Three goals for public involvement have been identified and implemented throughout the process:

- To inform the public about the Project and to generate input on key issues and concerns. This input involves diverse groups outside of the study team who assisted early on in the process of problem definition, issue and opportunity identification, as well as providing input on potential solutions;
- Develop relationships critical to the success of the study and implementation of the recommendations of the study; and
- Facilitate open and honest discussions that enhance efforts to foster public understanding of the tradeoffs and complexities of developing multipurpose water resources.
- Support an exchange of ideas and information among interested individuals and stakeholder groups critical to resolving the challenges involved in an environmental restoration effort of this magnitude.

Further, obligations of the U.S. Army Corps of Engineers (USACE) and South Florida Water Management District (SFWMD) as lead agencies are to:

- Keep people informed so that they can make educated choices;
- Provide visible ways to participate in the process; and
- Provide equal access to information and decision-makers regardless of viewpoint.

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APPENDIX J: LIST OF REFERENCES

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APPENDIX J

List of Reference Documents

U.S. Army Corps of Engineers, Jacksonville District, 1999, Central and Southern Florida Project Comprehensive Review Study, Final Integrated Feasibility Report and Programmatic Environmental Impact Statement; South Florida Water Management District, West Palm Beach, FL, April 1999

Project Management Plan for Restoration Coordination and Verification (RECOVER), Draft, February 2001

Engineering Regulations (ER), U.S. Army Corps of Engineers

1. ER 11-1-321
2. ER 200-2-2, Policy and Procedures for Implementation of NEPA, 4 Mar 88
3. ER 1105-2-100, Planning Guidance Notebook, 22 Apr 00
4. ER 1110-1-1300, Engineering and Design, Cost Engineering Policy and General Requirements
5. ER 1110-1-8156, Engineering and Design, Policies, Guidance, and Requirements for Geospatial Data and Systems, 1 Aug 96
6. ER 1110-2-1150, Engineering and Design for Civil Works Projects, 31 Aug 99
7. ER 1110-2-1302, Civil Works Cost Engineering
8. ER 1165-2-132, HTRW Guidance for Civil Works Projects

Engineering Manuals (EM), U.S. Army Corps of Engineers

1. EM 1110-1-2909, Engineering and Design, Geospatial Data and Systems

Engineering Publications

1. EP 1110-1-8, Equipment Cost

Water Resources Development Act (WRDA)

1. 1999, CERP
2. 2000, Everglades Provision, Title VI, 11 Dec 00

Principles and Guidelines (P&G) for Water and Related Land Resources

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.

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APPENDIX K: LIST OF PMP UPDATES AND REVISIONS

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TABLE K-1 : LIST OF PMP UPDATES AND REVISIONS[illegible]

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APPENDIX L: VALUE ENGINEERING PLAN

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Appendix L

Value Engineering Plan

Value Engineering (VE) is an organized study that produces a quality product, which satisfies the project's needs at the lowest life cycle cost. The process involves developing a VE Job Plan that is the systematic procedure and framework for accomplishing all the necessary tasks associated with the VE process. Adherence to a definite plan is essential to obtaining the best value alternatives. The use of the VE Job Plan provides:

- Compliance with Federal law, OMB Policy and USACE Regulations.
- Logical separation of the project into functional performing elements that can be analyzed, compared to creative alternatives and have net cost and/or benefits assessed.
- Assurance that savings and cost avoidance considers sustainable design supported by life cycle analysis.
- Assurance that consideration has been given to facts that may have been overlooked or were unknown in the creation of the original project scope or design.
- A proven process to carry the study from inception to conclusion.
- A written record of the VE effort as it progresses.
- A decision process with designers and stakeholders to improve functionality and/or cost effectiveness.

There are five phases to a VE Job Plan, although the number of phases is less important than the systematic approach the VE Job Plan provides. The five phases are:

1. The Information Phase (for information gathering).
2. The Speculation Phase (for the generation of alternatives).
3. The Analysis Phase (for the evaluation of alternatives).
4. The Development Phase (for development of firm proposals).
5. The Presentation Phase (for presentation of recommendations).

The following table summarizes the questions and techniques to be employed in each phase.

TABLE L-1 : SUMMARY OUTLINE OF VE QUESTIONS & TECHNIQUES

Phase Information 1				
Questions	Phase Speculation 2			
What is it? What does it do? What must it do? What must it cost?	Questions	Phase 2 Analysis		
	What else will per-form the function?	Questions	Phase Development 4	
Techniques	Techniques	Will each perform the basic function?	Questions	Phase Presentation 5
Use good human relations.	Use good human relations.	Techniques	Will each perform the basic function?	Techniques
Get facts from best sources. Determine constraints, function and cost of present design.	Use creative thinking. Brainstorm – Simplify, modify, refine.	Use good human relations. Evaluate, compare & refine ideas. Consult experts. Use best judgment.	Techniques	Be brief. Explain before & after condition. Explain advantage & disadvantage. Be clear, concise & convincing. Use good human relations. Follow up.
			Use good human relations. Gather convincing facts. Work on specifics, not generalities. Prepare summary. Spend money like it is your own.	

VE Team Formulation: SAD SOP 11-1-1 Army Programs Regional Value Engineering Standing Operating Procedure South Atlantic Division directs that OVEST will be engaged as the Regional “Provider of choice.” The VE study team will include five to ten members with professional engineering disciplines and experience consistent with project scope and goals. The team may be comprised of both current PDT members and independent third party VE specialist. The VE team should include representation from the Non-federal Sponsor. The Team Leader will serve as the VE study facilitator and should be a senior experienced and skilled VE practitioner, trained in the VE mythology. The study Team Leader may be provided by A-E through existing IDIQ contract with the District or through OVEST. The typical role for OVEST will be as the VE study facilitator, but may also include engineering disciplines matching the project scope. Where A-E services are used for the development of the PIR and/or PED documents, the A-E should also include representatives for the VE study.

The project may have more opportunity to apply the principles described above. The first occasion will occur during the development of the alternatives for the project. If concerns evolve with rising costs, and developing and delivery of economic and/or environmental benefits, another VE study may be convened to review the recommended plan prior to advancement through the final review process of the Project Implementation Report. Other opportunities will occur during the Detailed Design Phase of the project.

Value Engineering certification statement

CESAJ-PD-[X]

Date

SUBJECT: [Project # & Name, Location]

I [PM Name] certify that this procurement action has [completed/waived] the Value Management/Value Engineering process. A VM/VE study was [completed/waived] on [Date]. All VM/VE proposals indicating potential savings over \$1,000,000 have been resolved with approval of the MSC/EC Commander.

SUBMITTED BY:

Project Manager

