

REstoration, COordination, VERification (RECOVER)

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March 14, 2023 Science Coordination Group Meeting







PRESENTATION OUTLINE:

- What are the Functions and Roles of RECOVER?
- What is Adaptive Assessment & Monitoring (AA&M)?
- How does RECOVER Support CERP?
- What Resources does AA&M Need?
- Task Force & Science Coordination Group Request



WHAT ARE THE FUNCTIONS AND ROLES OF RECOVER?



- Ensures CERP implementation is guided by the best available science
- Three Major Missions:
 - Assessment: measuring performance of projects through research and monitoring
 - Evaluation: forecasting project performance through predictive modeling and performance measures
 - Planning: integrating RECOVER with planning and operation of the system

WHAT IS ADAPTIVE ASSESSMENT AND MONITORING (AA&M)?

- Authorized in Water Resources Development Act of 2000
- CERP Programmatic Regulations instruct that RECOVER:
 - 1) Develop an adaptive assessment program to assess system responses to CERP implementation
 - 2) Design and implement a monitoring program to **measure status and trends** towards achieving CERP goals and purposes
 - 3) Use monitoring information as a basis for **conducting assessment** tasks

RECOVER DEVELOPED THE MONITORING AND ASSESSMENT PLAN (MAP) TO ADDRESS THE PRIMARY AAM TASKS









MAP PRODUCTS SUPPORT:

CERP Programmatic Support	 Predictive Evaluation Tools (RECOVER Performance Measures, Habitat Suitability Index Models, USGS Joint Ecological Modeling) Interim Goals and Interim Targets (IG/IT) Evaluation and Assessment Reports (IG/IT, Periodic CERP Update, System Status Report, Report to Congress)
RECOL	- Inform Project Justification during Planning Phase -Regulatory Support
Project-Specific Support	 Leverage & Supplement Project-Level Monitoring Adaptive Management Guidance RECOVER Recommendations to Improve Project Performance Measures, Evaluate Alternatives, Monitoring & Adaptive Management Plans
R	ECOVER support during Design & Implementation (Project Operations, Monitoring and Adaptive Management)
South FL Ecosystem Restoration Support (CERP & non CERP)	 SFWMD annual South Florida Environmental Report South Florida Ecosystem Task Force (System-wide Stoplight Indicator Report & Biennial Report) South Florida Wading Bird Report Inform Water Control Plan Development

- Inform Weekly Water Management Decisions

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WHAT RESOURCES DOES AA&M NEED?

- Coordination/leveraging of agency monitoring data to bridge the gap between current MAP and 2009 MAP
- Continuation or reestablishment of agency monitoring identified as critical in the 2009 MAP

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CERP MONITORING AND ASSESSMENT PLAN



Restoration Coordination and VERification (RECOVER)



Comprehensive Everglades Restoration Plan

Central and Southern Florida Project

Revised

December 2009

HOW CAN THE TASK FORCE ASSIST TO MEET IDENTIFIED NEEDS?

- Direct the Science Coordination Group to:
- ✓ Assign members within their agencies to assist with RECOVER teams and products
- ✓ Provide RECOVER with an inventory of agency monitoring
- ✓ Host a RECOVER Topic Workshop on Monitoring (Summer 2023)

It is critical that all agencies dedicate resources in areas most relevant to their missions and contribution to system-wide restoration.





WHAT IS RECOVER REQUESTING FROM THE SCIENCE COORDINATION GROUP?

- Complete RECOVER Monitoring Survey
 - Excel Spreadsheet/ Refer to "READ ME" Instructions
 - 1 consolidated Survey per Tribe/Agency
- Provide completed survey to Gina Ralph
 - gina.p.ralph@usace.army.mil

Due Date: 14 April 2023





WHAT IS RECOVER REQUESTING FROM THE SCIENCE COORDINATION GROUP?

- Current ecological monitoring that addresses CERP Goal 1
 - Within CERP Footprint
 - Ecological response to CERP implementation
- Information Collected:
 - Indicator(s)
 - Metrics
 - RECOVER region
 - Objectives
 - Frequency
 - Dates
 - POCs

CERP GOALS & OBJECTIVES (USACE 1999)

TABLE 5.1: GOALS AND OBJECTIVES FOR THE C&SF RESTUDY

Goal: Enhance Ecologic Values

- Increase the total spatial extent of natural areas
- Improve habitat and functional quality

Improve native plant and animal species abundance and diversity

Goal: Enhance Economic Values And Social Well Being

- Increase availability of fresh water (agricultural/municipal & industrial)
- Reduce flood damages (agricultural/urban)
- Provide recreational and navigation opportunities
- Protect cultural and archeological resources and values



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HOW WILL RECOVER USE THE INFORMATION COLLECTED?

- Topic Workshop (~July 2023)
- MAP Evaluation
- MAP Update
- CERP Adaptive Management Plan
- Performance Measure Development
- Ecological Planning Tools







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