



the journey to restore
America's Everglades

Michael Wright and John Moorman, SFWMD

**MONITORING PLANS
DEVELOPMENT AND REVIEW**

Monitoring Plans Development

"If you don't know where you're going, any road will get you there."

--The Cheshire Cat, *Alice In Wonderland*

Monitoring Plans Development

Starting Point:

CGM 40 (Water Quality, Hydrology, & Biology)

CGM 42 (Mercury & Pesticides/Herbicides)

Monitoring Plans Development



http://www.evergladesplan.org/pm/program_docs/qasr.aspx

Monitoring Plans Development



US Army Corps
of Engineers

ENVIRONMENTAL QUALITY

Requirements for the Preparation of
Sampling and Analysis Plans

This manual is approved for public release; distribution is unlimited.

ENGINEER MANUAL

EM 210-1-1
1 February 2001

SFWMD-QS-SOP-004-01

Standard Operating Procedure for Preparing Project Monitoring Plans

Version: 01

Document Preparation Date: November 2009
Effective Date: Upon Final Approval

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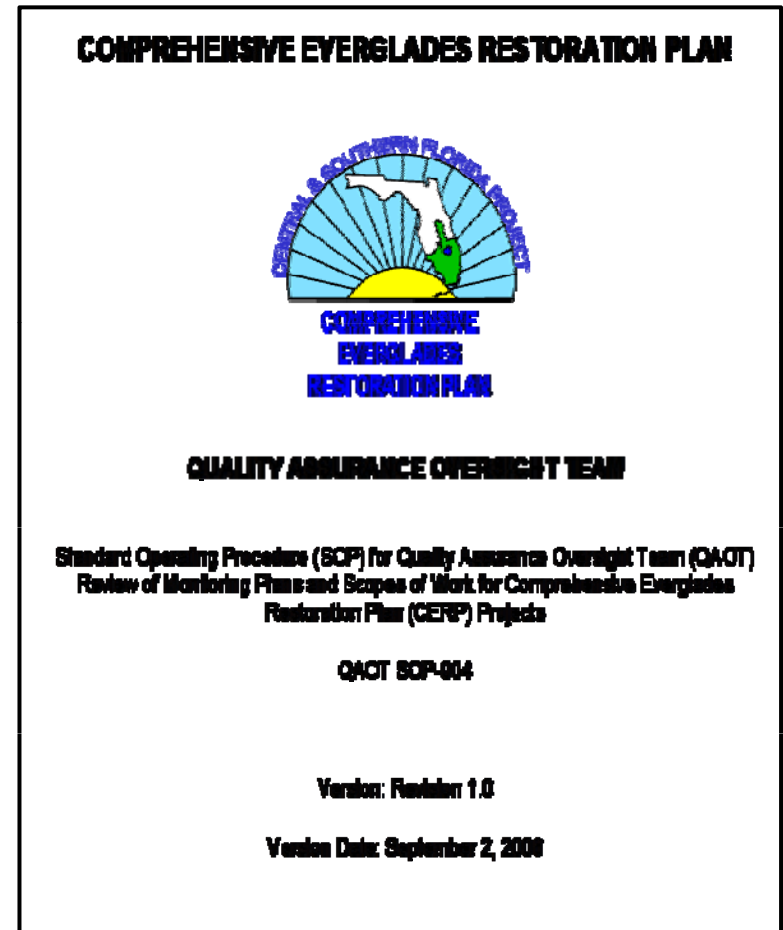
Monitoring Plans Review

Title Page:

- Date and revision number
- Signatures

Project Organization:

- Responsibilities
- Document distribution



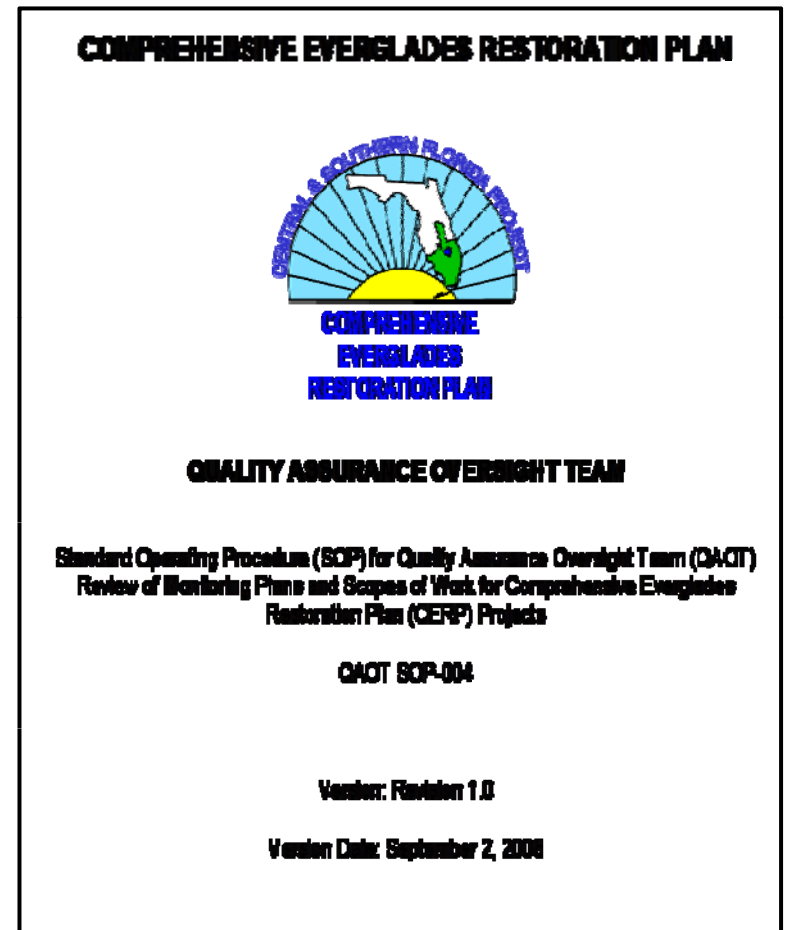
Monitoring Plans Review

Field and Laboratory Procedures:

- Custody and holding times
- Calibration procedures
- QC procedures
- Corrective actions

Data Quality Objectives:

- MDLs, acceptance criteria, etc.
- Project specific needs



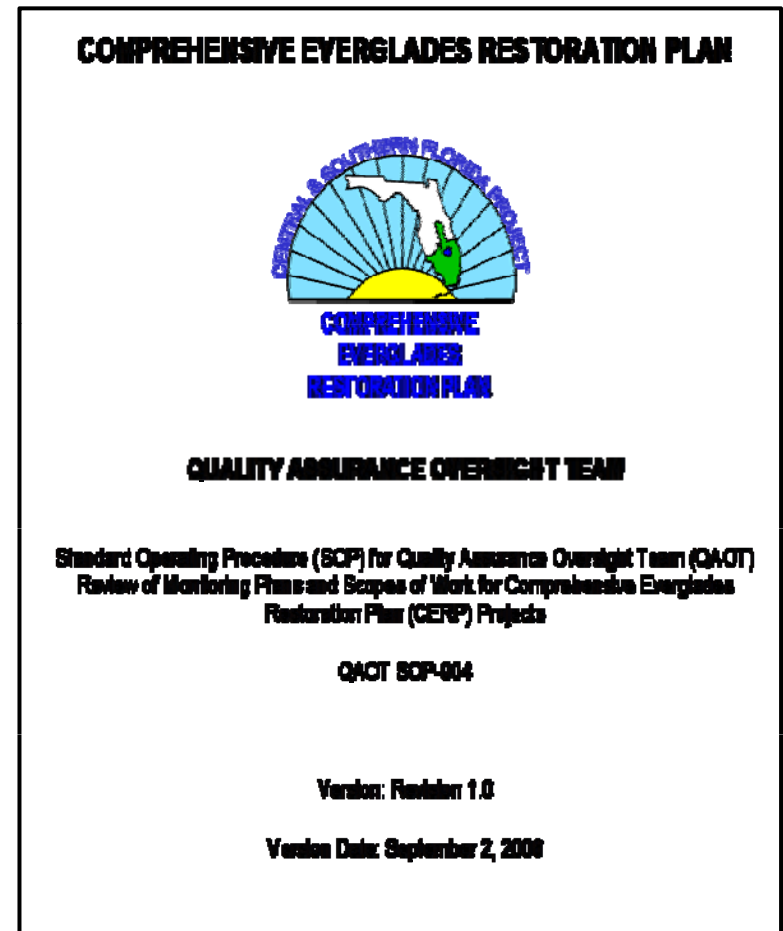
Monitoring Plans Review

Report Documentation:

- Report format
- Data archival

Data Assessment:

- Data verification
- Data validation



Monitoring Plans Template

http://www.evergladesplan.org/pm/program_docs/cerp-guidance-memo.aspx

CERP Guidance Memorandum

South Florida Water Management District – Jacksonville District, U.S. Army Corps of Engineers

CGM NUMBER-REVISION: 040.01

EFFECTIVE DATE: 20 May 2003

CATEGORY: Data Management

SUBJECT: Project-level Water Quality and Hydro-meteorologic Monitoring and Assessment

DESCRIPTION AND BACKGROUND

This memorandum provides guidance to the staff of the Jacksonville District, U.S. Army Corps of Engineers (USACE) and the South Florida Water Management District (SFWMD) and members of Project Delivery Teams (PDT) on how to address and incorporate monitoring and assessment activities and costs in planning, design and implementation documents for Comprehensive Everglades Restoration Plan (CERP) projects. Monitoring and assessment are critical elements for management of CERP projects. The collection of environmental data is important for assessing project area conditions and for evaluating project performance and/or compliance with project related permits. Monitoring programs should be established to enable the tracking of environmental conditions from baseline to after project completion. These activities provide a technical basis for alternative design decisions, operations and evaluation of progress toward restoration goals.

Monitoring Plans Training

Document Development and Review Procedures

Dates: October 3 and 20th, 2011 and November 7th

Includes:

Document Control and Archival Procedures

Development and Review of:

**Monitoring Plans, Work Orders, SOPs and
other QA Documentation**

Location:

SFWMD, West Palm Beach, FL.

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