

# RESTORATION PLANNING PROJECTS



## Integrated Report Format and Content

U.S. Army Corps of Engineers  
Jacksonville District

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# Three Part Approach

**3-Inch  
Report**

**1,200  
pages**

- Main Report
  - Would be limited to approximately 100 pages.
- Appendices
  - Contain essential statutory and supportive information (e.g. Biological Opinion, Recreational Evaluation, etc.).
- Working Files
  - Eliminates the need for massive Appendices and multiple Annexes.
  - Accessible by weblink in document.
  - Kept on file at District Office and available upon request.
  - Information and data such as Cost Risk Analysis, Benefit Model Documentation, etc.

# Example of Typical Report Size

## C-111 Spreader Canal Western Project

### Main Report

			<u>Ideal</u>
Sec1	Introduction	15 pages	8 pages
Sec2	Existing Conditions	38 pages	5 pages
Sec3	FWOP	23 pages	5 pages
	• <i>Comparative Table</i>	<i>10 pages</i>	
Sec4	Problems and Opportunities	8 pages	5 pages
Sec5	Plan Formulation	54 pages	30 pages
Sec6	Recommended Plan	28 pages	15 pages
Sec7	Environmental Effects	36 pages	10 pages
Sec8	Plan Implementation	29 pages	10 pages
	• <i>Project Assurances</i>	<i>6 pages</i>	
Sec9	Project Coordination	11 pages	4 pages
Sec10	DE Recommendation	7 pages	5 pages
Sec11	List of Preparers	<u>2 pages</u>	<u>2 pages</u>
		251 pages	99 pages

# Initial Thoughts

- Reduce the number of Sections to avoid ***duplicate information.***
- Plan Formulation---How much of the story do we need to tell? Can we eliminate “unnecessary detail.”
- Are “Standard” report sections (e.g. Vegetative Communities) needed?
- Be creative with display of descriptions and data.
- Minimize analyses and content that is non-controversial and does not affect a decision (e.g. Aesthetics, Noise).

# New Report Format

- Incorporate Problems and Opportunities into Study Need; Objectives and Constraints into Study Purpose.
- Existing and Future Without Conditions
  - Identify areas of controversy or concern.
  - Utilize comparative table.
- Move **Environmental Effects** section into **Plan Formulation**.
- Merge **Recommended Plan** and **Plan Implementation** Sections.
- New **Environmental Compliance and Coordination** Section w/tables to consolidate duplicate information.

# Existing vs. Proposed Formats

## EXISTING

Sec1	Introduction
Sec2	Existing Condition
Sec3	FWOP Condition
Sec4	Problems & Opportunities
Sec 5	Plan Formulation
Sec 6	Recommended Plan
Sec7	Environmental Effects
Sec8	Plan Implementation
Sec9	Coordination
Sec10	DE Recommendation

## PROPOSED

Sec1	Purpose and Need (10)
Sec2	Current and Future Conditions (12)
Sec3	Plan Formulation (40)
Sec4	Recommended Plan (20)
Sec 5	Environmental/NEPA Compliance (12)
Sec6	DE Recommendation (6)

# SECTION 1.0 PURPOSE AND NEED

- 1.1 Intro
  - 1.1.1 Study Authority
  - 1.1.2 Study Sponsor
- 1.2 Study Area/Scope
- 1.3 Need: Problems and Opportunities
- 1.4 Purpose: Objectives and Constraints

- Related projects section has been eliminated as this material is typically addressed in Existing/FWOP conditions.
- Incorporating P&O into the Introduction helps tell the story and essentially avoids a restatement of the project purpose and need.

# SECTION 2.0      CURRENT AND FUTURE CONDITIONS

- 2.1      Planning Horizon
- 2.2      General Existing Conditions
- 2.3      Forecasted Ecological Setting
- 2.2      Existing vs. FWOP Comparative Table

- Table will be used to provide a brief summary of Existing and FWOP conditions that have a direct effect on Plan Formulation.

# SECTION 3.0 PLAN FORMULATION

- 3.1 Planning Strategy
- 3.2 Summary of Management Measures
- 3.3 Summary of Initial Array of Alternatives
- 3.4 Final Array of Alternatives
  - 3.4.1 Description
  - 3.4.2 Evaluation
  - 3.4.3 Comparison
- 3.5 Environmental Effects
- 3.6 Plan Selection

- The Environmental Effects section will require a substantial effort to concentrate on significant analyses with a reduction of redundant information.
- The Plan Accomplishments section will be incorporated into Plan Selection.

# SECTION 4.0 RECOMMENDED PLAN

- 4.1 Plan Components
- 4.2 Cost Estimate
  - 4.2.1 Project Costs
  - 4.2.2 Economic Costs and Benefits
- 4.3 Cost Sharing
  - 4.3.1 Cost Share Table
- 4.4 Design and Construction
- 4.5 LERR
- 4.6 Operation, Maintenance, Repair, Rehabilitation and Replacement
- 4.7 Project-Specific Considerations
- 4.8 Project Implementation

- Information from the Plan Implementation Section will be incorporated into the Recommended Plan Section.
- Project-Specific Information (e.g. Project Assurances will be briefly summarized).
- Adaptive Management, Monitoring Plan, Recreation Plan, etc. will be incorporated into the Plan Components Section and reference the appropriate appendices.
- Tables will be used for Cost Estimate and Cost Sharing similar to the CWRB Report Summary.

# Recommended Plan

- **Plan Components (3).**

- *Monitoring Plan.*

- *Nuisance and Exotic Vegetation.*

- *DPOM.*

*Move to Plan Components Section*

- **Cost Estimate (3).**

- **Cost Sharing (2)**

- **Design and Construction Considerations (2).**

- **LERR (2).**

- **OMRR&R (2).**

- *Adaptive Management.*

*Move to Plan Components Section*

- *Plan Accomplishments.*

*Move to Plan Formulation Section*

- *NAI.*

- *Implications to C&SF.*

*Move to Project-Specific Considerations*

- *EOP.*

- *Interim Goals and Targets.*

*Move to ES/Plan Formulation Appendix*

- **Project-Specific Considerations (2)**

- **Project Implementation (2)**

## Section 5.0 ENVIRONMENTAL COMPLIANCE

- Cumulative impacts
- Magnitude and significance of cumulative effects
- Incomplete or unavailable information
- Unavoidable adverse impacts
- Irreversible and irretrievable commitments of resources
- Energy requirements and conservation potential
- Environmental commitments
- Environmental compliance table
- Public involvement
  - Scoping
  - Agency coordination
  - List of statement recipients
  - Comments received and response
- List of preparers

# Appendices (885 total pages)

- Engineering (200)
- Cost (60)
- Environmental (375)
- Real Estate (30)
- Plan Formulation (50)
- Economic and Social Considerations (30)
- Recreation (20)
- Modeling (50)
- Draft Project Operating Manual (50)
- Adaptive Management/Monitoring Plan (20)

\* CERP-specific

# Engineering Appendix

Typically multiple formats with no standard across studies.

Revisions:

- Duplicate descriptions of project areas, geology, soils, etc. will be eliminated.
- Cost estimating contained in Cost Appendix.
- Modeling assumptions, data and other information will be transferred to Modeling Appendix and Working Files.
- Value Engineering Report kept on Working File in District Office.

# Engineering Appendix

New Format – 200 pages

- Project Features
- Hydrology and Hydraulics
- Geotechnical
- Mechanical and Electrical
- Operations and Maintenance

# Cost Appendix

New Format – 60 pages

- Planning Estimates
- MCACES
- Total Project Cost Summary
  
- Cost Risk Analysis moved to Working Files

# Environmental Appendix

Example from C-111 Spreader Canal Western Project.

- Pages 1-67      Affected Environment
- Pages 68-126    Benefit Methodology
- **Pages 127-174    Conceptual Ecological Models**
- Pages 175-192   Benefit Model Documentation

# Environmental Appendix

New Format – 375 pages

- Any supporting Documentation for Affected Environment, Environmental Effects, etc.
- ESA/NEPA/FWCA and other statutory information contained in Environmental Appendix and multiple Annexes to include:
  - Biological Assessment
  - Biological Opinion
  - Primary Fish and Wildlife Coordination Act Report (if completed)
  - Coastal Zone Management Act Statement
  - Any other report or information that is required by NEPA in main document.
- Additional information not required in main document kept in Working Files at the District Office.
  
- Benefit Methodology moved to Modeling Appendix.
- Conceptual Ecological Models eliminated.
- Benefit Model Documentation moved to working files.

# Real Estate Appendix

Example from C-111 Spreader Canal Western Project.

- Pages 1-6      Restatement of Location, Scope and Plan Elements
- Pages 7-29      Crediting Considerations, Flooding, Analysis, Estate Analysis, etc.
- Pages 30-56      Entire CERP WRDA Authorization.
- Retain with 30 page total

# Real Estate Appendix

New Format – 30 pages

- Summaries of Crediting Considerations, Flooding Analysis, Estate Analysis, etc.
- Tables and Graphics necessary to support analyses and display results.
- Other additional information and hard data contained in Working Files.

# Plan Formulation Appendix

Example from C-111 Spreader Canal Western Project.

- 49 Pages total
- Descriptions and drawings of Initial Array of Alternatives.
- Detention Area sizing analysis.
- Ecological evaluation with Formulation history.
- Estimates of land requirements for physical features.

# Plan Formulation Appendix

New Format – 50 pages

- Management Measures descriptions, evaluation and screening.
- Initial Array of Alternatives descriptions, evaluation and screening (batch processing and new planning considerations should reduce need for massive amounts of initial alternative descriptions).
- Retain any further information necessary to “tell the story.”
  - Minor phases of alternative development and screening.
  - Siting and/or sizing analyses.
- Supportive information for Final Array Evaluation and Comparison to include 4 Accounts, project-specific criteria, etc.

# Economic and Social Considerations

## Appendix

New Format – 30 pages

- Only include necessary information that is used to develop alternatives and affects plan selection.
- Hard data and other supporting information kept in Working Files at the District Office.

# Recreation Appendix

New Format – 20 pages

- Examples from other reports are typically acceptable.

# Modeling Appendix

Not present in previous Reports.

- Location and display of modeling information highly variable between missions:
  - Ecological Model information typically split between Environmental and Plan Formulation Appendices.
  - Navigation Model information contained in Economic Appendix.
  - Coastal Models split between Engineering and Economics.

# Modeling Appendix

New Format – 50 pages

- New appendix
  - Summary of strategies, assumptions from BeachFX, HarborSym, Ecological Models, etc.
  - Model certifications.
  - Hard data and Spreadsheets kept in Working Files in District Office.

# Draft Project Operating Manual

Example from C-111 Spreader Canal Western Project.

- 50 Pages total.
- CERP requirement based on Programmatic Regulations.
- Current length is acceptable.

# Adaptive Management/Monitoring Plan Appendix

Example from C-111 Spreader Canal Western Project.

- 140 Pages total.
- Highlight main features and reduce to 20 pages.
- Overall Monitoring Plan and Adaptive Management Plan will be kept in working file at District Office.