



**US Army Corps
of Engineers**



FEASIBILITY REPORT SUMMARY

FORMAT AND CONTENT GUIDE

Version 1.0 – November 2021

The Report Summary is a document to support various briefings, decision-related meetings, and hearings both within HQUSACE and with or before the ASA(CW), OMB, other agencies, Congressional staff, and Congressional committees during the authorization process. The Report Summary is initiated prior to the Alternatives Milestone (AMM) and will be updated for each subsequent milestone (Tentatively Selected Plan (TSP) Milestone and Agency Decision Milestone (ADM) meetings). It is also submitted with the draft and final report. It is submitted in its final form with the District's final report package and is included in the Director's Report and Chief's Report packages. It is also required for policy exception requests.

The content of the Report Summary is progressively added throughout project planning. The expectation for each section is in parentheses after the section heading (complete or update the section as indicated by the milestone in parentheses). The Report Summary includes a discussion of key assumptions, risks, uncertainties, and consequences. With each submittal, the PDT confirms that the Report Summary reflects the most current information.

After the transmittal of the final report package, the Report Summary is updated each fiscal year and forwarded to the respective Regional Integration Team (RIT) by 30 November to reflect the current fiscal year's price level and any other changes. These updates continue until the project is either funded or is no longer being pursued at the Washington-level.

While there is not a strict page limit to the Report Summary, it is expected to be a concise, comprehensive summary of the feasibility phase, outlining the most salient content. It should be approximately 10 to 15 pages in length. The lengths of the paragraphs below, which explain the content requirements, should be used as a guide for the length of the project specific content inserted by the PDT. If you have questions regarding the content required for a particular section, contact your RIT or Review Manager.

Model Report Summary

REPORT SUMMARY

[Insert Official Project Title (e.g., title used by Programs)]

STUDY SCHEDULE (AMM/TSP/DRAFT REPORT/ADM/FINAL REPORT).

Feasibility Cost Share Agreement signed (CW130):	DD MMM YYYY
Alternatives Milestone Meeting (CW261):	DD MMM YYYY
Notice of Intent to prepare an EIS, if applicable (CW205):	DD MMM YYYY
Tentatively Selected Plan Milestone (CW262):	DD MMM YYYY
Draft report & NEPA document released – start of public/ concurrent review (CW250):	DD MMM YYYY
Receipt of final IEPR comments, if applicable:	DD MMM YYYY
Agency Decision Milestone (CW263):	DD MMM YYYY
Transmittal of final report package (CW160):	DD MMM YYYY
Start of 30-Day State & Agency review for the proposed Chief's Report:	DD MMM YYYY
Final EIS published in the Federal Register, if applicable:	DD MMM YYYY
Chief of Engineers Report (CW270) or Director's Report (CW269) signed:	DD MMM YYYY
FONSI or ROD signed:	DD MMM YYYY

STUDY INFORMATION (AMM/TSP/DRAFT REPORT/ADM/FINAL REPORT).

Study Authority. Include the full text of principal study resolutions(s) or other study authority. [exact authority language and no interpretations]

Study Purpose and Scope. State whether the report is an interim or final response to the study authority. Succinctly [2 to 3 sentences] identify the study purpose and scope. Need to make sure that the study purpose is generally consistent with the NEPA Purpose and Need.

Project Location. Include a concise description of the study area and project location (including a clear map with key features identified).

Study Sponsor. Include the name(s) of the study sponsor(s).

Federal Interest. Identify the federal interest, consistent with Army policies, based on an appraisal of the costs, benefits, and environmental impacts of the recommended project alternative. Explain why the USACE should undertake this effort, rather than another federal, state, or local entity.

Congressional Interests. List only the Congressional District(s) associated with this project. (Names of the members are not necessary.)

Cooperating Agencies. List agencies identified as either Cooperating or Participating Agencies as per Section 1005 of WRRDA 2014. If an identified agency declines to be a Cooperating Agency, state the reason why. Section 1002 of WRRDA 2014 requires an interagency meeting to be held within the first 90 days of the study. Provide the date and concise summary of the results of the meeting.

STUDY OBJECTIVES (AMM/TSP/DRAFT REPORT/ADM/FINAL REPORT).

Problems and Opportunities. Provide a concise summary of the key water resource problems to be addressed and the opportunities to be considered. The forecasted water resources problems over the period of analysis should be described.

Planning Objectives. List planning objectives that address the forecasted water resources problems. (This is the baseline for measuring all benefits of a project.)

Planning Constraints. List any study-specific restrictions that limit the scope of the planning process.

ALTERNATIVES. (AMM/TSP/DRAFT REPORT/ADM/FINAL REPORT)

Plan Formulation Strategies, Management Measures, and Alternatives (AMM). Provide a concise summary of the formulation strategies used to identify and screen measures and develop alternatives. List the initial array of management measures and alternatives and how the alternatives will be evaluated and compared (formulation criteria). Label alternatives as structural, nonstructural, or natural/nature-based. Summarize why certain measures and alternatives were eliminated from consideration.

Focused Array of Alternatives (AMM; Update to “Final Array” for TSP Milestone). Summarize the plans that qualified for the final comparison. Once identified, label the NED, NER, or Combined NED/NER Plan. Identify a Locally Preferred Plan, if applicable. Include the rationale for eliminating alternatives. Label alternatives as structural, nonstructural, or natural/nature-based.

Comparison of Alternatives (TSP). Provide a concise summary of the criteria used to compare alternatives in the final array, and the results of that comparison. Cite key risks and uncertainties and summarize how they have been treated. Alternative costs and outputs should be quantified here.

Recommended Plan (TSP). Identify the TSP or recommended plan, and summarize the rationale supporting the selection. List significant features, as well as adverse effects and impacts and mitigation actions. Features, costs, and outputs should be quantified. Include a map of the project area, with features identified.

Project Risks (TSP). Outline risks associated with the TSP or recommended plan, including but not limited to risks to the study, project design, implementation, and effectiveness. Refer to key assumptions where applicable.

EXPECTED PROJECT PERFORMANCE (Summary from the Final Report).

Project Costs. Present all project first costs, including construction elements by project purpose, LERRD, PED, construction management, as well as deferred costs (e.g., periodic nourishment). Specify price level and discount rate applied. Note whether costs included in “Cultural Resources Preservation” for archaeological data recovery exceed 1% of the total federal project cost and if a waiver is required. Follow the Table 1 format and level of detail. Separate “Elements” should be presented for each project purpose. Round all estimates under \$1 million to the nearest \$1,000; under \$10 million to the nearest \$10,000; under \$100 million to the nearest \$100,000; under \$1 billion to the nearest \$1 million; and under \$10 billion to the nearest \$10 million.

Table 1 Example
Project Cost Summary
(October 20xx Price Levels)

<u>Construction Item</u>	<u>Cost</u>
LERRD	\$ 900,000
Elements	
Relocations	6,600,000
Locks	163,000,000
Fish & Wildlife Mitigation	5,100,000
Channel Improvements	10,100,000
Cultural Resources Preservation	100,000
Monitoring	200,000
Buildings, Grounds, & Utilities	5,200,000
Permanent Operating Equipment	<u>2,500,000</u>
Subtotal	\$ 194,000,000
Preconstruction Engineering & Design (PED)	\$ 34,800,000
Construction Management (E&D, S&A)	\$ <u>10,700,000</u>
 Total First Cost	 \$ 240,000,000
 Deferred Costs	 \$ 0
 HTRW Remedial Action*	 \$ 500,000

* Associated financial costs that are not part of the recommended Federal project but are a necessary non-Federal responsibility.

Equivalent Annual Costs and Benefits. Consistent with Executive Order 12893, list all project costs and benefits computed to an annual equivalent basis, including results of risk and uncertainty analyses. Include the benefit/cost ratio evaluated using the discount rate established annually for the formulation and economic evaluation of plans for water and related land resources (published by HQUSACE as an Economic Guidance Memorandum) and using a 7 percent discount rate. Benefits from ecosystem restoration studies do not require monetization, and are displayed in the units used in the evaluation. Benefit/cost ratios are not required for NER projects. For combined NED/NER Plans, list both NED and NER benefits and costs associated with the recommended plan (see Table 2B). Round all estimates under \$1 million to the nearest \$1,000; under \$10 million to the nearest \$10,000; under \$100 million to the nearest \$100,000; under \$1 billion to the nearest \$1 million; and under \$10 billion to the nearest \$10 million. Follow the Table 2A/2B format and level of detail.

Table 2A Example (for an NED Plan)
Equivalent Annual Benefits and Costs
(October 20xx Price Level, 50-Year Period of Analysis, 4.875 Percent Discount Rate)

Investment Costs	
Total Project Construction Costs	\$ 240,000,000
Interest During Construction	<u>36,600,000</u>
Total Investment Cost	\$ 277,000,000
Average Annual Costs	
Interest and Amortization of Initial Investment	\$ 17,800,000
<i>(additional annual costs, if applicable)</i>	1,600,000
OMRR&R	<u>2,600,000</u>
Total Average Annual Costs	\$ 22,000,000
Average Annual Benefits	\$ 35,600,000
Net Annual Benefits	\$ 13,600,000
Benefit-Cost Ratio	1.6 to 1
Benefit-Cost Ratio (computed at 7%)	1.3 to 1

Table 2B Example (for a Combined NED/NER Plan)
Economic Costs And Benefits Of Recommended Plan¹ (\$1,000)

Item	Flood Damage Reduction		Ecosystem Restoration		Total	
	Allocated Costs	Benefits	Allocated Costs	Benefits	Allocated Costs	Benefits
Investment Cost						
First Cost	4,260		40,500		44,800	
Interest During Construction	271 ³		3,070 ⁴		3,340 ⁴	
Total	4,530		43,500		48,000	
Annual Cost						
Interest and Amortization	272		2,620		2,890	
OMRR&R ²	47		8		55	
Subtotal	319		2,630		2,950	
Annual Benefits						
Monetary (FDR)		577				577
Non-monetary (Ecosystem)				888 AAHU's		888 AAHU's
Net Annual FDR Benefits		258				258
FDR Benefit-Cost Ratio						x.x to 1
FDR Benefit-Cost Ratio (at 7%)		x.x to 1				x.x to 1

¹Based on October 20xx price levels, X.XXX percent rate of interest, and a 50-year period of analysis.

²Operation, Maintenance, Repair, Replacement, and Rehabilitation

³Two year period of construction assumed for levee removal and construction of setback levee

⁴Three year period construction assumed for overall project

Cost Sharing. Show the apportionment of the first costs, including associated costs, between the Federal Government and the non-federal sponsor(s) using the format displayed in Table 3. Present all financial costs of the recommended plan including in-kind services, LERRDs, other credits, and any other applicable considerations. If your project has a special authority with cost sharing requirements that deviate from the standards in Title I of WRDA 1986, indicate this. Round all estimates under \$1 million to the nearest \$1,000; under \$10 million to the nearest \$10,000; under \$100 million to the nearest \$100,000; under \$1 billion to the nearest \$1 million; and under \$10 billion to the nearest \$10 million.

Table 3 Example [Insert Project Name] - Cost Sharing (October 20xx Price Level)			
Item	Federal Cost	Non-Federal Cost	Total Cost
<u>Ecosystem Restoration (ER)</u>			
PED ¹	\$ xx,x00,000 (65)	\$ x,xx0,000 (35)	\$ xx,x00,000
LERR&D	\$ 0	\$ xx,x00,000	\$ xx,x00,000
<u>Ecosystem Restoration</u>	<u>xx,x00,000</u>	<u>xx,x00,000</u>	<u>xxx,000,000</u>
Subtotal	\$ xxx,000,000 (65)	\$ xxx,000,000 (35)	\$ xxx,000,000
ER Subtotal	\$ xxx,000,000 (65)	\$ xxx,000,000 (35)	\$ xxx,000,000
<u>Flood Damage Reduction (FDR)</u>			
PED	\$ x,xx0,000 (65)	\$ x,xx0,000 (35)	\$ x,xx0,000
LERR&D	\$ 0	\$ x,xx0,000	\$ x,xx0,000
Flood Damage Reduction ^{2,3}	xx,x00,000	x,xx0,000	xx,xx0,000
Section xxx Credit	<u>x,xx0,000</u>	<u>(x,xx0,000)</u>	
Subtotal	\$ xx,x00,000 (65)	\$ x,xx0,000 (35)	\$ xx,x00,000
FDR Subtotal	\$ xx,x00,000 (65)	\$ xx,x00,000 (35)	\$ xx,x00,000
Associated Costs ⁴		\$ x,xx0,000	
<u>Recreation</u>			
PED	\$ x,xx0,000 (50)	\$ x,xx0,000 (50)	\$ x,xx0,000
LERR&D	\$ 0	\$ xx,x00,000	\$ xx,x00,000
<u>Recreation</u>	<u>xx,x00,000</u>	<u>xx,x00,000</u>	<u>xx,x00,000</u>
Subtotal	\$ xx,x00,000 (50)	\$ xx,x00,000 (50)	\$ xx,x00,000
Recreation Subtotal	\$ xx,x00,000 (50)	\$ xx,x00,000 (50)	\$ xx,x00,000
Total Project	\$ xxx,000,000 (Fed %)	\$ xx,x00,000 (NF %)	\$ xxx,000,000
Associated Costs	\$ 0 (0)	\$ x,xx0,000	\$ x,xx0,000
Total with Associated Costs	\$ xxx,000,000 (xx)	\$ xx,x00,000 (xx)	\$ xxx,000,000

¹Sponsor contributes 25% during the design phase and the remaining 10% the construction phase

²Non-federal amount must be 5 percent or more in accordance with Section 103 of WRDA 1986

³If the sponsor constructs a portion of the project under Section 104 of WRDA 1986, show separate lines for the completed Section 104 work and for the remaining work

⁴Non-creditable relocation, HTRW cleanup, or other costs

Project Implementation. Identify the non-federal sponsor(s) for project implementation. Highlight the key responsibilities of the various partners, and other information pertinent to implementation. Include plans for adaptive management and resource monitoring, if applicable.

Operation, Maintenance, Repair, Rehabilitation, and Replacement (OMRR&R). Summarize OMRR&R actions, costs, and responsibilities associated with the recommended plan.

REVIEWS CONDUCTED. (Summarize all reviews as per the Review Plan as they are performed.)

Stakeholder & Public Engagement (as performed). Provide an overview of the outcomes of public involvement and review of the draft report. Summarize key perspectives and differences among stakeholders, including resource and cooperating agencies. Identify actions that have been taken to resolve issues, and actions proposed to address any unresolved issues.

Environmental & Cultural Resources Compliance (as performed). Identify the type of NEPA document (categorical exclusion, EA, EIS, supplemental, or tiered). State the status of the NEPA document and the FONSI or ROD. Add a summary table from the FONSI or ROD that shows resources analyzed and level of impact with and without mitigation. Identify any other significant issues and their final resolution. List the status of compliance with major environmental statutes. (Note: Results of the FEIS review, if applicable, and the final resolution of issues will be added by the Policy and Legal Compliance Review Manager).

Highlight compliance with Section 106 of the National Historic Preservation Act of 1966 and its implementing regulations within 36 CFR Part 800, including consultation with federally recognized Tribes. Confirm coordination with State Historic Preservation Officers (SHPO), Tribal Historic Preservation Officers (THPO), the Advisory Council on Historic Preservation (ACHP), the public, and all other consulting parties, interested parties and/or individuals, as applicable. Briefly summarize any government-to-government Tribal consultation conducted, particularly how comments provided by the Tribe(s) were or were not considered in the process.

Peer Review (ADM). Summarize how the plan and associated analyses were reviewed for quality through Agency Technical Review and, if applicable, Independent External Peer Review, as well as any comments of particularly high significance, and their resolution. With the final report submittal, also include the dates of the certifications of the technical adequacy of the final feasibility report, including cost certification by the Cost Engineering Center of Expertise.

State and Agency Review (to be filled out by the Policy and Legal Compliance Review Manager after S&A Review ends). Identify the dates State & Agency review began and ended. Identify the recipients of letters, the states and agencies that responded, and summarize the final resolution of any objections or issues.

Policy and Legal Compliance Review (to be filled out by the Policy and Legal Compliance Review Manager after the Documentation of Review Findings (DORF) is complete). Summarize the final results of the policy and legal compliance review process. Include any approved exceptions from policy.