

Service Agreement

Project Name: Lewiston Temperature Special Study	Date Submitted: December 21, 2011
Title of Work: Special Study Project Management	Cost Authority: A30-0416-71B1-200-00-0-0
Team Leader: Fred Holz	MP-730 916.978.5075
Group Leader/Supervisor: Mona Jefferies-Sonica	MP-730 916.978.5068
Client Contact: Rod Wittler	TRRP 530.623.1801
1. Project Description: Substantiate the need for and receive authorization to proceed with a Feasibility Study, or to receive approval to directly implement an alternative developed hereby using existing authorities (c.g., CVPIA § 3406(b)(1) and (b)(23) or other authorities).	
2. Description of Work: (list objectives, tasks, and deliverables) <u>Objective:</u> The objective of the Special Study is to investigate structural and/or operational alternatives and provide recommendations for improving the transmission of cold water, that is less than 50°F, through Lewiston reservoir, including changes at either the Trinity and/or Lewiston Dam facilities, or within Lewiston reservoir. <u>Scope:</u> Provide Project Management services to develop a Special Study which will identify Federal authority, problems, federal interest and conceptual alternatives aimed at improving the transmission of cold water discharged out of Trinity Dam through Lewiston Reservoir and into the Trinity River. Four specific conceptual alternatives are to be analyzed: <ol style="list-style-type: none"> 1) Removal of Lewiston Dam 2) Dredge Lewiston Reservoir 3) Tunnel or pipe Trinity flows to Lewiston Dam 4) Raise Lewiston Dam. <p>A Trinity Dam Temperature Control Device (TCD) may be considered with each alternative. The Lewiston Dam power plant and hatchery are scheduled for replacement/reconstruction in 2012 therefore all alternative must consider the nature of the problem given this planned change.</p> <p>The sequence of conceptual alternative development follows:</p> <ol style="list-style-type: none"> 1. Clarify and research conceptual alternatives with TRRP and partners to provide a unified focus. 2. Develop draft alternatives descriptions, including a written summary for review by TRRP 3. TRRP & Partners (Temperature Work Group and others) review and comment on draft alternatives 4. Revise conceptual alternative descriptions based on comments and resubmit until TRRP accepts alternatives for continued analysis 5. Prepare final conceptual alternative descriptions (3-5 page summaries per alternative) 6. Analyze conceptual alternatives for: <ol style="list-style-type: none"> a. Effectiveness –projection of reduced summertime and early fall temperatures of waters delivered to the Trinity River downstream of Lewiston Dam b. Proposed features for construction c. Operational changes d. Preparation of appraisal level design concept exhibits e. Summary of objectives, opportunities, needs and problems f. Appraisal level cost estimate for implementing each of the four (4) alternatives analyzed 7. Revise analyses based on TRRP comments. 8. Prepare final report outlining findings and conclusions as well as a path forward for TRRP consideration. 	

The Team Leader shall assemble and manage interdisciplinary teams to complete the Special Study as well as provide general project management/administration activities in support of the Special Study, including, but not limited to, the following:

- Scheduling, planning, conducting, and participating in meetings;
- Preparation and reproduction of meeting notes, handouts, and deliverables;
- Coordination and communication with the Client Contact, TRRP and partners, as appropriate;
- Preparation of Progress Reports for the Client Contact, outlining tasks and activities anticipated for the current month or other appropriate timeframe, issues or topics of concern, and a monthly accounting of costs, and;
- Management and maintenance of a document library.

Project Management activities will be performed within the study organization structure. The client contact shall be a TRRP representative, as specified below. The Team Leader, as specified below, shall take exclusive direction from the Client Contact and collaboratively apply the knowledge, skills, tools, and techniques required to successfully complete the deliverables identified in this Service Agreement. The Team Leader shall manage and coordinate the interdisciplinary groups (Civil Engineering, Economics & Environmental) required for the completion of this *Scope of Work*, prioritizing and completing the deliverables identified in this Service Agreement.

TRRP will provide all temperature modeling support in a timely and complete manner, as required by the design team in order to meet design development and cost estimating schedules.

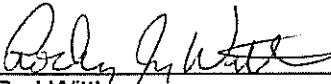

NOTE: FY13 funding is not certain, therefore, this agreement anticipates an intermediate milestone, a Technical Memorandum summarizing order of magnitude results available within FY12. This technical memorandum will be due on or before October 1, 2012. The technical team will focus on the intermediate milestone as the end of the study, until such time as the FY13 funding is obtained.

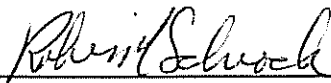
Deliverables: Intermediate Technical Memorandum and Lewiston Temperature Special Study and Appraisal Level Cost Estimates.

3. Schedule & Financial Plan: The budget for FY 2012 is \$150,000. Anticipated out year budgetary needs are outlined within the FY Summary and schedule. It is anticipated to conform to the Earned Value analysis, attached and noted as Exhibit A, dated March 28, 2012.

4. Signatures: The following signatures indicate approval of this Service Agreement:

	4/18/12		4/18/12
Fred Holz	Date	Mona Jefferson-Soria	Date
Team Leader/Project Manager		Supervisor, MP-730	

	1 20 Apr 2012		1 20 Apr '1 12
Rod Wittler	Date	Victor Mayo	Date
Client Contact/Project Manager		Acquisition Support Specialist	

	4/20/2012
Robin Schrock	Date
Executive Director, TRRP	