

**APPENDIX I
ROUND 8
LAKE TAHOE CAPITAL PROJECT PROPOSAL**

Project Name: **BMP Water Quality Retrofit – Forest Service Facilities Ph. 3**

Capital Focus Area: **Watershed and Habitat Improvement (Federal Vision Plan)**

EIP # 1007

Lead Agency: **USFS - LTBMU**

Contact: **Thomas Torres**

Threshold: **Water Quality**

Phone Number: **530.543.2696**

Threshold Standard: **WQ-5**

Email Address: **ttorres@fs.fed.us**

Is this a multi-year Project? yes
(If “Yes”, describe in the Detailed

Total Project Cost: **\$25,000,000**

Project Description below number of
Years or phases and which year the
Requested funding will cover)

Funding Request in this Round: **\$1,500,000**

Project Summary (maximum 200 words):

Many USFS facilities (buildings and sites) do not meet established environmental Thresholds and may pose a threat to the water quality of Lake Tahoe. This project will help bring these facilities into compliance with these established Thresholds. The project provides for the NEPA, survey, design, implementation and monitoring of water quality BMPs at existing Forest Service facilities. BMP measures include but are not limited to, reduction of coverage, elimination or relocation of facilities out of SEZ's, road surface and drainage improvements, dripline trenches, sand/oil separators, and regrading of sites to convey stormwater to treatment areas. Facilities identified for improvements include, but may not be limited to, Meyers Work Center, William Kent Campground, Fallen Leaf Campground, and Logan Shoals Overlook.

Detailed Project Description:

Identified Forest Service Facilities have significant issues that may contribute to degraded water quality within the basin. Mandated building and site improvements will be installed. Design of improvements to minimize both “point-source” and “non-point source” pollution will be completed using established and newly identified techniques. Improved techniques and methods, learned from previous monitoring efforts, will be reviewed and incorporated as needed in order to provide optimal efficiency of implemented improvements.

Specific issues that will be addressed include reducing “soft” and “hard” coverage areas, improving pedestrian and vehicle traffic patterns to minimize compacted soils, de-

compaction of soils to increase infiltration and promote vegetation growth, removal and/or relocation of constructed features in SEZ's, re-grading of roads, trails, and use sites in order to properly drain areas and to minimize "point-source" and "non-point source" storm water run-off. Treatment techniques that minimize long-term maintenance, maximize infiltration and eliminate run-off from the project site will be implemented. Where applicable, improvements meeting other goals such as promoting mass transit, redesigning aging infrastructure that pose a threat to water quality, and meeting other standards will be taken into consideration during design and implementation.

Describe the goals and objectives of the project:

The primary goal of this project is to bring the facility into compliance with established water quality "Thresholds" thereby protecting the water quality of Lake Tahoe from impacts associated with uncontrolled stormwater runoff. The principle objectives for the project will be to "Improve water quality by reducing sediment (source control) on lands managed by federal agencies" (Federal Vision Plan Objective WQP-S2, Pg. 21)

Describe the anticipated project accomplishments:

Accomplishment of this project will protect the water quality of Lake Tahoe in a number of ways. Implementation of the project will minimize the erosive effects of water concentrated by road and facility drainage features, reducing the likelihood of sediment production and increasing the protection of water quality. The project will be monitored to evaluate its effectiveness at protecting the water quality of Lake Tahoe, and will be "fine tuned" if necessary to meet the resource protection goals.

Describe the "readiness" of this project to move forward (urgency, capacity, capability, Environmental documentation etc.):

This project will fund various improvements as described. Some improvements such as installing drip-line trenches, certain re-grading operations, de-compaction of soils and other improvements can be installed with minimal Environmental Documentaion (NEPA). These improvements can be installed using a "Categorical Exemption" and implementation can occur rapidly. Where identified improvements do not qualify for a "Categorical Exclusion", additional NEPA will be required.

It is anticipated that these project funds will be primarily used for implementation/construction of improvements that will require minimal environmental documentation. Much planning and preliminary design of these improvements have been accomplished and paid for out of previous Round 6 and 7 funding.

Describe partnerships for this project. (Include documentation):**

n/a

Describe the project monitoring that will be implemented as part of this project including:

(1) The questions the monitoring program is designed to answer

(1) To what degree has the implementation of Facilities Retrofit BMPS been successful in reducing water quality impacts? (I)

(2) Are Temporary BMPS being adequately designed, implemented and maintained during construction projects?(I)

(2) The monitoring approach

Qualitative surveys using an approach similar to that established in the Region 5 BMPEP program will be developed and utilized to determine whether permanent and temporary BMPs were implemented as designed, and effective in preventive adverse soil and water quality impacts. Implementation evaluations are conducted immediately following implementation, and effectiveness evaluations are conducted at least once during spring runoff or after major storm events post construction

(3) Whether this project monitoring fits in to a larger monitoring or research program?

This monitoring is part of the LTBMU 5 Year Plan for project level monitoring of Forest management activities as it relates to impacts to Lake Clarity. The results from the monitoring program for this project will be available to provide input to the Total Maximum Daily Load (TMDL) model that is currently being developed by the Regional Water Quality Control Board.

Describe how the project results will be communicated and made-available to the public.

Results/accomplishments summarized in Annual Forest Monitoring Program Report, as well as project-specific monitoring reports. Project/Program specific monitoring reports will be produced one to five years after project implementation, depending on the variables being monitored and the questions to be answered.

The information created from this project will be disseminated to three audiences: 1) the general public, 2) other resource agencies, and 3) the broader scientific community. The audiences will be informed respectively through the USFS website, public/interagency meetings, and peer-reviewed publication.

Include an 8 ½ X 11 map depicting the project.

Map is separate attachment

Appendix B-8

LAKE TAHOE RESTORATION PROJECTS ESTIMATED DIRECT COSTS & KEY MILESTONE DATES

Water Quality Retrofit –

Project Name: Forest Service Facilities Ph. 3 Agency: USDA FS LTBMU
 Prepared by: Thomas Torres Phone: 530-543-2696 EIP #: 1007
 SNPLMA Project #: _____

Identify estimated costs of eligible reimbursement expenses:

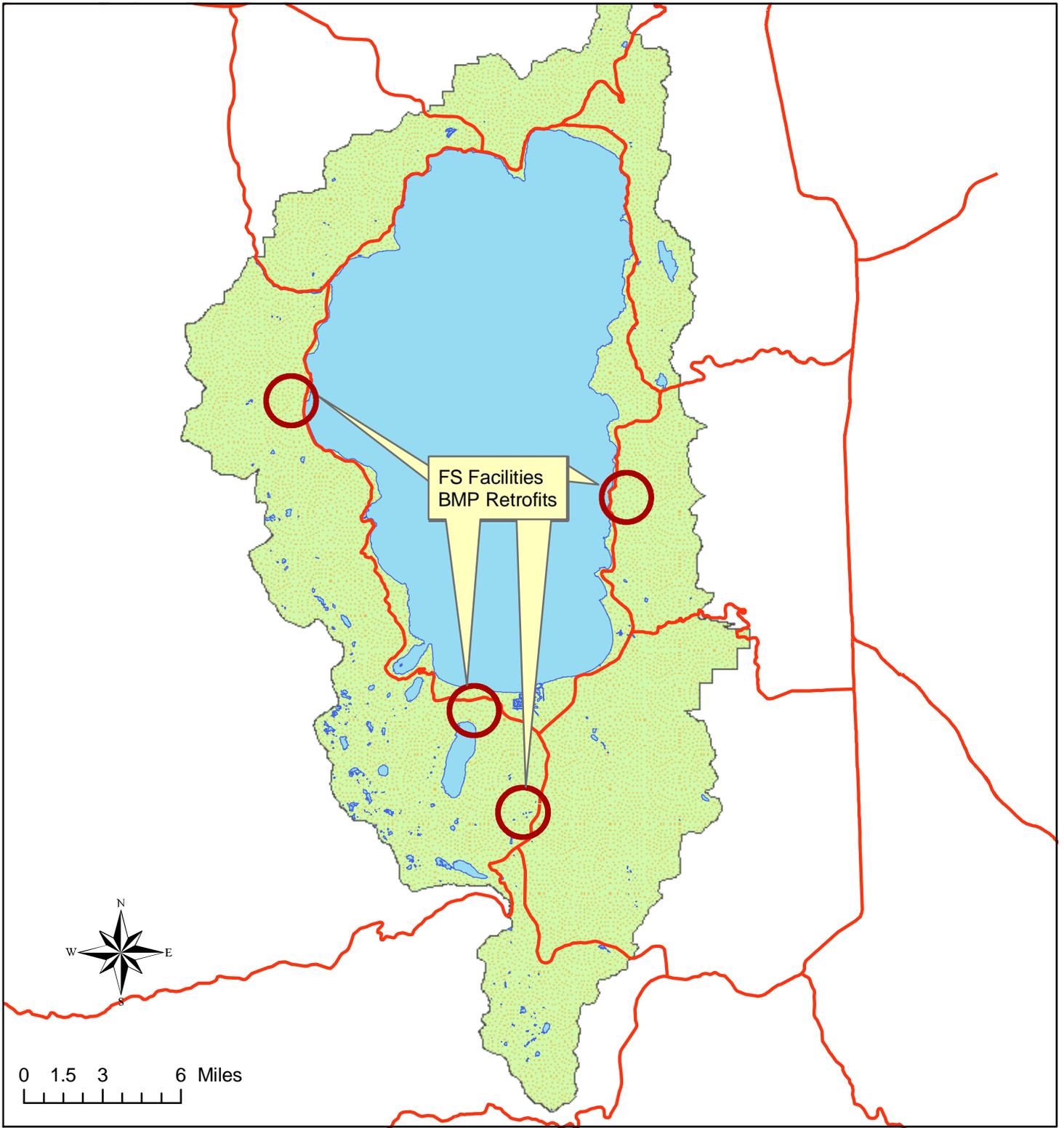
<p>1. Planning, Environmental Assessment and Research Costs (specialist surveys, reports, monitoring, data collection, analysis, NEPA, etc.)</p>	\$ <u>150,000</u>	<u>10</u> %
<p>2. Direct Labor (Payroll) to Perform the Project</p>	\$ <u>150,000</u>	<u>10</u> %
<p>3. Project Equipment (tools, software, specialized equipment, etc.)</p>	\$ _____	_____ %
<p>4. Travel (including per diem where official travel status required to carry out project, such as serve as COR, experts to review reports, etc.)</p>	\$ _____	_____ %
<p>5. Official Vehicle Use (pro rata cost for use of Official Vehicles when required to carry out project)</p>	\$ <u>25,000</u>	<u>1</u> %
<p>6. Cost of Contracts, Grants and/or Agreements to Perform the Project</p>	\$ <u>980,000</u>	<u>65</u> %
<p>7. Other Direct Costs (direct labor for agency personnel to do project procurements; COR; PI; personnel assigned as NEPA lead; personnel assigned to review contracted surveys, designs/drawings, reports, etc.; project manager and/or project supervisor; and contracted costs for project manager and/or project supervisor if contracted separately and environmental ed @ 3%)</p>	\$ <u>195,000</u>	<u>13</u> %
	\$ _____	_____ %
TOTAL*:	\$ <u>1,500,000</u>	<u>100</u> %

Estimated Key Milestone Dates:

Milestones/Deliverables:	Date:
Complete resource surveys	November 2008
Complete NEPA	March 2009
Contract Construction	May 2009
Complete Implementation	November 2010
Final Completion Date:	December 2010

COMMENTS:

This project will bring a number of Forest Service facilities into compliance with water quality protection measures.



SNPLMA PROJECT PROPOSAL

Forest Service Facilities BMP Retrofit

USDA Forest Service
Lake Tahoe Basin Management Unit



The Forest Service uses the most current and complete data available. GIS data and product accuracy may vary. They may be developed from sources of differing accuracy; accurate only at certain scales; based on modeling or interpretation; incomplete while being created or revised; etc. Using GIS products for purposes other than those for which they were created, may yield inaccurate or misleading results. The Forest Service reserves the right to correct, update, modify or replace GIS products without notification.

For more information, contact: Lake Tahoe Basin Management Unit
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