Appendix B-8

LAKE TAHOE RESTORATION PROJECTS
ESTIMATED DIRECT COSTS & KEY MILESTONE DATES

Project Name: Meeks Bay Highway Corridor BMPs
Agency: USFS
Prepared by: Daniel Cressy
Phone: 530.543.2857
EIP #: 83
SNPLMA Project #:

Identify estimated costs of eligible reimbursement expenses:

1. Planning, Environmental Assessment and Research Costs (specialist surveys, reports, monitoring, data collection, analysis, NEPA, etc.)	$	$29,000	4 %
2. Direct Labor (Payroll) to Perform the Project	$	$39,747	5 %
3. Project Equipment (tools, software, specialized equipment, etc.)	$	$2,000	- %
4. Travel (including per diem where official travel status required to carry out project, such as serve as COR, experts to review reports, etc.)	$	-	%
5. Official Vehicle Use (pro rata cost for use of Official Vehicles when required to carry out project)	$	$3,000	1 %
6. Cost of Contracts, Grants and/or Agreements to Perform the Project	$	$499,500	67 %
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	$	$59,000	8 %
8. Indirect Costs	$	$111,573	15 %
TOTAL:	$	$743,820	100 %

Estimated Key Milestone Dates:

Milestones/Deliverables:	Date:
Resource Surveys Complete	**October 2008**
NEPA Complete	**July 2009**
Contract Documents Complete	**January 2010**
Implementation Complete	**October 2010**
Monitoring Complete	**October 2012**
Final Completion Date:	**October 2012**

COMMENTS: This project compliments water quality protection work scheduled for the Meeks Bay Resort Campground beginning in 2006. It also compliments watershed restoration planning efforts currently underway

APPENDIX I

LAKE TAHOE CAPITAL PROJECT PROPOSAL

Project Name: Meeks Bay Highway Corridor BMPs

Capital Focus Area: Water Quality Improvements /BMP

EIP #: 83

Lead Agency: USFS

Contact: Daniel Cressy

Threshold: Water Quality

Phone Number: 530.543.2857

Threshold Standard: TRPA WQ-5**,** Stormwater Runoff Quality – Surface Water

Email Address: dcressy@fs.fed.us

Is this a multi-year Project?
Yes

Total Project Cost: $800,745

Project Summary (maximum 200 words):

The Meeks Bay portion of Highway 89 does not comply with water quality protection regulations. Improvements are needed to bring this highway segment into compliance with BMP requirements as well as with TRPA environmental threshold standards.

The project will consist of design development, NEPA completion, implementation, and monitoring of improvements for approximately 8/10 of a mile of the highway corridor, beyond the Caltrans right-of-way. The project will implement water quality protection BMPs where appropriate, improve soil quality, install native vegetation to slow surface run-off and screen activities from the highway, and replace dilapidated safety fencing that parallels the highway. In coordination with Caltrans efforts, this project will protect the water quality of Meeks Creek and Lake Tahoe.

Detailed Project Description:

The Meeks Bay portion of Highway 89 does not comply with water quality protection regulations. Improvements are needed to bring this highway segment into compliance with BMP requirements as well as TRPA scenic threshold standards.

The project will consist of design development for approximately 8/10 of a mile of highway corridor in coordination with the USFS permitees who operate the two recreation facilities at Meeks Bay, the Regional Water Quality Control Board, TRPA, Caltrans, and other interested parties. NEPA will be completed. The project will implement BMP where appropriate, improve soil quality, install native vegetation to slow surface run-off and screen activities from the highway, and replace dilapidated safety fencing that parallels the highway. This project will implement measures outside of the Caltrans right-of-way to protect water quality.

This project will be completed over multiple years. Initial years will complete required

survey, NEPA, and design. Implementation will occur in one year. Monitoring will be completed two years after implementation.

Describe the goals and objectives of the project:

The goals and objectives of this project are to protect and improve the water quality of Meeks Creek and Lake Tahoe, to improve the safety of vehicle / pedestrian travel in the area, and to improve the scenic resources that TRPA has identified as non-compliant with threshold standards.

Describe the anticipated project accomplishments:

As a result of implementing this project the USFS will protect and improve the water quality in Meeks Creek and Lake Tahoe. Revegetation efforts will improve soil conditions, and provide native plants that slow stromwater surface run-ff as well as improve bird and small mammal habitat. Screening efforts associated with revegetation and replacement of fencing will improve traffic and pedestrian safety in this congested section of Highway 89.

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

The project area has been identified by both the USFS and TRPA as not meeting environmental threshold and water quality protection standards. The project will compliment water quality protection work that is currently planned within the Meeks Bay Resort Campground for construction beginning in 2006, as well as highway BMP implementation that is currently being planned by Caltrans. The project includes NEPA. The USFS does not anticipate any extraordinary circumstances that will delay implementing this project's environmental improvements.

The project also compliments USFS comprehensive restoration planning efforts currently underway for the Meeks Creek Watershed.

Describe partnerships for this project. (Include documentation):

This project borders two USFS recreation sites, each of which is operated under a Special Use Permit. The Washoe Tribe of Nevada and California is the permitee that operates the Meeks Bay Resort. The two permitee groups are able to contribute to the implementation of this project through funding mechanisms associated with the conditions of their respective permits.

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

including:

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

The monitoring program is designed to assess the extent to which the implementation of BMPs at this site effectively minimizes the generation and transport of sediment, and protects the water quality of Lake Tahoe. Additionally the program is designed to assess if temporary BMPs are being adequately designed, implemented, and maintained during construction.

(2) The monitoring approach

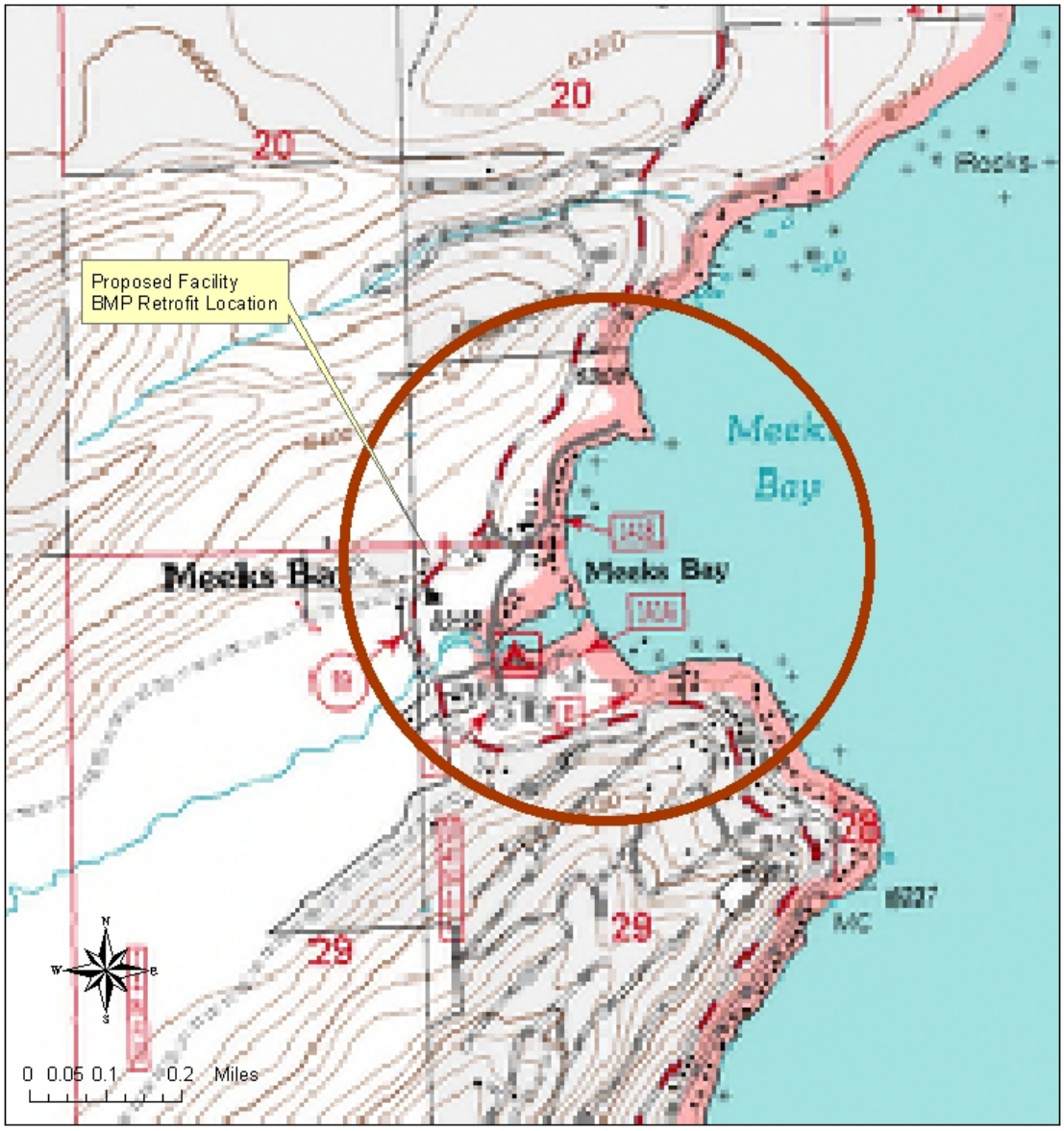
An Adaptive Management approach will be used to monitor the implementation and effectiveness of the facility BMP retrofit. A major component of the monitoring program will use Region 5 Best Management Practices Evaluation Program (BMPEP) to evaluate the implementation and effectiveness of the BMPs. The program will involve monitoring before, during, and after construction. Pre-construction monitoring will establish a baseline of existing threats to water quality and help to develop a plan to resolve the threats. Construction monitoring will ensure that the resource protection measures specified are both being followed, and are effectiveness. Post-construction monitoring will evaluate the success of the project implementation. The facility will be evaluated for two years in the spring, summer, and fall to measure changes in sediment production and transport. This will be compared against the baseline condition. Evaluation of the effectiveness of this project will enable the Forest Service to take corrective measures and modify monitoring protocols if needed, and improve the design of future water quality BMP efforts.

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

The results from the monitoring program for this project will be available to help refine the Total Maximum Daily Load (TMDL) model that is currently being developed by the Regional Water Quality Control Board. Monitoring for this project will be performed in conjunction with the Basin-wide BMP retrofit adaptive management monitoring program. The purpose of this program is to determine the need for BMP retrofits at Forest Service facilities as well as the effectiveness of the BMP retrofits.

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

The results of the project level monitoring will be compiled in a report that will be updated as the post-construction monitoring is completed. This report will be part of the project record located at the LTBMU Supervisor's Office and will be available for public/agency review and use upon request.



SNPLMA PROJECT PROPOSAL
Meeks Bay Highway
Corridor BMP Improvements

USDA Forest Service
Lake Tahoe Basin Management Unit