APPENDIX I

LAKE TAHOE CAPITAL PROJECT PROPOSAL

Project Name: North Shore Trail ATM Implementation	**Capital Focus Area:** Water Quality Improvement/Erosion Control	**EIP #:** 965.06
Lead Agency: USDA FS LTBMU	**Contact:**	Garrett Villanueva
Threshold: WQ/SOIL/REC	**Phone Number:**	530-543-2762
Threshold Standard: WQ4,WQ5,SC2,R1,W2	**Email Address:**	gvillanueva@fs.fed.us
Is this a multi-year Project? Yes, Analysis and design was funded in SNPLMA Round 5.	**Total Project Cost:**	$700,000
	Funding Request in this Round:	$650,000

Project Summary (maximum 200 words):
This project would implement BMP and other improvements as detailed in the North Shore Trail ATM to establish a sustainable trail system and mitigate impacts to resources. The project includes upgrades, closure, adoption and new trail construction to establish a planned trail system in the North Shore Area. The trail system is designed to reduce impacts to resources while improving access to National Forest.

Detailed Project Description:
Environmental Analysis of the North Shore Trail ATM is being funded in Round 5. Analysis is expected to be completed by 12/2006. Implementation is expected to begin by 5/2007.

Describe the goals and objectives of the project:
Reduce impacts to soils and water quality by developing a planned trail system in the North Shore Area.

- WQ-3. Inventory and evaluate water quality risks associated with all USFS roads, trails and recreation facilities. Provide a plan and public process to determine which roads, trails, and facilities. Provide a plan and public process to determine which roads, trails and facilities should be maintained, upgraded, relocated, or decommissioned. Decommission, relocate, maintain, or upgrade USFS roads, trails, and recreation facilities based on water quality risk assessment and public or administrative need.
- WQ-4. Upgrade all critical drainage facilities and crossings on USFS system roads, trails, and recreation facilities to withstand the appropriate storm criteria.
- WQ-5. Minimize the erosive effects of water concentrated by road, trail and recreation facility's drainage features and to minimize the erosion of road, trail, and recreation facility surface materials, reducing the likelihood of sediment production.
- WQ-6. Upgrade and maintain USFS system roads, trails, and recreation facilities in a manner that provides for water quality protection by minimizing rutting, failures, side casting, and blocking of drainage facilities.
- WQ-7. Ensure BMP effectiveness through maintenance, monitoring, evaluation, adaptive management, and public education.

- WR/HI-20. Decommission unnecessary roads and trails in sensitive wildlife habitat or re-route roads and trails around sensitive wildlife habitats.

- Combine recreation use onto designed trails.
- Close and restore trails in sensitive ecosystems or that are high risk to resources.
- Establish and BMP Trailheads.
- Protect heritage resources.
- Protect botanical resources.
- Prevent the spread of noxious weeds.
- Improve wildlife habitat.
- Establish sustainable access to National Forest.

Describe the anticipated project accomplishments:
The following actions are estimated:

- Close and Restore – 18 miles of trail
- Construct 12 miles of new trail.
- Construct .5 miles of trail that meet Universal Accessibility standards.
- Restore 40,000 sq. ft of Stream Environment Zones.
- Restore damaged stream environment zones.
- Establish/BMP 5 trailheads.
- Adopt and reconstruct 25 miles of trail.
- Establish interpretive signage for forest ecosystem education.

Describe the "readiness" of this project to move forward (Environmental documentation, etc.):
NEPA analysis is expected to be completed by 12/2006. Implementation could begin as early as 5/2007 if funding is available.

Describe partnerships for this project. (Include documentation):
Partnerships with the Nevada Conservation Corps and California Conservation Corps are planned to reduce costs during implementation.

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

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

Are we meeting our temporary BMP requirements?
Do permanent BMPs work?
Are mitigations measures performing as stated?
What adaptive management strategies need to be implemented?

(2) The monitoring approach

An Adaptive Management approach will be used to monitor the implementation and effectiveness of trail upgrades. Several approaches will be used on this project. WEPP modeling will be used to derive before/after sediment contribution and erosion. Additionally the LTBMU will use a water quality risk analysis to define risk to water quality. Further recreation patterns and impacts to wildlife, heritage resources, sensitive plants, and the spread of noxious weeds will be monitored to determine project success and adaptive management needs. 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.

(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 and will be available for public / agency review and use upon request at the LTBMU Supervisors Office.

Include an 8 ½ X 11 map depicting the project.

Appendix B-8

LAKE TAHOE RESTORATION PROJECTS
ESTIMATED DIRECT COSTS & KEY MILESTONE DATES

Project Name:	North Shore Roads Transportationshed ATM	Agency:	USDA, Forest Service, LTBMU		
Prepared by:	Kristine Senkier	Phone:	(530) 543-2783	EIP #:	967

SNPLMA Project #:_____

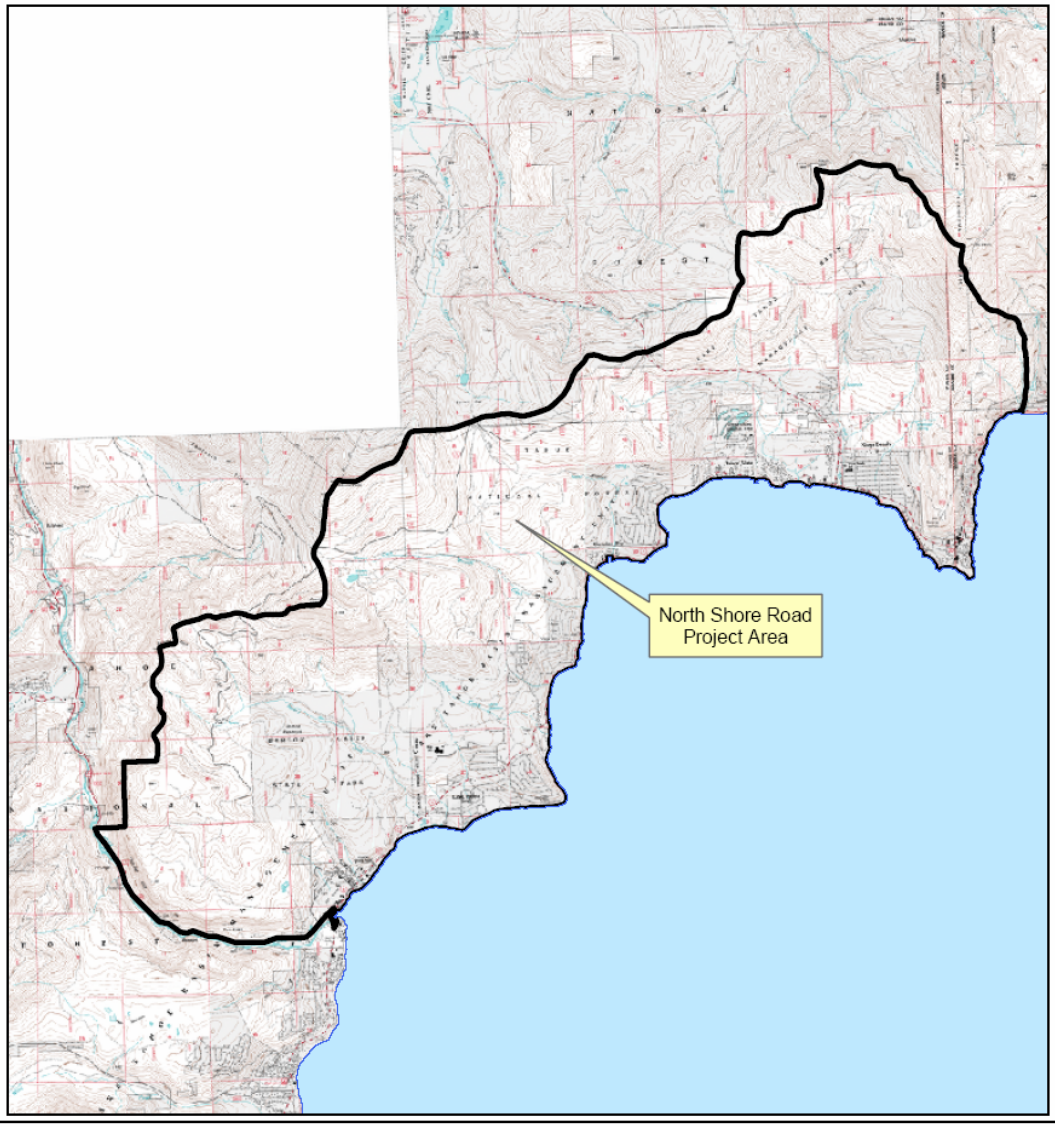
Identify estimated costs of eligible reimbursement expenses:

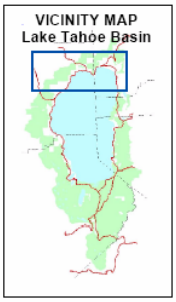
1. Planning, Environmental Assessment and Research Costs (specialist surveys, reports, monitoring, data collection, analysis, NEPA, etc.)	$ 86,000	14	%
2. Direct Labor (Payroll) to Perform the Project	$ 23,000	3.6	%
3. Project Equipment (tools, software, specialized equipment, etc.)	$ 0	0	%
4. Travel (including per diem where official travel status required to carry out project, such as serve as COR, experts to review reports, etc.)	$ 0	0	%
5. Official Vehicle Use (pro rata cost for use of Official Vehicles when required to carry out project)	$ 2,000	.4	%
6. Cost of Contracts, Grants and/or Agreements to Perform the Project	$ 400,000	62	%
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	$ 39,000	6	%
8. Indirect Costs	$ 84,000	14	%
TOTAL:	$ $634,000	100	%

Estimated Key Milestone Dates:

Milestones/Deliverables:	Date:
Complete NEPA	**December 2007**
Award contract	**April 2008**
Final Completion Date:	**December 2009**

COMMENTS:





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SNPLMA Project Proposal
North Shore Roads Planning/Implementation Access and Travel Management

USDA Forest Service
Lake Tahoe Basin Management