

## Appendix B-8

### LAKE TAHOE RESTORATION PROJECTS ESTIMATED DIRECT COSTS & KEY MILESTONE DATES

Saxon Creek Low Water

Project Name: Crossing Agency: USDA Forest Service, LTBMU  
 Prepared by: Kristine Senkier Phone: (530) 543-2783 EIP #: 967.151  
 SNPLMA Project #: \_\_\_\_\_

**Identify estimated costs of eligible reimbursement expenses:**

<b>1. Planning, Environmental Assessment and Research Costs</b> (specialist surveys, reports, monitoring, data collection, analysis, NEPA, etc.)	\$ <u>4,000</u>	<u>2.9</u>	%
<b>2. Direct Labor (Payroll) to Perform the Project</b>	\$ <u>19,000</u>	<u>12</u>	%
<b>3. Project Equipment</b> (tools, software, specialized equipment, etc.)	\$ <u>0</u>	<u>0</u>	%
<b>4. Travel</b> (including per diem where official travel status required to carry out project, such as serve as COR, experts to review reports, etc.)	\$ <u>0</u>	<u>0</u>	%
<b>5. Official Vehicle Use</b> (pro rata cost for use of Official Vehicles when required to carry out project)	\$ <u>1,000</u>	<u>.1</u>	%
<b>6. Cost of Contracts, Grants and/or Agreements to Perform the Project</b>	\$ <u>92,000</u>	<u>60</u>	%
<b>7. Other Direct Costs</b> (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)	\$ <u>16,000</u>	<u>11</u>	%
<b>8. Indirect Costs</b>	\$ <u>19,800</u>	<u>14</u>	%
<b>TOTAL:</b>	\$ <u>151,800</u>	<u>100</u>	%

**Estimated Key Milestone Dates:**

Milestones/Deliverables:	Date:
Final Completion Date:	<b>December 2009</b>

**COMMENTS:**

## APPENDIX I

### LAKE TAHOE CAPITAL PROJECT PROPOSAL

**Project Name:** Saxon Creek Low Water Crossing  
**Capital Focus Area:** Water Quality Improvements/BMP's  
**EIP #:** 967.151  
**Lead Agency:** USDA Forest Service, LTBMU  
**Contact:** Kristine Senkier  
**Threshold:** Water Quality, Recreation, Soil Conservation  
**Phone Number:** (530) 543-2783  
**Threshold Standard:** WQ1- Decrease sediment loads from roads and trails. R1-preserve and enhance recreational experiences. SC2-naturally functioning sez  
**Email Address:** [ksenkier@fs.fed.us](mailto:ksenkier@fs.fed.us)  
**Is this a multi-year Project?** (If "Yes", describe in the Detailed Project Description below number of years or phases and which year the requested funding will cover)  
**Total Project Cost:**  
**Funding Request in this Round:** \$151,800

#### **Project Summary (maximum 200 words):**

The Saxon low water crossing project incorporates the upgrade of an existing road crossing with additional BMP improvements to the transportation system of the surrounding area. This project will remove road fill from unnamed tributary to Saxon Creek that is currently dilapidated and used by motor vehicles, replacing it with a 50-foot boardwalk, which spans the stream environment zone. In addition, approximately 3,000 feet of poorly designed road and trail through the sez will be decommissioned and rerouted using existing user created trails outside of riparian areas.

#### **Detailed Project Description:**

This project will remove road fill from unnamed tributary to Saxon Creek that is currently dilapidated and used by motor vehicles, replacing it with a 50-foot boardwalk, which spans the stream environment zone. In addition, approximately 3,000 feet of poorly designed road and trail through the sez will be decommissioned and rerouted using existing user created trails outside of riparian areas.

#### **Describe the goals and objectives of the project:**

The goals of the project are to improve the crossing, eliminating sez and natural resources disturbances and provide a logical transportation system for recreation users. The following are the objectives of this project:

**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 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 crossing on USFS system roads, trails

and creation facilities to withstand the appropriate storm criteria.

**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.

**Describe the anticipated project accomplishments:**

Implementation of this project will result in a boardwalk crossing and logical road and trail system providing high quality recreation opportunities.

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

NEPA is currently in progress and funded through round 5 project dollars. The environmental assessment will be completed by June 2006.

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

N/A

**Describe the project monitoring that will 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 temporary and permanent BMPs effectively minimizes the generation and transport of sediment, and protects the water quality of Lake Tahoe.

**(2) The monitoring approach**

An Adaptive Management approach will be used to monitor the implementation and effectiveness of revegetation areas associated with roads and trails. 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 effective. Post-construction monitoring will evaluate the success of the project implementation. The project site 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.

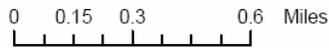
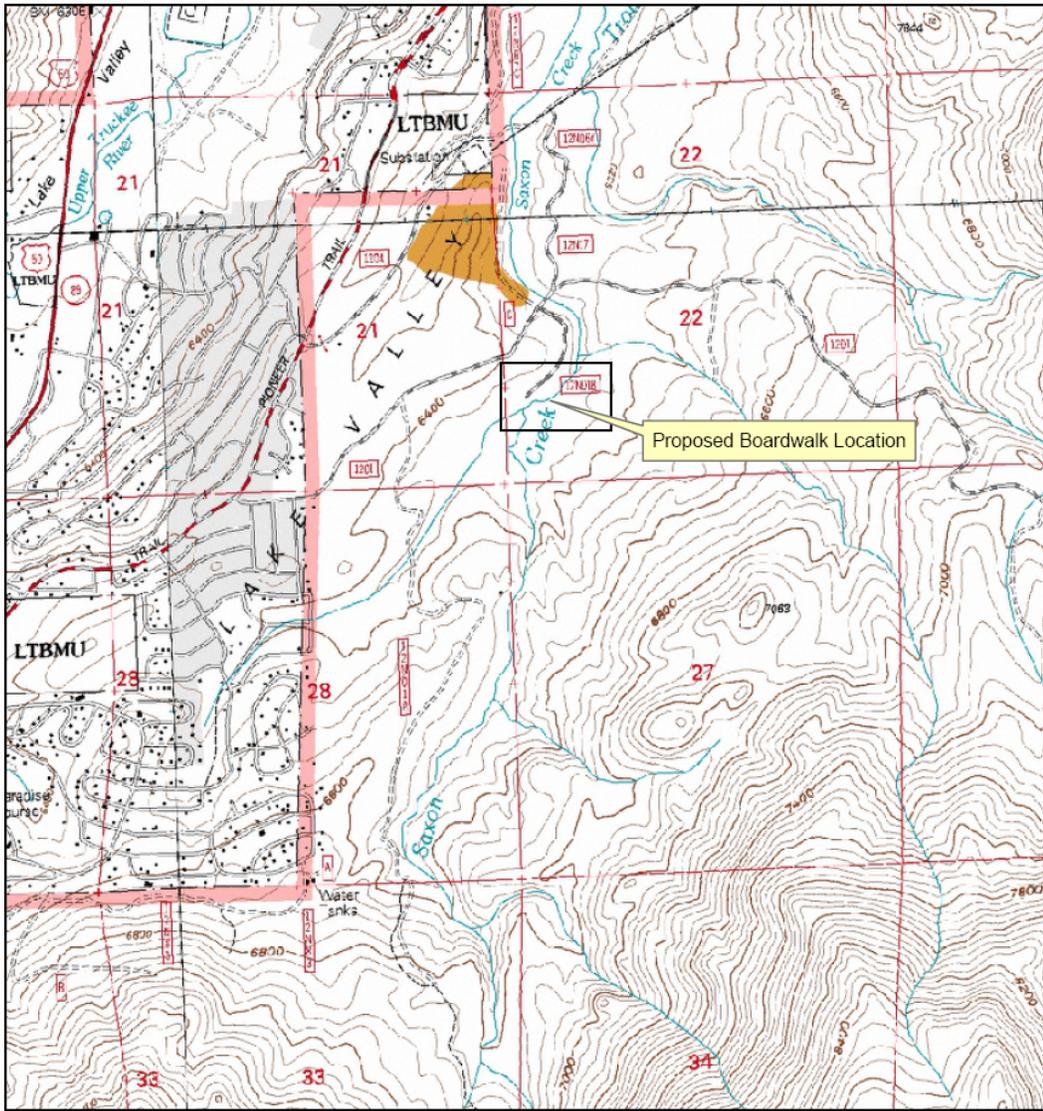
**(3) Whether this project monitoring fits in to a larger monitoring or research program?**

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 and effectiveness of BMP retrofits on Forest Service roads and trails.

**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.



## SNPLMA Project Proposal Saxon Creek Low Water Crossing

USDA Forest Service  
Lake Tahoe Basin Management



For more information, contact: Lake Tahoe Basin Management Unit  
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