

Appendix B-8

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

Project Name: SR 431 Water Quality Improvement Agency: FHWA (NDOT)
 Prepared by: Steve Cooke Phone: (775) 888-7621 EIP #: 870
 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.)	\$ _____	_____ %
2. Direct Labor (Payroll) to Perform the Project	\$52,500	15%
3. Project Equipment (tools, software, specialized equipment, etc.)	\$ _____	_____ %
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)	\$ _____	_____ %
6. Cost of Contracts, Grants and/or Agreements to Perform the Project	\$280,000	80%
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)	\$17,500	5%
TOTAL*:	<u>\$350,000</u>	<u>100%</u>

Estimated Key Milestone Dates:

Milestone/Deliverables	Date:
Complete Preliminary Design	August 2007
Complete Final Design (PS&E)	November 2008
Begin Construction	May 2009
Complete Construction	October 2011
Final Completion Date:	July 2012

COMMENTS:

**Appendix I-1
TAHOE PROJECT PROPOSAL**

Project Name: SR 431 Water Quality Improvement		EIP#: 870
Lead Agency: Federal Highway Administration	Contact: NV Division Phone Number: (775) 687-1205	
Threshold: Water Quality/Scenic Resources	Email Address: susan.klekar@fhwa.dot.gov	
Threshold Standard: Stormwater Runoff Quality	Total Project Cost: \$ 4,317,000 Round 7 Funding requested: \$ 350,000 Is this a multi-year project? <u>Yes</u>/No	

Project Description:

FHWA, in conjunction with Nevada Department of Transportation, and TRPA is developing a water quality improvement project on SR 431 (Mt. Rose Highway) from the junction with SR 28 at Incline Village to the hydrologic basin boundary, a distance of approximately 6.6 miles. The proposed improvements include erosion control, water quality enhancement, upgrade of drainage facilities, stabilization of roadway cut and fills slopes, rock fall mitigation, and construction of new retaining walls. This project is part of a comprehensive plan to address the environmental issues associated with NDOT's roadways in the Lake Tahoe Basin. Funding for this request (\$ 350,000) will be used for right of way acquisition.

The SR 431 project is located on Federal lands managed by the United States Forest Service. SR 431, designated as a Forest Highway, provides access to the Toiyabe, Tahoe and Eldorado National Forests.

Describe the purpose and need for the project:

The purpose of the project is to:

1. Reduce discharge of sediments and pollutants
2. Improve/repair existing water quality treatment facilities
3. Improve/repair existing source control facilities
4. Improve the scenic and aesthetic character of the Mt. Rose Highway
5. Implement erosion control, drainage, and water quality protection practices within the roadway right of way which is expected to substantially reduce the mobilization of potential pollutants flowing into Lake Tahoe

The need for the project is driven by the following:

1. Existing water quality treatment and erosion control facilities do not function effectively and consequently runoff exceeds effluent discharge standards
2. Adjacent cut and fill slopes continue to erode and require stabilization
3. Existing drainage systems lack permanent BMP's which result in the discharge of degraded water quality
4. Existing slope stability structures are failing which in time, will lead to increased erosion and degraded water quality

Describe the goals and objective of the project:

The goals of the project are to:

1. Construct water quality treatment and erosion control facilities that will meet regulatory requirements to the maximum extent possible
2. Provide cut and fill slope source control and stability
3. Enhance roadway runoff discharge quality by retrofitting existing drainage system infrastructure with BMP's
4. Develop functional water quality improvements that enhance the Mt. Rose Highway scenic corridor

Describe the anticipated project accomplishments:

1. Create an aesthetically pleasing highway corridor segment that contributes fewer pollutants to Lake Tahoe and has fewer impacts on the greater physical environment of the Lake Tahoe Basin
2. Construct a project that preserves the biological, water quality, environmental, and aesthetics values of Lake Tahoe
3. Substantially reduce the mobilization of potential pollutants from this reach of SR 431

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

NDOT, as part of its Phase III Environmental Improvement Program started the planning and environmental documentation process needed for this project in August 2005 upon completing the asset inventory and existing condition fieldwork. Hydrologic, cultural and biological assessment has commenced and will be completed by August 2007, final design (PS&E) by November 2008 with construction beginning in May of 2009.

Describe partnerships for this project. (Include documentation):

Since 1997, NDOT has formed an effective partnership with fourteen (14) different government agencies to address larger scale issues and concerns of all agencies involved in the Tahoe Basin. These agencies include: Federal Highway Administration (FHWA), U.S. Forest Service (USFS), U.S. Army Corps of Engineers (ACOE), U.S. Fish and Wildlife (USFW), U.S. Environmental Protection Agency (USEPA), Tahoe Regional Planning Agency (TRPA), Nevada Division of Environmental Protection (NDEP), Nevada Division of Wildlife (NDOW), Nevada Division of State Lands (NDSL), Nevada Division of State Parks (NDSP), Nevada Tahoe Conservation District (NTCD), Washoe County, Douglas County, and Carson City. These partners have been addressing NDOT's EIP issues including funding, design, environmental, transportation, research and public involvement.

The Technical Advisory Committee (TAC), comprised of members from NTRT, NDOT, NDEP, TRPA, Washoe County, and Douglas County is guiding this project design. As a group, design alternatives are evaluated and decisions are made to produce the most efficient, best functioning and cost effective design.

For planning and preliminary design, NDOT is providing approximately \$ 752,000 to address preliminary engineering design, utility designation, cultural, biological, water quality studies, decant water disposal and contingency work. However this represents only a portion of the total that is needed to complete the design work. It is anticipated that an additional \$ 350,000 will be needed to address right of way needs and utility issues in 2008.

Construction is anticipated to begin in 2009. Approximately \$ 2.7 million of the total State of Nevada Legislatively approved Lake Tahoe Bonds have been earmarked for construction of this project. The remaining bond portions will be used to fund other Phase III EIP projects.

Describe the anticipated project effectiveness monitoring program for use with adaptive management framework:

As part of the Phase III effort, a monitoring program is being implemented to characterize roadway runoff quality and to gauge the effectiveness of previous source and erosion control projects. Knowledge gained from this monitoring program will be used to guide future design.

Include an 8-1/2x11 map depicting the project, or research/study area.

SR 431 Water Quality Improvement Project*

Phase	Schedule	Estimated Cost	Current Funding	Current Funding Type	Needed Funding (Approximate)
Planning & Environmental	2006-2007	\$ 752,000	\$ 752,000	State Gas Tax	\$ 0
Design	2007-2008	\$ 565,000	\$ 565,000	State Gas Tax	\$ 0
Right of Way	2008	\$ 350,000	\$ 0	Unknown	\$ 350,000
Construction	2009	\$ 2,650,000	\$ 2,650,000	Tahoe Bond	\$ 0
Total		\$ 4,317,000	\$ 3,452,000		\$ 350,000

* This project is listed in the 2006-2015 State Transportation Improvement Program

SR 431 Water Quality Improvement Project Limits

