

TAHOE SCIENCE CONSORTIUM WORK PLAN

Submitted for: Round Eight Funding of the Southern Nevada Public Lands Management Act (Lake Tahoe science funding)

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Introduction and Background

In support of a common desire to preserve, restore, and enhance the unique environmental values of the Tahoe basin, federal, state and local resource management/planning agencies and research institutions frequently partner in science-based planning and decision making. Collectively, these groups recognize that scientific inquiry, resource assessment, and interpretation of available data are critical to the development and implementation of environmental policy. Additionally, these groups recognize that use of the best available scientific information is required by resource managers to establish environmental standards for water and air quality, soil conservation, wildlife, fish, and vegetation communities, as well as noise and scenic conditions, and recreation opportunities in the Tahoe basin.

Since an initial MOU was signed in 1999 –pledging greater collaboration among the research institutions working in the Tahoe basin– the relationship between the scientific community and the management agencies/decision-makers has grown substantially. The formation of the Lake Tahoe Science Advisory Group (SAG) in 2000 helped foster this relationship; however, it was recognized that a more formal organization with financial resources and increased institutional commitment from both research entities and management agencies was required.

On August 20, 2005, thirteen executives from academia, State government (Nevada and California) and the Federal government signed an MOU that pledged cooperation towards the formation and operation of the Tahoe Science Consortium (TSC)¹.

The purpose of the TSC is to contribute to the restoration of Lake Tahoe, its watershed, and its air basin by providing timely scientific information of direct relevance to natural resources management and land management in the basin. Substantial gaps exist in our current understanding of environmental processes in the Lake Tahoe basin, and a unified and collaborative research effort can provide the most efficient path to restoring and maintaining the multiple components of the basin's complex ecosystems.

Environmental management depends on reliable science efforts that are carried out in an applied and integrative manner. Numerous institutions are actively involved in research, modeling, and monitoring in the Tahoe basin, and it is a primary objective of the TSC to provide environmental managers and decision-makers with the most comprehensive and well-synthesized advice that can be drawn from those endeavors. The TSC is working to accomplish this objective by:

- Promoting integration among the many current and future scientific projects in the basin.
- Developing processes in collaboration with management agency representatives that provide for ongoing communication between the scientific community and resource management agencies.
- Conducting synthesis and review work to summarize and communicate the wealth of existing scientific information.

¹The TSC MOU is available at www.tahoescience.org

- Developing and administering an independent peer review process for science proposals and products.
- Developing a sustainable organizational framework, governance structure, and communication infrastructure for the TSC.

The University of Nevada-Reno (UNR), the University of California-Davis (UCD), the Desert Research Institute (DRI), the US Geological Survey (USGS) and the USFS-Pacific Southwest Research Station (PSW) have all demonstrated a longstanding commitment to research, monitoring and the application of science to management and policy at Lake Tahoe. UNR, UCD and DRI have joined as partners in the submittal of this proposed work plan. As primary collaborators, the USGS and PSW will be included as active participants and equal partners in all TSC discussions and work products.

The working structure of the TSC includes: (a) an Executive Committee composed of executive administrators from the five research institutions that provides strategic guidance and leadership; (b) a Committee of Scientists (COS) that is responsible for achieving the goals of the Consortium; (c) a director and program coordinator who work with the COS to fulfill TSC commitments, produce products, and facilitate coordination between the TSC and resource management agencies; and (d) the Science Community, which is open to all researchers with interests and activities in the Tahoe basin. The TSC also nominates a science and research representative to serve on the Lake Tahoe Federal Advisory Committee.

This work plan proposes five tasks for the fourth year of TSC operations, including:

- 1) Focused Science Review and Synthesis: Prepare a summary of science activities in one or more topic areas that communicates relevant findings and relates those findings to current management/policy issues in the Tahoe Basin. The results of this work are intended to complete PSW-led efforts to generate the Lake Tahoe Science Program Update Report.
- 2) Standard Methods for Regional Monitoring: Continue to work with Lake Tahoe basin agencies to develop regional monitoring approaches for specific issue areas. These efforts will contribute to the larger goal of establishing a comprehensive monitoring strategy for Lake Tahoe basin resources, habitats, and the agents of change.
- 3) Peer Review: Administering the scientific peer review of research proposals, science products, or technical programs related to Lake Tahoe basin management and restoration.
- 4) Technical Assistance: Providing scientific input and technical advice to resource management agencies, including organization of one or more public workshops that target challenging resource management issues.
- 5) Program Management: Managing the day-to-day operations and communications of the TSC including interactions with the Federal Interagency Partnership and the Lake Tahoe Federal Advisory Committee. Preparing progress reports as required by SNPLMA/BLM reporting conditions.

These tasks with their associated timelines and deliverables are discussed in more detail below.

The successful accomplishment of the tasks described in this proposal requires the maintenance of a modest infrastructure to organize and facilitate all TSC activities. This work plan proposes to continue funding an executive director who will oversee the TSC's day-to-day operations and serve as a strategic planner in collaboration with the TSC Committee of Scientists (COS) and Executive Committee. The executive director will lead tasks such as convening regular and special meetings of the COS and Executive Committee; maintaining the TSC organizational and governance structure; conducting outreach; working with researchers to engage the Science Community and facilitating the interaction between science and management through jointly defined processes for ongoing communication and interaction; managing work plan tasks and product delivery; and organizing/managing the independent scientific review activities and technical workshops. The work plan also proposes to continue funding a half-time program coordinator who will assist the executive director in fulfilling his responsibilities.

Task 1: Focused Science Synthesis and Review: Review of Current Water Quality Findings in Relation to Programmatic Needs for Restoration

Based on feedback from a large number of groups in the Tahoe basin, agency technical staff, as well as agency board members, executives and technical staff, as well as elected officials, non-technical stakeholders and even the scientific community would all benefit from a summary of the current research and monitoring results related to water quality. Each year many scientific publications, technical documents and conference posters are written that report on many aspects of water quality. Unfortunately, few people are aware of all this new knowledge and it is unrealistic to expect that the stakeholder community at-large will have the opportunity to read these works, yet alone summarize their findings and directly use this information in a decision-making context. Indeed, this type of information may not even find its way into management discussions unless directly introduced by technical experts.

As a result we have seen: (1) significant bottlenecks during the SNPLMA research priority and relevancy discussions, (2) a reduction in the use and citation of available scientific results in technical reports, (3) some management decisions being made without taking advantage of published material, (4) difficulty in updating the Basin's Key Management Questions, and (5) a condition where stakeholder obtain their science information in a piece-meal fashion, finding it difficult to appreciate the numerous examples of how management and science are actually connected in the Tahoe basin.

As science typically comes in the form of important, yet incremental advances we need a mechanism to provide both: (1) a summary of individual project results, and (2) a format linking them together and coupling them to management programs and decisions. Without this the flow of information is compromised and could even be lost to those outside the scientific community.

Work Activities and Products

For this task, we propose to allocate TSC funding to prepare, print, and distribute a written summary of current published findings within the water quality theme. As noted above the term published refers to such items as journal papers, technical reports, conference presentations, etc. This task is not intended to engage in new data analysis, nor is it a review of the published documents. It will, however, integrate findings, place these current findings into the context of programmatic needs, and speak to the manner in which these findings apply to the restoration agenda for the Tahoe basin.

The product would focus on reviewing and synthesizing recent science investigations. Specifically, this product would:

- 1) Include a reference section of what has been published in 2008 and 2009 (papers, reports, etc),
- 2) Provide a concise overview of major findings within the context of presenting new knowledge and how this contributes to existing knowledge,
- 3) Relate those findings to findings contained in the Science Update Report produced by PSW.
- 4) Briefly describe how those finds relate to current key water quality management issues,
- 5) Update water quality research priorities relative to the Science Plan and near-term management information priorities. This information would be focused to inform discussions during the annual SNPLMA science planning process, and
- 6) To the extent possible identify investigations that are in progress.

Possible topics to include in the water quality theme include, but are not limited to: fine particles, climate change implications to hydrology and Lake limnology, forest and forest fuels management (as related to water quality), aquatic invasive species, stormwater and BMP's, limnology, hydrology, pollutant sources and transport. The resulting written product would be completed by March 2010. Some funding has been allocated for professional formatting and printing. While this product is not intended to be a major synthesis done on an annual basis, it is foreseeable that a more in-depth synthesis could occur every three years based on these more-focused annual reviews.

Science Synthesis and Review Budget

Category	Cost	Description
Domestic Travel	\$500	Travel for this task includes automobile mileage and per diem (lodging, meals, and incidental expenses) for members of the Science Community who participate in review and synthesis work.
Equipment	N/A	N/A
Supplies	\$650	It is anticipated that a total of \$13,000 (direct costs) in supplies will be required to support all efforts described in this work plan. This value is apportioned among the tasks, with 5% anticipated to support science review and synthesis.
Personnel/Labor	\$28,758	

Program Coordinator	\$2,120	Includes salary (\$17,891) and fringe benefits (\$7,655); 1/2-time for 1 month. The Program Coordinator will assist the science community participating in review and synthesis work, including scheduling meetings, report production, note taking, preparation of meeting materials, and communication among agency and science representatives.
Science Community	\$26,638	Used to support salaries, and fringe benefits of practicing researchers that serve as authors or editors for a review and synthesis document. (Amount based on an average rate of \$100/hr (salary + fringe) and provides approximately 400 hours of work.)
Construction	N/A	N/A
Printing	\$500	Provides funding for the printing and distribution of review and synthesis products, including web site postings.
Total Cost Review and Synthesis	\$30,408	

Task 2: Monitoring vegetation management activities in sensitive areas of the Tahoe Basin

The goal of this task is to complete the development of a monitoring plan that describes standardized methods for monitoring soil disturbance resulting from vegetation management activities in sensitive areas (e.g., SEZ's and steep slopes) in the Tahoe Basin. It is our intention to produce a monitoring plan that agencies can uniformly apply throughout the Tahoe Basin. An independent panel commissioned to review vegetation management practices in sensitive areas of the Tahoe Basin found that "There is a critical need to develop a basin-wide protocol for 'standardized methods of ecological measurement and monitoring' in the Tahoe Basin." Funding allocated under this task would be used to directly engage members of the scientific community to work with agency representatives in the development of standardized methods for documenting soil disturbance resulting from vegetation management projects and for documenting the effectiveness of required mitigations. In the longer term, it is expected that application of standardized monitoring methods will allow for direct comparison of results among projects and technologies. Such comparisons are needed to support advancement of vegetation management practices and technologies used in the Tahoe Basin.

Work Activities and Products

Work by the TSC to develop standardized monitoring plan for soil disturbance that can be applied throughout the region will require collaboration and interaction among agency representatives and the science community. A first draft of this monitoring plan was developed and reviewed (both independent and agency review) as part of the TSC Round 7 work plan. However, several steps are necessary to complete the development of this monitoring plan, including:

1. Meeting with agency representatives to summarize comments received on the draft plan, discuss and resolve disagreements about procedures, and to clarify the context for this monitoring plan -- SEZ's and steep slopes, short term effects on

2. Develop a revised draft monitoring plan that describes the sampling methodologies, a data base design, and analytical and reporting methods
3. Distribute the draft plan to agency representatives, stakeholders, and the science community for review and comment.
4. Revise the plan based on the comments received and produce a final plan for public distribution and use.

Vegetation Management Monitoring Plan Budget

Category	Cost	Description
Domestic Travel	\$750	Travel for this task includes automobile mileage and per diem (lodging, meals, and incidental expenses) for the TSC Executive Director and members of the Science Community who participate in development of a monitoring plan for vegetation management projects.
Equipment	N/A	N/A
Supplies	\$650	It is anticipated that a total of \$13000 (direct costs) in supplies will be required to support all efforts described in this work plan. This value is apportioned among the tasks, with 5% anticipated to support science planning work.
Personnel/Labor	\$26,212	
Executive Director	\$6,831	Includes salary (\$95,321), fringe benefits (\$41,305). The Director will allocate 5% time to this task. He will review and edit draft documents, manage any outside reviews, and participate in meetings among the authors and agency staff that will use this document.
Science Community	\$19,381	Used to support salaries, and fringe benefits of a graduate student assistant that will work to develop a monitoring plan for vegetation management projects (Amount based on an average rate of \$20/hr (salary + fringe) and provides approximately 956 hours of work.)
Construction	N/A	N/A
Printing	\$1,000	Provides funding for printing and distribution of the veg. management monitoring plan.
Total Cost Monitoring Plan Development	\$28,612	

Task 3: Peer Review
Provide Independent Scientific Peer Review Services

Independent and unbiased review of both proposed and completed scientific work is a critical component of the scientific process. In complex systems where science activities are undertaken to produce information that reduces uncertainty, addresses

gaps in knowledge, and informs decision-makers, independent and unbiased scientific review can be applied at multiple levels:

The Proposal Level: The review of proposals for new science is intended to improve the quality of the experimental design associated with the proposed research, monitoring, or adaptive management project.

The Project Level: Review of products (e.g., reports and manuscripts) from completed science projects ensures that data analysis and interpretation are appropriate and justified based on the work completed and the results of other relevant studies.

The Program Level: Reviews at this level are intended to provide expert advice and ideas about how to develop scientific information that best meets management needs or policy goals, and to provide feedback on the quality of science that underpins program activities.

A significant function of the Tahoe Science Consortium (TSC) is to provide the service of independent and unbiased scientific review of science activities or scientific results produced through any of the levels listed above. This peer review is intended to ensure that science activities conducted in the basin, and funded by agencies charged with the management and restoration of the Lake Tahoe basin, are scientifically sound, consistent with the basin's science plan, compatible with previous research activities, and in compliance with the federal Data Quality Act (Section 515 of Public Law 106-554).

Independence and lack of bias are the foundation of any credible peer review process. Although scientists from the member organizations of the TSC may be among those who submit research proposals to a request for proposals, the TSC is emphatic that the peer review process it administers will be credible, transparent, independent, and unbiased.

This work plan provides funding necessary to allow the TSC to continue providing essential independent peer review services of science activities in the Lake Tahoe basin. Sufficient funding is requested to support TSC-led peer review of the science proposals received in response to the SNPLMA Lake Tahoe science program request for proposal.

The TSC will also work with agencies to scope special initiative reviews or project reviews; however, this work plan does not include funding to complete these reviews. The TSC will remain receptive to administering additional reviews if supplementary external funds are provided.

Work Activities and Products

The peer review process document developed by the TSC² will guide the TSC's peer review activities funded under this work plan. Generally, the work activities and products for this work plan will follow the steps listed below:

² The document describing the TSC peer review processes is available at <http://www.tahoescience.org/EventImage.aspx?sa=1&id=110>

Peer Review of Science Proposals

1. Work with the sponsoring agency(s) to develop the scope and timeline for the review of SNPLMA science proposals received through a specific RFP.
2. Assemble independent reviewers and administer the review process.
3. Complete a relevancy check with agency representatives.
4. Compile and synthesize reviewer’s comments and present results to the sponsoring agency or other entity as appropriate in the form of a prioritized list of project proposals recommended for funding.

Expected Benefits and Measuring Effectiveness

The expected benefits are more technically sound science proposals, increased credibility of science products, and increased confidence in the science information used to make management decisions. We will track various review metrics (e.g., total peer review costs, length of review period, peer review efficacy, average technical and relevancy scores of the proposals) as measures of the review effectiveness.

Peer Review Budget

Category	Cost	Description
Domestic Travel	\$400	Travel for this task includes automobile mileage, per diem, for members of the TSC Peer Review Committee and Program Coordinator to attend committee meetings.
Equipment	N/A	
Supplies	\$5,200	It is anticipated that a total of \$13,000 (direct costs) in supplies will be required to support all efforts described in this work plan. This value is apportioned among the tasks, with 40% anticipated to support the TSC peer review services.
Personnel/Labor	\$81,782	
Executive Director	\$47,819	Includes salary (\$95,321), fringe benefits (\$41,305). The Director will allocate 35% time to this task. He will be a member of the PRC and will have lead responsibility for administering all peer reviews undertaken by the TSC.
Program Coordinator	\$12,773	Includes salary (\$17,891) and fringe benefits (\$7,655); 1/2-time for 6 months. Assists TSC Director and Peer Review Committee with the administration of the peer review process including scheduling reviews, contacting potential reviewers, sending out review materials, organizing panel review logistics, compiling review comments, managing the peer review content of the TSC web site, and working with UNR staff to process honoraria requests and bookkeeping.
Peer Review Committee	\$3,900	Stipend for three science community representatives (\$1,300/member x 3 members) serving on the TSC Peer Review Committee.
Peer Reviewers	\$13,950	Honoraria for technical experts to perform independent peer reviews of science proposals. (Assumes 62 proposals with 3 reviews each (186 reviews total) at a cost of \$75/review.)
Peer Reviewer Contract Administration	\$2,340	Includes salary (\$1,671), and fringe benefits (\$669) for 1/2-month of UNR administrative assistant time to oversee the processing and administration of individual peer reviewer contract agreements.

Science Community	\$1,000	Direct costs (salary + benefits) to support development of Pareto analysis program used in the TSC proposal peer review process.
Construction	N/A	
Other	N/A	
Total Cost Peer Review Tasks	\$87,382	Includes all direct costs (i.e., salaries, benefits, stipends, honoraria, and supplies) to complete all peer review tasks. Indirect costs vary among the entity receiving this funding and are allocated in the budget summary.

Task 4: Technical Assistance Scientific Consultation and Information Transfer

The TSC and its scientific resources propose to contribute (as requested) directly to the design, administration, and implementation of resource management programs in the Lake Tahoe basin. TSC technical assistance may include:

- Assisting agency staff in the development of adaptive management programs and projects in key resource management issue areas, or in the development of new tools (e.g., conceptual models) important to effective adaptive management.
- Cooperating with agencies in the development of effective monitoring schemes, including goal setting, development of conceptual models, indicator selection, sampling design, data analysis, and interpretation of results.
- Assisting agencies in translation and evaluation of monitoring results, examination of management practices (where appropriate), and integration of new knowledge into resource management plans.
- Providing science information and advice to Lake Tahoe basin land and resource management agencies, participants in the basin's Environmental Improvement Program, members of the Lake Tahoe Federal Advisory Committee, and interested stakeholders.
- Assisting agencies and jurisdictions in the development of the scientific foundation underpinning environmental documents and facilitating scientific review of management documents for scientific rigor.
- Providing technical advice in the development of key management and restoration planning efforts, including regional plans (e.g., the Pathway planning process) and the Environmental Improvement Program.
- Providing technical assistance that leads to the development of recommended science themes and study areas for allocation of the Lake Tahoe SNPLMA science funding.
- Providing a technical review of the Lake Tahoe SNPLMA capital project proposals and identifying opportunities to obtain new information.

- Establish the capacity to utilize future rapid response funding to support technical assistance. The Task 4 budget includes modest funding to support rapid response planning efforts, so that the TSC is able to expeditiously respond in the case of a catastrophe.
- Completion of a forest management literature review and synthesis papers is one specific technical assistance project the TSC will complete under this work plan. The goal of this effort is to assemble all the recent scientific literature that pertains to Lake Tahoe Basin forest management issues, and to interpret results and findings that could be applicable to management problems in the Basin. This means considering both research that has been conducted in and around the Basin as well as research done elsewhere that could be relevant to Lake Tahoe Basin conditions. A web-based annotated bibliography is being produced using previously received SNPLMA funding. Funding allocated in this work plan will be combined with funding from the USFS Lake Tahoe Basin Management Unit to produce up to five synthesis papers. We anticipate the lead authors will submit these papers to professional journals for publication.

Knowledge transfer from the TSC to other agencies and the public also will be accomplished through the TSC website. This website is an important tool for information dissemination to make people aware of TSC activities and other science activities occurring throughout the Lake Tahoe Basin. The website will include information on research programs currently being performed in the basin, summaries of current and past studies, and links to information about agency, research institutions, and individual researcher activities.

The TSC proposes to organize one or more workshops to discuss technical issues associated with some of the more challenging management issues facing the Lake Tahoe Basin. The exact topics of these workshops will be determined in consultation with resource management agency representatives, but example topics include, methods for accomplishing forest fuel reduction in stream environment zones, review and summary of models developed to estimate storm water pollution loads, or identifying information needs to develop quantitative water quality standards for the near shore zone of Lake Tahoe. These workshops will focus on clarifying the state of knowledge, resolving conflicts in understanding, and reducing uncertainty. The workshops will typically last one day and may include presenters from inside and outside the Lake Tahoe basin. Written summaries of information and outcomes from each technical workshop will be posted on the TSC web page.

Technical Assistance Budget

Category	Cost	Description
Domestic Travel	\$7,400	Travel for this task includes automobile mileage and per diem for the TSC Executive Director and members of the Committee of Scientists to attend meetings and communicate with agency representatives. These funds may also be used to cover travel costs of outside researchers invited to participate in the technical workshops.
Equipment	N/A	
Facilities	\$1,500	Rental fee for use of the Tahoe Science Center auditorium for two, one-day workshops (\$750/day; direct costs).
Supplies	\$3,250	It is anticipated that a total of \$13,300 (direct and indirect costs) in supplies will be required to support all efforts described in this work plan. This value is apportioned among the tasks, with 25% anticipated to support scientific consultation and information transfer efforts.
Personnel/Labor	\$128,493	
Executive Director	\$54,650	Includes salary (\$95,321), fringe benefits (\$41,305). Director will allocate 40% time to this task. He will be the TSC point of contact for agency technical assistance requests; arranging, and tracking meetings with agencies and TSC representatives; TSC representative attending agency management meetings; work with the program coordinator and COS to maintain website contents; convene regular TSC meetings; liaison with TSC Board; lead annual efforts to develop the SNPLMA science themes and to review SNPLMA capital projects; and lead efforts to organize one or more technical workshops.
Program Coordinator	\$4,343	Includes salary (\$17,891) and fringe benefits (\$7,655); 1/2-time for 2 month. Assists TSC Executive Director in assembling information needed to produce required reports or presentations, maintaining TSC website content, organizing and documenting meetings, and ensuring effective communication among interested parties.
TSC Committee of Scientists (COS)	\$40,000	Supports time (salary and benefits) for participation in COS meetings (~6/yr.) and SMIT meetings(~4/yr.)
SNPLMA Capital Proposal Reviews	\$4,500	Honoraria (\$1,500/reviewer) for technical reviews of SNPLMA capital project proposals as specified in the SNPLMA Program Implementation Agreement.
Rapid Response	\$25,000	Provides \$5,000 to each TSC member institution to support rapid response planning.
Construction	N/A	
Other	N/A	
Total Cost Technical Assistance	\$140,643	

Task 5: Program Management

Management of the TSC operations and functions, its programs, and activities is a primary responsibility of the Executive Director and Program Coordinator.

Program management includes ongoing communication of TSC activities. These activities include convening regular meetings of the COS and TSC staff; meeting with the Executive Committee, supporting TSC participation in various agency committees (e.g., TSACC, TIE, and LTFAC); and the preparation and distribution of TSC information materials via presentations, the TSC website, or written materials.

We propose to pursue the development of a strategic plan for the TSC as part of this work plan. Development of the strategic plan will rely in part on input from agency representatives and stakeholders to determine the impact of TSC activities and to identify future program goals. The strategic plan will also propose indicators to evaluate the effectiveness of the TSC in supporting the delivery of useful and integrated science to promote restoration in the Tahoe basin.

The TSC will provide quarterly reports of its progress on the tasks described in this work plan. The schedule for submission of these reports will be set by the PSW. Specifically, these reports will summarize activities and accomplishments on the development of regional monitoring plans for the Lake Tahoe basin, implementation of the peer review process, and scientific consultation and information transfer.

Program Management Budget

Category	Cost	Description
Domestic Travel	\$1,100	Travel for this task includes automobile mileage, per diem, and indirect costs for both the TSC Executive Director and the Program Coordinator to attend meetings necessary to obtain information for grant reporting and to communicate TSC activities and progress to agency, stakeholder, and science community representatives.
Equipment	N/A	
Supplies	\$3,250	It is anticipated that a total of \$13,000 (direct costs) in supplies will be required to support all efforts described in this work plan. This value is apportioned among the tasks, with 25% anticipated to support program management efforts.
Personnel/Labor	\$33,712	
Executive Director	\$27,325	Includes salary (\$95,321), fringe benefits (\$41,305). The Director will allocate 20% time to this task. This includes attending and leading meetings with TSC representatives; representing the TSC at agency and stakeholder meetings; working with the Program Coordinator to maintain website content; and preparing quarterly progress reports.

Program Coordinator	\$6,387	Includes salary (\$17,891) and fringe benefits (\$7,655); 1/2-time for 3 month. Assists TSC Executive Director in assembling information needed to produce required reports or presentations, maintain the content of the TSC website, schedule meetings, prepare meeting notes, and provide support for TSC communication and reporting efforts.
Construction	N/A	
TSC Website support	\$2,500	Used to support the update, maintenance, and capabilities expansion of the TSC website to ensure it remains an effective communications and technical assistance tool.
Total Cost Program Management	\$40,562	Includes all direct costs (i.e., salaries, benefits, stipends, honoraria, and supplies) to complete all peer review tasks. Indirect costs vary among the entity receiving this funding and are allocated in the budget summary.

Budget Allocation Detail

Entity	Personnel Salary	Personnel Benefits	Website Maintenance (Contractor)	Travel	Peer Review Honoraria	Peer Review Committee Stipend	Supplies & Facilities Use	Printing Costs	Total Direct Costs	Indirect Costs	Total Cost PSW	Match	Grand Total
CA Tahoe Conservancy	\$95,321	\$41,305	--	\$2,000	--	--	--		\$138,626	\$36,043	\$140,157	\$34,512	\$174,669
University of California, Davis	\$40,186	\$12,860	--	\$2,200	\$1,500	\$1,300	\$14,500	\$500	\$73,046	\$7,305	\$80,350	--	\$80,350
University of Nevada, Reno	\$38,764	\$8,838	--	\$1,400	\$15,450	\$1,300	\$500	\$1,000	\$67,252	\$0	\$67,252	--	\$67,252
Desert Research Institute	\$16,667	\$5,333	--	\$2,150	\$1,500	\$1,300	--	--	\$26,950	\$5,390	\$32,341	--	\$32,341
Pacific South west Research Station	\$11,364	\$3,636	\$2,500	\$2,400	--	--	--	--	\$19,900	\$0	\$19,900	--	\$19,900
U.S. Geological Survey	\$2,525	\$808	--	--	--	--	--	--	\$3,333	\$1,667	\$5,000	--	\$5,000
Grand Total	\$204,827	\$72,781	\$2,500	\$10,150	\$18,450	\$3,900	\$15,000		\$327,608	\$50,404	\$345,000	\$34,512	\$379,512