



Cover Sheet

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|--|---|--------------------------------|--------------------|--|
| Organization Name: | Sierra Nevada Journeys | | | |
| Type: | 501(c)(3) EIN# 01-0881587 | Governmental entity? No | | |
| Address: | 190 E. Liberty St. Reno, NV 89501 | | | |
| Project Name: | Watershed Education Initiative | | | |
| Amount requested: \$33,041 | Website: www.sierranevadajourneys.org | | | |
| This funding will be used to (complete this sentence with a max of 2 sentences): | Deliver high-quality, experiential watershed education programs based on local issues associated with the Truckee River, such as water quality and invasive species while empowering youth to protect and enhance the quality of the Truckee River. Significantly increase parent engagement, citizen science, and volunteer components to increase the long-term sustainability of our Watershed Education Initiative, thereby fostering protection of the primary water source for our community. | | | |
| Key People: | Director: | Eaton Dunkelberger, CEO | | |
| | Board Chair: | Mark Burrell | | |
| | Project Contact: | Name: | Sean Hill | |
| | | Position: | Education Director | |
| | | Phone: | 775-355-1688 | |
| | | Fax: | 775-329-1689 | |
| Email: | sean@sierranevadajourneys.org | | | |
| Organization Mission: | Sierra Nevada Journeys' mission is to deliver innovative outdoor, science-based education programs for youth to develop critical thinking skills and to inspire natural resource stewardship. | | | |
| Has your organization received other grants from the Truckee River Fund? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (Please see page 7.) | If yes, | | | |
| | Date awarded: | October 2015 | | |
| | Project title: | Watershed Education Initiative | | |
| | Amount of Award: | \$28,484 | | |
| | Date awarded: | September 2014 | | |
| | Project title: | Watershed Education Initiative | | |
| | Amount of Award: | \$23,900 | | |
| | Date awarded: | March 2014 | | |
| Project title: | Watershed Education Initiative | | | |
| Amount of Award: | \$23,750 | | | |

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- A. Projects that improve bank or channel stabilization and decrease erosion.
- B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.¹
- E. Other projects that meet the evaluation criteria.

NARRATIVE



1. Specific project goals and measurable outcomes and how you will measure and report them.

During the past 7 years Sierra Nevada Journeys’ (SNJ) Watershed Education Initiative (WEI) has impacted over 5,500 students and more than 400 educators. This initiative educates students about the local watershed including: human impacts on the watershed, water quality, and watershed protection. While in-class and field-based lessons reach students and educators, WEI’s additional outreach components serve to engage families and community volunteers. Through programs led by our credentialed science teachers and with the assistance of our volunteer program, we will successfully meet the following objectives:

783 K-8th grade students receive watershed-based outdoor science education in the Truckee River Watershed.

100% of students gain first-hand experience with the local watershed through a field-study on the Truckee River or one of its tributaries.

80% of students can define what happens to rain water, and associated non-point source pollutants after they enter a storm drain.

70% of students can use knowledge of storm drains to describe how individuals and communities can protect watersheds.

80% of students can correctly identify, label, and diagram the Truckee River Watershed.

95% of students participating in “Hands in the River” curriculum complete a Truckee River issue case study on invasive species in the watershed.

87 volunteers engage with WEI and serve 522 educational service hours.

783 parents receive engaging follow-up messages from SNJ with watershed-focused information and resources geared towards supporting parental involvement and engagement in their child’s watershed learning.

Methods to measure objectives include pre- and post-assessments scores, and an internal database that tracks participating students, schools, and volunteers. Outcomes that we expect to achieve through WEI include the following short, mid, and long-term changes in knowledge, attitude, and behavior:

| | Short Term | Mid-term | Long Term |
|------------------|---|--|--|
| Knowledge | <p>Students understand important science concepts related to the Truckee River watershed. Students learn about an aquatic invasive species (AIS) issue facing the Truckee River and its impacts.</p> <p>Parents engage in student learning to increase school-based education into local homes.</p> | <p>Students incorporate knowledge gained from the program and apply it to new situations, including in the classroom.</p> <p>Teachers use extension lessons (provided by SNJ), student enthusiasm for the Truckee continues through watershed exploration.</p> | <p>Improved educational system that incorporates hands-on watershed lessons about the Truckee River watershed to foster higher-order critical thinking and problem solving skills.</p> <p>Students understand and discuss with parents how their behavior affects the Truckee River.</p> |
| Attitudes | <p>Students articulate how their actions affect the Truckee River watershed and local ecosystems.</p> <p>Parents discuss protection of our water resources with their students.</p> | <p>Students share watershed knowledge with their friends and families to encourage environmental stewardship.</p> | <p>Environmentally literate families foster a communal sense of stewardship and appreciation for Truckee River watershed.</p> |
| Behavior | <p>Students take ownership of actions and suggest ways they can help improve the Truckee River watershed.</p> <p>Parents and volunteers engage in watershed education directly.</p> | <p>Students influence peers on actions related to the watershed.</p> <p>Parents and volunteers increase watershed awareness and share knowledge with the community.</p> | <p>Improved health of Truckee River watershed and local ecosystems as students and their families adopt environmental stewardship practices that help reduce water pollution.</p> |



2. Project location.

The three main field sites for this program will be the Truckee River at the McCarran Ranch Preserve, Galena Creek, and the Oxbow Nature Study Area. These locations are convenient for Truckee Meadows' students and foster a sense of ownership for the participants because of their proximity to home. Water samples for WEI are taken from a variety of monitoring sites along the Truckee River.

3. Project description.

Through this funding, SNJ will serve 783 students in 29 classrooms throughout northern Nevada. Conducted over a four-week period, WEI includes three in-class lessons, one field-study experience, pre- and post-assessments, classroom extension lessons for teachers, family and community engagement, and citizen science. Curriculum developed and delivered by SNJ's team of credentialed teachers aligns to state and national standards and the North American Association for Environmental Education's Guidelines for Excellence. SNJ is continually seeking ways to expand the program. Most recently, SNJ collaborated with the Nevada Museum of Art (NMA) to create a successful watershed-focused STEAM (science, technology, engineering, art, and math) program for local 6th grade students.

WEI Overview

The *school-based* component includes three in-class lessons for a total of 4.5 hours of engaging instruction. This component fosters student interest in science by connecting them with their local watersheds, wild lands, and natural resources. Students participate in hands-on lessons that incorporate the Truckee River watershed, the water cycle, point and non-point source pollution, invasive species, sources and impacts of erosion, water conservation and stewardship. Through a case study model funded by the Truckee River Fund in 2013 students study pressing issues facing the watershed and learn how to address the problem. The case study currently focuses on the discovery and spread of the New Zealand mud snail in the Truckee River.

The *field-based* component includes approximately one day of outdoor science education as students hike around the Truckee or one of its tributaries. Students get their hands in the water to seek clues related to the health of the watershed and determine water quality by collecting and identifying macro-invertebrates (aquatic insects) or conducting chemical tests such as pH, dissolved oxygen, or turbidity. Students search for evidence of the New Zealand Mud Snail to learn about water quality issues facing the Truckee River. SNJ instructors encourage students to participate in stewardship projects with their friends and families such as the Truckee River Cleanup Day. Additionally, SNJ will support the Truckee River Snapshot Day, an annual student-based water quality-monitoring event that SNJ staff members help to facilitate.

SNJ provides four ready-to-use classroom *extension lessons for teachers* that help students prepare for and review learning objectives as well as extend and reinforce each SNJ-directed lesson. By explicitly modeling modern teaching methods and reinforcing with SNJ's classroom lessons, we support educators and multiply the effects of our student programming. Funded by the Nevada Division of Forestry and Project Learning Tree, extensions help teachers teach the Arts, Math, English Language Arts (ELA), and Social Studies through a watershed-focused lens. With a focus on student achievement, we provide teachers with meaningful and easy-to-use interdisciplinary bridges to build on and reinforce WEI's lessons.

To encourage *family engagement* SNJ provides parents with an email summary and pictures of their child's experience after each 4-lesson unit along with information for family-based discussion of the curriculum. This increases parent involvement allowing individuals within families to reinforce the attitudes, motivations, skills, and behaviors learned and to foster parent-student communication about watershed-related topics. The National Parent Teacher Association identifies many benefits of family engagement, including increased student achievement, regardless of socioeconomic status, ethnic/racial background, or the parent's education.

The *volunteer component* of the program builds our capacity to involve the local community and broadens accessibility to our programming for low-income schools by helping to keep costs low. Volunteers, who are



primarily comprised of retired educators, naturalists, and parent chaperones, consistently report learning tremendous amounts in their participation with WEI. Community and parent volunteers will donate 522 hours. SNJ collaborates with local *citizen science* (also known as crowd-sourced science) projects as an innovative way to foster student interest in science and technology while also engaging them in environmental stewardship activities. The Truckee River Guide (TRG) is an on-line, interactive field guide and community wildlife-mapping project. Visitors to the site learn about local species of plants and animals and can submit their own photos and observations to create a public record of wildlife presence along the Truckee River. SNJ students share data, artwork and stories of our classes' explorations at the Truckee River. See previous student contributions here: <http://truckeeriverguide.org/sierra-nevada-journeys/>

4. Grant priorities.

WEI is an education program that addresses water, water quality and watershed protection for K-8th grade students, directly aligning with grant priority VI: *Stewardship and Environmental Awareness*. Students gain first-hand experience with the Truckee River, explore human impacts on their water source, and obtain skills and knowledge to help protect the watershed. WEI advances this priority effectively because of whom it serves and how. Elementary childhood is a critical time during which a person's role as an environmental steward is developed. Studies show that adults with environmental awareness had at least one transcendent experience in nature when they were children, fostering their interest in environmental protection. The need to increase access to these experiences is strong.

A recent study showed that American children are spending 30 minutes of unstructured time outdoors each week.² Children's access to nature has been radically reduced, decreasing their understanding of an individual's role and impact on their environment.³ In turn, children are not learning about local issues facing the Truckee River nor what they can do to prevent further degradation of this river ecosystem. SNJ's program successfully teaches children about these issues by encouraging them to explore and analyze the natural world around them. This is an evidence-based method backed by research. A 2005 study revealed a 27% increase in test scores of students who attended outdoor education programs.⁴ The National Wildlife Foundation's "Back to School Back Outside" report states that 78% of children who spend regular time in the outdoors are better able to concentrate and perform at a high level in the classroom.

5. Permitting. N/A

6. If future phases of the project will be needed, identify anticipated sources of funding. N/A

7. Principals involved in leading or coordinating the project or activity.

Credentialed science educators on the SNJ staff will be directly responsible for coordination and delivery of Watershed Education programs. Sean Hill, SNJ's Education Director, will oversee the implementation of WEI. Sean is a former science teacher and holds a Bachelor of Science degree from Montana State University and a Master of Science degree in Human Dimensions of Natural Resources from Colorado State University. His passion for outdoor science education was inspired by his service as a Graduate Fellow for the Walking Mountains Science School in Avon, Colorado.

8. Number of staff positions involved in project: Fulltime 0 Part-time 7

9. Number of volunteers involved in project and an estimated number of volunteer hours.

87 volunteers (including field educators and parent volunteers) will donate 522 volunteer hours.

² Oliver R. W. Pergams and Patricia A. Zaradic. "Videophilia: Implications for Childhood Development and Conservation", *The Journal of Developmental Processes* 2:1, 2007.

³ Charles, Louv, Bodner, and Guns. "A Report on the Movement to Reconnect Children to the Natural World", 2009

⁴ American Institute for Research



10. Time Line of Project.

| Key Dates | Task/ Milestone | Description/Notes |
|--------------------------------|--------------------------------|---|
| Present – Dec. (Continuous) | School Outreach | SNJ outreach efforts are continuous to reach as many local schools as possible. Outreach is now underway for Quarter 2, 3 & 4, 2016. SNJ targets schools that participated in watershed programming in the past and new schools that have not received WEI. |
| Feb. – Dec. | Program Delivery | SNJ instructors will deliver engaging watershed education lessons to 783 students through school-based and field-based programs. |
| March - Dec. | Program Assessment Compilation | SNJ staff will compile student assessment data. These results will be utilized to update the watershed curriculum to ensure effective programming in the future. |
| Dec. | Final Report | Submit the final report to the Community Foundation of Western Nevada. This report will include a summary of the work completed, student assessment data, and a budget update. |

11. Success. Tell the committee how we will know you succeeded in what you proposed to do.

Both pre- and post-assessments are required to measure the impact on student learning and sense of stewardship. The following objectives will help determine the success of the Watershed Education Initiative:

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80% of students can define what happens to rain water, and associated non-point source pollutants after they enter a storm drain.

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95% of students participating in “Hands in the River” curriculum complete a Truckee River issue case study on invasive species in the watershed.

87 volunteers engage with WEI and serve 522 educational service hours.

783 parents receive follow-up messages from SNJ about the program; parents receive watershed-focused information and resources to support parental involvement and engagement in their child’s learning.

12. Grant match.

| | | |
|--|---|-----------------|
| Match amount to be provided: | | \$17,690 |
| Match details: | Match is: | |
| | Cash | \$7,250 |
| | In-kind | \$10,440 |
| For the cash portion of your match, is the funding already being held by the applicant for this project? Yes ___ No <u>X</u> | | |
| Description of matching funds/in-kind donations: | Match provided by bus transportation expenses paid for by the Washoe County School District. In-kind match provided by field educator and parent volunteer hours. | |



13. Project budget

| Budget Item Description* | ORIGINAL PROJECT BUDGET | | | Total |
|---|-------------------------|-------------------------------|-----------------|-----------------|
| | TRF \$ | Other Funding Name** | Match \$ | |
| Labor—paid | \$27,519 | - | \$0 | \$27,519 |
| Labor--volunteer (\$20/hr) | \$0 | SNJ Volunteers | \$10,440 | \$10,440 |
| Materials | \$1,566 | - | \$0 | \$1,566 |
| Other (be specific): <i>Transportation for SNJ educators to and from schools and field-sites</i> | \$983 | - | \$0 | \$983 |
| School bus transportation for students | \$0 | Washoe County School District | \$7,250 | \$7,250 |
| Overhead (13%) | \$2,973 | | \$0 | \$2,973 |
| TOTAL | \$33,041 | | \$17,690 | \$50,731 |



Continued List of Grants Received, Sierra Nevada Journeys

| | |
|-------------------------|--------------------------------|
| Date awarded: | October 2013 |
| Project title: | Watershed Education Initiative |
| Amount of Award: | \$24,200 |
| Date awarded: | March 2013 |
| Project title: | Watershed Education Initiative |
| Amount of Award: | \$16,050 |
| Date awarded: | October 2012 |
| Project title: | Watershed Education Initiative |
| Amount of Award: | \$12,690 |
| Date awarded: | October 2011 |
| Project title: | Watershed Education Initiative |
| Amount of Award: | \$10,000 |
| Date awarded: | March 2011 |
| Project title: | Watershed Education Initiative |
| Amount of Award: | \$10,000 |

Mount Rose Noxious Weed Monitoring and Treatment #4
Truckee River Fund 2016

Cover Sheet

| | | | | |
|---|--|---|--|--|
| Organization Name: | Friends of Nevada Wilderness | | | |
| Type: 501(c)(3) | 501(c)(3) EIN# 88-0211763 | Governmental entity? No | | |
| Address: | 1360 Greg St. #111 Sparks Nevada 89431 | | | |
| Project Name: | Mount Rose Noxious Weed Monitoring and Treatment #4 | | | |
| Amount requested: \$21,002 | Website: www.nevadawilderness.org | | | |
| This funding will be used to (complete this sentence with a max of 2 sentences): | Friends of Nevada Wilderness seeks to treat approximately 75 acres of noxious weeds on Humboldt-Toiyabe National Forest lands within the Truckee River Watershed. | | | |
| Key People: Richie Bednarski, Nora Kaufmann | Director: | Shaaron Netherton | | |
| | Board Chair: | Roger Scholl | | |
| | Project Contact: | Name: | Richie Bednarski, Nora Kaufmann | |
| | | Position: | Northern Nevada Stewardship Coordinators | |
| | | Phone: | 775-324-7667 | |
| | | Fax: | 775-324-2677 | |
| Email: | richie@nevadawilderness.org nora@nevadawilderness.org | | | |
| Organization Mission: | Friends of Nevada Wilderness is dedicated to preserving all qualified Nevada public lands as Wilderness, protecting all present and potential Wilderness from ongoing threats, educating the public about the values of and need for wilderness, and improving the management and restoration of wild lands. | | | |
| Has your organization received other grants from the Truckee River Fund? Yes <u>X</u> No <u> </u> (use additional page if necessary) | If yes, | | | |
| | Date awarded: | September 2014 | | |
| | Project title: | TRF #153- Mount Rose Noxious Weed Monitoring and Treatment #3 | | |
| | Amount of Award: | \$15,807 | | |
| | Date awarded: | August 2013 | | |
| | Project title: | TRF #130 Mount Rose Noxious Weed Monitoring and Treatment #2 | | |
| | Amount of Award: | \$10,896 | | |
| | Date awarded: | August 2012 | | |
| | Project title: | 3TRF #111 Mount Rose Noxious Weed Monitoring and Treatment #1 | | |
| Amount of Award: | \$10,896 | | | |

DESCRIPTION OF PROJECT UNDER CONSIDERATION

X D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.

NARRATIVE:

1. **Specific project goals and measurable outcomes:**

Goals: The goal of the Mount Rose Wilderness Noxious Weed Monitoring and Treatment Project is to protect the water quality of the Truckee River and its watershed. Eradicating noxious weeds in the Mount Rose Wilderness is critical due to its immediate proximity to the Truckee River. Noxious weeds out-compete native plants and as a result, they damage water quality, contribute to

Mount Rose Noxious Weed Monitoring and Treatment #4
Truckee River Fund 2016

soil erosion, and degrade plant and animal habitat. Removing noxious weeds will help retain and improve watershed health by allowing native plant communities to thrive without the competition from noxious weeds. Our continued work will restore ecological conditions to a more natural state. By focusing on identified noxious weed populations, continued work will help in mitigating the spread of weeds throughout the Truckee River watershed and result in a reduced density of existing locales.

Methods: Methods used to control weeds in the Wilderness will be direct treatment and continued monitoring. Friends of Nevada Wilderness staff will host volunteer weed pulling events in which we will use shovels and clippers to pull both musk thistle (*Carduus nutans*) and perennial pepperweed (*Lepidium latifolium*)—both are listed on the state noxious weed list and the Truckee Meadow's Dirty Dozen Noxious Weed list. Clipping seed heads after they have formed is crucial to reducing dense regrowth the following year. Mechanical methods are the most appropriate way to treat these weeds to reduce impacts on the watershed. We will also have a 10-week AmeriCorps Service Member leading our overall Mt. Rose Program, which includes this project. Our AmeriCorps Service Member will assist us in volunteer recruitment, noxious weed education, and project completion. Staff and volunteers will monitor identified areas to assess outcomes and continue to document change in known populations as identified in our 5-Year Noxious Weed Management Plan, available upon request. We work closely in partnership with Truckee Meadows Weed Coordinating Group. Lastly, if the course is available this year, staff and volunteers will attend the Weed Warrior Class offered by the Cooperative Extension of the University of Nevada.

Measurable outcomes: Friends of Nevada Wilderness staff and volunteers will monitor and treat approximately 75 acres of noxious weeds and host eight volunteer weed-pulling events. These projects will not only engage and educate volunteers in the treatment of noxious weeds, but will give citizens a chance to take part in the critical stewardship of their public lands. To date we have removed tens of thousands of invasive weeds resulting in a decrease in density of noxious weeds over the last seven years and want to continue the hard work necessary to reduce noxious weed populations. We will also expand our monitoring to locations identified by the Carson City Ranger District (RD) as possible noxious weed locales. We began working with the Carson RD on noxious weed treatment and monitoring in the Hunter Creek drainage in 2006, hosting 28 projects in the past nine years.

2. **Project location:**

The project is focused in the northern section of the Mount Rose Wilderness: an area 5,000 acres in size. The majority of the noxious weeds are located within Hunter Creek and Belli Front areas of the Wilderness. All of the identified noxious weed locales are within the Truckee River Watershed and are two to four miles from the Truckee River. Areas of concern are the helicopter loading points used by the Carson City RD to fight the Hunter Falls Fire of 2014, which we plan to monitor for any invasive weed developments.

3. **Project description.** Staff will lead volunteers to known locales of noxious weeds, removing them with shovels and clippers as necessary. Staff and volunteers will also scout new sites and monitor as needed. See pages 4 and 5 for photos and a detailed map.

4. **Permitting:**

We will be taking direction from our Carson RD contacts and as of now this project does not require any permits.

5. **Future phases:**

Musk thistle seeds can stay dormant in the soil for up to 15 years resulting in a need for continued management. We have been working on this project for nine years, and have seen good results, but populations still exist. We plan to continue our efforts to make a greater impact on these noxious weed locales. The Truckee River Fund has generously supported this effort in the past. In addition, our weed treatment efforts have been partially funded by the National Forest Foundation (NFF)—

Mount Rose Noxious Weed Monitoring and Treatment #4
Truckee River Fund 2016

one of our match sources. We anticipate receiving funding from the NFF again this year but funds are not yet committed.

6. **Principals involved:**

Six staff members from Friends of Nevada Wilderness: Nora Kaufmann and Richie Bednarski, Northern Nevada Stewardship Coordinators, Jake Kastner, GIS Mapping Technician, will manage GIS maps for this project, and our seasonal AmeriCorps Service Members. We will be working with two Forest Service Employees: Dan Morris, Recreation Officer and Maureen Easton, District Wildlife Biologist.

7. Number of **staff positions involved** in project: Fulltime...0 Part-time...6

8. **Volunteers involved:**

We plan to host 12 volunteer trips with an average of six volunteers per trip. Our outings are day trips and range from 4-8 hours. We use a variety of outreach methods to recruit volunteers such as tabling, flyer placement, and social media. In addition, we utilize websites such as www.volunteermatch.com and www.idealists.org to reach a broader volunteer base. Some of the partner groups that we work with to get on-the-ground work done are; Great Basin Institute; UNR clubs; the Great Old Broads for Wilderness, The Reno Hiking Group, and Keep Truckee Meadows Beautiful, One Truckee River, and the Truckee Meadows Weed Coordinating Group.

9. **Timeline:**

Outreach for individual volunteers and group partners will start immediately upon project approval. Logistical planning and early site visits will begin in early April. Depending upon the weather and growing season, monitoring and treatment will begin in early May, possibly going through July. Reporting will occur in late summer and fall.

10. **Success:**

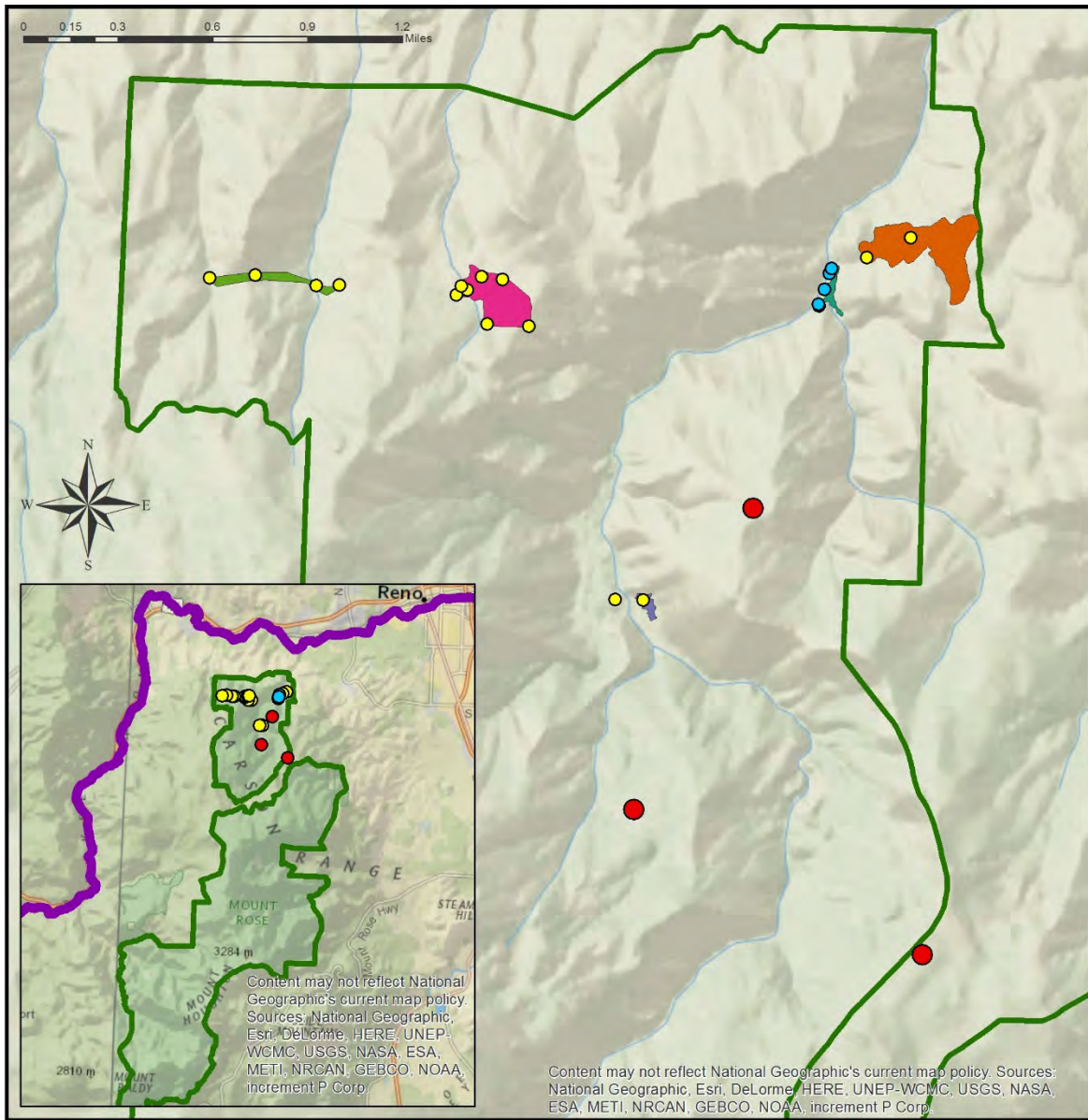
We will let the committee know of our success with written reports and with photographs. We also invite the committee to join us on any of our volunteer events to see progress firsthand. We will communicate our efforts through press releases, quarterly newsletters, and monthly E-news letters. Lastly, we update our accomplishments often through social media such as Twitter and Facebook. We also keep an organizational blog at <http://friendsofnwild.tumblr.com/> to share news with the general public.

11. **Grant Match**

| | | | | |
|---|---|------|----------------|---------|
| Match amount to be provided: \$14,640 | | | | |
| Match details: We have applied for two grants from The National Forest Foundation (NFF) and the National Wilderness Stewardship Alliance (NWSA) which we will use to match this grant. | Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections. | | | |
| | Match is: | | | |
| | <table border="1"> <tr> <td>Cash</td> <td>\$6,000</td> </tr> <tr> <td>In-kind</td> <td>Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. \$8,640</td> </tr> </table> | Cash | \$6,000 | In-kind |
| Cash | \$6,000 | | | |
| In-kind | Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual. \$8,640 | | | |
| Description of matching funds/in-kind donations: | For the cash portion of your match, is the funding already being held by the applicant for this project? Yes ___ No <u>X</u> Matching funds will be for transportation, volunteer supplies, tools, planning, outreach, labor, and training. In-kind matches will be made with volunteer hours. | | | |

Mount Rose Noxious Weed Monitoring and Treatment #4
Truckee River Fund 2016

Mt. Rose Wilderness Noxious Weed Monitoring and Treatment Project



- Noxious Weeds**
- Musk Thistle
 - Pepperweed
 - Medusa Head
 - Truckee River
- East Fork
 - East Slope
 - Above Waterfall
 - Belli Front East
 - Belli Front West
 - Mt. Rose Wilderness Boundary

Acres Affected:

| | |
|-------------------------|-------------------|
| Belli Front East ~ 18.0 | East Fork ~ 2.5 |
| Belli Front West ~ 6.4 | East Slope ~ 30.7 |
| Above Waterfall ~ 1.8 | |



Mount Rose Noxious Weed Monitoring and Treatment #4
Truckee River Fund 2016

3. Project Description: Photographs



Musk Thistle Belli Front East



Musk Thistle Belli Front West



Musk Thistle above Hunter Creek Falls – Before



Musk Thistle above Hunter Creek Falls – After



Perennial Pepperweed Hunter Creek East



Musk Thistle Hunter Creek East Fork

12. PROJECT BUDGET

| Budget Item Description | Truckee River Fund | Match Source | Match Amount | Total |
|--------------------------------|---------------------------|---------------------|---------------------|-----------------|
| Payroll Expenses | \$15,120 | NFF MAP | \$5,000 | \$20,120 |
| AmeriCorps Stipend | \$1,200 | | | \$1,200 |
| Volunteer Labor | | In-kind | \$8,640 | \$8,640 |
| Printing and Reproduction | \$500 | NFF MAP | \$200 | \$700 |
| Project Supplies | \$400 | NFF MAP | \$200 | \$600 |
| Training Expenses | \$610 | NWSA | \$300 | \$910 |
| Vehicle Expenses | \$302 | NFF MAP | \$300 | \$602 |
| Database/DeLorme | \$130 | | | \$130 |
| Subtotal | \$18,262 | | \$14,640 | \$32,902 |
| Overhead (at 15%) | \$2,740 | | | \$2,740 |
| TOTAL | \$21,002 | | \$14,640 | \$35,642 |

Budget Narrative

Payroll Expenses: This is an hourly rate that includes taxes, benefits, and unemployment. Our average rate is \$35.00/hr., i.e. \$35/hr x 216 hrs x 2 staff x 12 projects = \$15,120. This translates to 8 hours of on the ground work and 10 hours of prep, follow up, and volunteer recruitment per project, as well as community weed meetings.

AmeriCorps Stipend: This helps cover the cost of one of our AmeriCorps Service members for a portion of the field season.

Volunteer Labor: This is calculated at \$20.00/hr for 8 volunteer events with at least 6 people at each event for 6 hours. \$20/hr x 6 volunteers x 6 hrs x 12 projects = \$8,640

Printing and Reproduction: This will go towards printing flyers and brochures for advertising our events and volunteer recruitment. A portion of this will go towards our twice a year newsletter and to help recruit volunteers and share our weed pulling success.

Project Supplies: This portion will help cover the cost for first aid kits, seed head loppers, tool/supply maintenance, and volunteer appreciation, such as trail snacks, Gatorade, etc.

Training Expenses: The University of Nevada, Reno Cooperative Extensions will potentially be hosting a Weed Warrior Class. This is a two day intensive class focused on identification and management. It is \$50/person for staff/volunteers to attend. In addition, we will purchase new updated invasive weed materials for reference for staff/volunteers.

Vehicle Expenses: This portion will help us shuttle tools and volunteers to the trailhead and attend Weed Coordinating Meetings. At \$0.54/mile x 560 miles (12 trips and 4 meetings) = \$302.

Database/DeLorme Device: We have emergency satellite devices we take on each trip and this will cover the subscription cost for two months.

Match will be met from two projected grants, NFF MAP and NWSA, as well as volunteer labor. We have received this money in the past and expect to again for the 2016 season.



| | | | | |
|---|---|---|---------------|--|
| Organization Name: | City of Reno | | | |
| Type: | EIN#88-6000201 | Governmental entity? Yes | | |
| Address: | P.O. Box 1900, Reno NV 89505 | | | |
| Project Name: | Truckee River Cleanup Crew – Year 2 | | | |
| Amount requested: \$47,787 | Website: www.reno.gov | | | |
| This funding will be used to (complete this sentence with a max of 2 sentences): | Provide a dedicated crew to remove trash, debris, noxious weeds and overgrowth from the banks of Truckee River and direct tributaries within City of Reno. | | | |
| Key People: | Director: | Andy Bass, Director, Parks, Recreation and Community Services | | |
| | Board Chair: | Hillary Schieve, Mayor | | |
| | Project Contact: | Name: | Jeff Mann | |
| | | Position: | Parks Manager | |
| | | Phone: | 775-334-2270 | |
| | | Fax: | 775-334-2471 | |
| Email: | mannj@reno.gov | | | |
| Organization Mission: | Provide exceptional recreational experiences for the Reno Community through facilities, programs and events that focus on safety, wellness, social and cultural benefits, which are sustainable, and enhance the quality of life and economic benefits for all. | | | |
| Has your organization received other grants from the Truckee River Fund? Yes No (use additional page if necessary) | If yes, | | | |
| | Date awarded: | See Attached List | | |
| | Project title: | | | |
| | Amount of Award: | | | |
| | Date awarded: | | | |
| | Project title: | | | |
| | Amount of Award: | | | |
| | Date awarded: | | | |
| Project title: | | | | |
| Amount of Award: | | | | |

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- A. Projects that improve bank or channel stabilization and decrease erosion.
- B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.¹
- E. Other projects that meet the evaluation criteria.

¹ For proposals related to weed control/eradication, contact Tracy Turner at the Community Foundation of Western Nevada for additional criteria. tturner@nevadafund.org; 775-333-5499.



NARRATIVE REQUIREMENTS

Provide answers for all 11 sections below; use the numbers and topics (in **bold**) to label each section in your response. Your application is limited to 5 narrative pages, including the cover sheet. Your budget is page 6. **All projects are required to have measurable outcomes:**

1. **Specific project goals and measurable outcomes and how you will measure and report them.**
 - Goals:
 - i. Remove trash and debris from the banks of the Truckee River within Reno's city limits, focusing on public property along the Truckee River Path, including City, County and State property.
 - ii. Improve these areas so that our community members feel safe and comfortable when using the river areas.
 - Outcomes:
 - i. Results will be measured by number of bags of trash and debris, shopping carts, posts, appliances, furniture and other materials removed from the project area.
2. **Project location.** The project location will be the banks of the Truckee River within Reno's city limits, with specific emphasis along the Truckee River Path. The upper limit will be the White Fir subdivision; the lower limit will be just below Telegraph Road. Work will primarily be on public property (City, County and State) within Reno city limits, and may also include certain private properties with owner permission. These will primarily include adjacent business, railroad and owner association property.
3. **Project description.** Include site map and aerial photos if applicable/possible. Maps and photos must fit on 8-1/2" x 11" paper. See attached map.
4. **Grant priorities.** Explain how the proposed project advances the TRF's grant priorities (page 2 of the cover sheet); refer to the priorities by number in your narrative. This request supports Priority VI – Stewardship by funding a crew dedicated to remove trash, litter, illegal campsites and other refuse along the banks of the Truckee River and direct tributaries within Reno City limits, primarily upstream of the Glendale Treatment Plant.
5. **Permitting.** Provide a permitting schedule for your project along with your plan for getting the required permits. Be sure to include the cost of permitting as a line item in your budget. Permits are not required. In the event any site cleanup requires use of equipment below the mean high water line, we can proceed using the Carson-Truckee Water Conservancy's encroachment permit with prior notice.
6. If **future phases** of the project will be needed, identify anticipated sources of funding.
 - This is year 2 of a 3 year program, with increased funding provided by City of Reno in years 2 and 3 with the expectation that the program becomes permanent funded by the City, or through some other mechanism as proposed through the One Truckee River Working Group. The current TRF Grant (#157) expires June 30, 2016 for year 1.
 - For second year costs (July 2016 – June 2017), staff has submitted a budget request for the additional City costs for this grant period, increasing City share from 27% to 59%.
 - City Council will approve FY16/17 budget in May 2016; if the matching funds are not included in the adopted budget, then this grant request will be withdrawn.
7. **Principals involved** in leading or coordinating the project or activity.
 - Jeff Mann, Parks Manager, will be the project lead and will submit quarterly reports and reimbursement requests.



- Dave Barrett, Park Maintenance Supervisor and Pam Bedard, Horticulturist, supervise and coordinate the work crew.
8. Number of **staff positions involved** in project: Fulltime **4** Part-time **4** (“Fulltime” means 100% of their staff position will be dedicated to this project; “part-time” means only a portion of their staff position will be dedicated to this project)
 9. Number of **volunteers involved** in project and an estimated number of volunteer hours. None directly, however we do have Adopt A River groups doing cleanup projects along several sections of the river.
 10. **Time Line** of Project. List key dates and include project milestones. *Note:* Be realistic in your estimate of dates and milestones. List any factors that may cause a delay in implementing and/or completing the project.
 - Budget approval by City Council – May 25, 2016.
 - Start Date – July 1, 2016.
 - End Date – June 30, 2017.
 11. **Success.** Tell the committee how we will know you succeeded in what you proposed to do. Project success will be measured by the amount of debris (such as bags of trash, counts of other debris) removed from the project location, as well as the number of campsites located and removed. Success can also be determined by a reduction in calls for service to Reno Direct regarding trash & debris along the river.
 12. **Grant match.** All applicants must provide a match of at least 25 percent for dollars requested. The match may be with funding and/or in-kind services. For larger grant requests, priority will be given to projects that significantly leverage the grant with funding from other sources. Complete the Grant Match section.
 13. **Project budget** (see Sample Budget Template on page 5 of this RFP). Provide detail on line-item expenditures and show which costs are to be paid for by the Truckee River Fund grant, which expenses will be paid for by other sources, and which will be paid for with in-kind services. Other sources of funding should be provided.
 - *Note 1:* Project budget must be a stand-alone, one-page attachment.
 - *Note 2:* Indirect/overhead expenses cannot exceed 25 percent.
 Grants from the Truckee River Fund are paid on a reimbursable basis for actual expenditures only. Craft your budget in such a way that requests for reimbursement correspond to the original budget.



Grant Match

| | | | | | |
|---|--|------|-----------------|---------|-----------------|
| Match amount to be provided: | \$68,969 | | | | |
| Match details: | <p>Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections.</p> <p>Match is:</p> <table border="1"> <tr> <td>Cash</td> <td>\$46,187</td> </tr> <tr> <td>In-kind</td> <td>\$22,782</td> </tr> </table> <p>Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual.</p> <p>For the cash portion of your match, is the funding already being held by the applicant for this project? No; budget approval is May 25, 2016.</p> | Cash | \$46,187 | In-kind | \$22,782 |
| Cash | \$46,187 | | | | |
| In-kind | \$22,782 | | | | |
| Description of matching funds/in-kind donations: | <p>1. Use of existing city vehicles and equipment at the internal fleet rate per hour, included in department operating budget.</p> <p>2. Staff time for existing city staff directly supporting the program. Includes time spent by maintenance doing debris removal along the river adjacent to city parks, and staff time for supervision and administration estimated at 6% of total project cost. Permanent staff included in department operating budget; work crew funds part of FY16/17 budget request.</p> | | | | |

ATTACHMENTS

You may be asked to submit the following attachments via email. If you are asked to submit the attachments, clearly label each file with your organization’s name. If you do not have the ability to email them, place each of the items listed below on a separate page and submit just one copy.

Nonprofits submit:

- Last audited financial statements if your organization has been audited
- List of Board of Directors
- Copy of agency’s IRS 501(c)(3) Tax Determination Letter
- Copy of the agency’s most recent IRS Form 990

Governmental entities submit:

- Departmental budget in lieu of audited financial statements



Project Budget

| Position | No of Pos | Hours Per Wk | Total | TRF \$\$ | CITY \$\$ |
|--|----------------------|-------------------------|--------------|-----------------|------------------|
| Existing Maintenance Staff | 1 | 4 | \$8,327 | \$0 | \$8,327 |
| Crew Leader | 1 | 30 | \$38,960 | \$19,480 | \$19,480 |
| Work Crew | 3 | 30 | \$53,413 | \$26,707 | 26,706 |
| Supplies | | | \$1,600 | \$1,600 | \$0 |
| Vehicles & Equipment Includes dedicated crew cab pickup, use of 3 yard dump truck and trash compactor; power equipment includes weeders, chainsaws and blowers. | | 30 | \$8,000 | \$0 | \$8,000 |
| Admin/Supervision | 1 | 1.75 | \$6,455 | \$0 | \$6,455 |
| Total | | | \$116,755 | \$47,787 41% | \$68,969 59% |



**FY15/16 Budget
Reno Park Maintenance Division**

Budget by Account
Through 02/04/16

| Account | Account Description | Adopted Budget | YTD Transactions | Budget - YTD Transactions | % used/ Rec'd | Prior Year Total |
|---------------------------------------|---------------------------------|-------------------|---------------------|------------------------------|---------------------|------------------|
| Fund 00100 - GENERAL FUND | | | | | | |
| <i>Salaries & Wages</i> | | | | | | |
| 7102-0000 | Regular salaries | 1,803,532.00 | 971,077.35 | 832,454.65 | 54 | 1,697,791.80 |
| 7104-0000 | Temporary salaries | 126,820.00 | 79,162.36 | 55,657.64 | 59 | 89,863.37 |
| 7106-0000 | Overtime | 2,854.00 | 918.97 | 1,935.03 | 32 | 4,032.27 |
| 7106-1000 | Overtime-FLSA | .00 | 2.38 | (2.38) | | 12.06 |
| 7108-0000 | Severance Pay | .00 | .00 | .00 | | 62,902.90 |
| 7199-2000 | Budget changes-salaries | .00 | .00 | .00 | | .00 |
| <i>Salaries & Wages Totals</i> | | \$1,933,206.00 | \$1,051,161.06 | \$890,044.94 | 54% | \$1,854,602.40 |
| <i>Employee Benefits</i> | | | | | | |
| 7202-0000 | Retirement | 505,093.00 | 268,180.80 | 236,912.20 | 53 | 435,743.84 |
| 7204-0000 | Group insurance | 282,352.00 | 145,535.72 | 136,816.28 | 52 | 237,008.63 |
| 7205-0000 | Life insurance | 10,312.00 | 3,172.45 | 7,139.55 | 31 | 5,497.24 |
| 7206-0000 | Workers comp premiums | 101,227.00 | 59,049.06 | 42,177.94 | 58 | 96,407.00 |
| 7210-0000 | Employer medicare contributions | 27,844.00 | 14,888.32 | 12,955.68 | 53 | 25,891.72 |
| 7212-0000 | Long Term Disability | 7,039.00 | 2,296.18 | 4,742.82 | 33 | 5,806.84 |
| 7214-0000 | Deferred Compensation | 89,672.00 | 40,274.39 | 49,397.61 | 45 | 48,689.52 |
| 7299-0000 | Employee benefits-Other | 1,762.00 | 1,169.14 | 592.86 | 66 | 2,162.04 |
| 7299-3000 | Budget changes-benefits | .00 | .00 | .00 | +++ | .00 |
| <i>Employee Benefits Totals</i> | | \$1,025,301.00 | \$534,566.06 | \$490,734.94 | 52% | \$857,206.83 |
| <i>Services & Supplies</i> | | | | | | |
| 7300-0000 | Supplies | 142,859.00 | 70,910.68 | 71,948.32 | 50 | 182,077.69 |
| 7301-0000 | Supplies-to be tracked | 5,000.00 | .00 | 5,000.00 | 0 | .00 |
| 7400-1000 | Outside services-personnel | 4,250.00 | .00 | 4,250.00 | 0 | .00 |
| 7400-2000 | Outside services-other | 230,207.00 | 122,184.68 | 108,022.32 | 53 | 204,057.02 |
| 7410-0000 | Communication | 3,750.00 | 1,806.45 | 1,943.55 | 48 | 2,844.03 |
| 7420-0000 | Rentals | 18,858.00 | 6,027.09 | 12,830.91 | 32 | 11,836.00 |
| 7420-1000 | Motor vehicle fleet charges | 326,459.00 | 190,434.44 | 136,024.56 | 58 | 310,913.00 |
| 7484-0000 | Employee training/travel | 4,710.00 | 2,165.99 | 2,544.01 | 46 | 1,248.72 |
| 7499-0000 | Miscellaneous operating expense | 14,399.00 | 7,401.98 | 6,997.02 | 51 | 7,318.52 |
| <i>Services & Supplies Totals</i> | | \$750,492.00 | \$400,931.31 | \$349,560.69 | 53% | \$723,467.73 |
| <i>Capital Outlay</i> | | | | | | |
| 7650-0000 | Capital projects | .00 | .00 | .00 | | .00 |
| <i>Capital Outlay Totals</i> | | \$0.00 | \$0.00 | \$0.00 | | \$0.00 |
| EXPENSE TOTALS | | \$3,708,999.00 | \$1,986,658.43 | \$1,730,340.57 | 53% | \$3,435,276.96 |



Truckee River Fund

City of Reno Funded Projects

| | | |
|--------|---|--------------------|
| Dec-05 | Chalk Creek TDS Loading to Truckee River Study | \$25,000 |
| Jun-06 | Lower Steamboat Creek Restoration | \$86,000 |
| Jun-06 | Urban Storm Water Quality Improvements | \$66,000 |
| Nov-06 | Restoration of Riparian Vegetation in a Channel at Sapphire Ridge in Chalk Creek Watershed | \$18,375 |
| Feb-07 | Chalk Creek Watershed Management for Water Quality to Minimize Non-Point Source Pollution from Reaching the Truckee River | \$250,000 |
| Jul-08 | Truckee River Watershed Map Web Tool | \$80,000 |
| Aug-08 | Truckee River Bank Stabilization at Oxbow Park | \$207,750 |
| Nov-08 | Chalk Creek Watershed TDS/Sulfate Reducing Wetland Pilot Project | \$163,000 |
| Nov-08 | McKinley Arts & Cultural Center LID Demonstration Project and Installation Training | \$115,500 |
| Dec-09 | Livestock Events Center Drainage Treatment System | \$75,000 |
| Mar-11 | Livestock Event Center Treatment System - Phase 2 | \$97,500 |
| Mar-13 | Hazard Tree Removal at Oxbow Park | \$32,250 |
| Mar-13 | Truckee River Path/Bank Stabilization | \$30,615 |
| Feb-15 | Truckee River Cleanup Crew | \$104,235 |
| Aug-15 | Virginia Lake Water Quality Improvements | \$100,000 |
| | Total | \$1,451,225 |



**COMMUNITY
FOUNDATION**
of Western Nevada

Cover Sheet

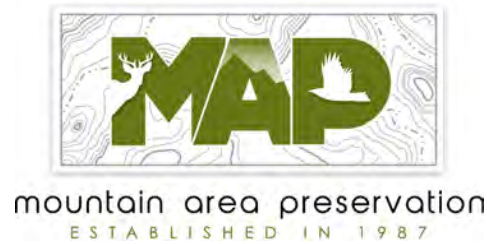
| | | | | |
|---|---|------------------------------------|--------------------|--|
| Organization Name: | Mountain Area Preservation Foundation | | | |
| Type: | 501(c)(3) EIN# 68-0148964 | Governmental entity? Y/N NO | | |
| Address: | P.O. Box 25 Truckee, CA 96160 | | | |
| Project Name: | Trout Creek Pocket Park & Restoration Initiative | | | |
| Amount requested: \$25,000 | Website: www.MountainAreaPreservation.org | | | |
| This funding will be used to (complete this sentence with a max of 2 sentences): | support a portion of the Trout Creek restoration initiative, specifically to install pervious pavers for stormwater improvements at the project site. | | | |
| Key People: | Director: | Alexis Ollar, MS & GISP | | |
| | Board Chair: | Stefanie Olivieri, Board President | | |
| | Project Contact: | Name: | Alexis Ollar | |
| | | Position: | Executive Director | |
| | | Phone: | 530-582-6751 | |
| | | Fax: | 530-214-3198 | |
| Email: | | Alexis@mapf.org | | |
| Organization Mission: | Our mission is to preserve the Truckee region's community character and the natural environment for present and future generations. | | | |
| Has your organization received other grants from the Truckee River Fund? Yes No (use additional page if necessary) | If yes, | | | |
| | Date awarded: | | | |
| | Project title: | | | |
| | Amount of Award: | | | |
| | Date awarded: | | | |
| | Project title: | | | |
| | Amount of Award: | | | |
| | Date awarded: | | | |
| Project title: | | | | |
| Amount of Award: | | | | |

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- A. Projects that improve bank or channel stabilization and decrease erosion.
- B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.³
- E. Other projects that meet the evaluation criteria.

³ For proposals related to weed control/eradication, contact Tracy Turner at the Community Foundation of Western Nevada for additional criteria. turner@nevadafund.org; 775-333-5499.



- 1.) Project Goals & Measurable Outcomes:** The purpose of the Trout Creek Pocket Park is to revitalize and enhance Historic Downtown Truckee by restoring a portion of the Trout Creek ecosystem and building a sustainable site pocket park and green space for the community and tourists to enjoy. The Trout Creek Pocket Park was targeted for improvements in the Town of Truckee's 1997 Downtown Specific Plan. Mountain Area Preservation (MAP) spearheaded the effort in 2007 to rehabilitate the park and raise awareness of the value of Trout Creek as an urban natural resource. MAP finalized all environmental site assessment, planning and permitting from 2011-2013.
- **Restore Trout Creek Pocket Park** by utilizing green building techniques and following the guidelines of the Sustainable SITES Initiative (sustainablesites.org), currently the closest LEED-type checklist for site, park and recreation improvements.
 - The utilization of Sustainable SITES Initiative specific design features for the park will create long-term sustainability measures, allowing the site to operate with minimal maintenance needs for the Town of Truckee. Applying the SITES Initiative will reduce water demands, runoff, enhance wildlife habitat, reduce energy consumption, improve air quality and human health through the connection to green spaces. This goal will be achieved with the following site features: two solar lights, a town waste and recycling container, mutt mitt dispenser (dog waste disposal), natural boulder seating, a regional trail connection to the Trout Creek Trail & Truckee Legacy Trail and the utilization of low impact development (LID) techniques during the restoration and construction phase this year. Once the site is fully restored and the park is constructed, Mountain Area Preservation will apply to register the park as a certified Sustainable SITES Initiative Project.
 - **Improve the Water Quality of Trout Creek & the Truckee River Watershed** through the management of erosion, sediment loads, run off and creek stabilization.
 - The project will implement pervious pavers, storm water drainages, a storm water infiltration system, removal of noxious weeds along the creek banks, planting of native and drought tolerant plants, installation of a creek bank berm, as well as a curb and gutter system to manage non-point source pollution from entering Trout Creek, a tributary of the Truckee River Watershed. In collaboration with the Truckee River Watershed Council, water quality samples will be taken before the initiation of the project and after on an annual basis to monitor and track water quality parameters and improvements for Trout Creek.
 - **Provide Educational Opportunities for Youth and Adults** alike regarding the Trout Creek Ecosystem.
 - The park will install an interpretive kiosk, creating an outdoor classroom for visitors and local youth groups, highlighting the Sustainable SITES Initiative, wise water use and the flora and fauna of Trout Creek. Additionally the Truckee school system coordinates a walking tour of Historic Downtown Truckee each year and the park site will be built into

the school system's 3rd grade curriculum, helping to raise awareness about the Trout Creek ecosystem and restoration components at the park site. MAP will engage with local teachers and youth groups to quantify park use each year and discuss how the park site was utilized as an outdoor classroom.

- **Increase Recreation and Alternative Transportation Opportunities** through the construction of a trailhead that links community trail systems with downtown.
 - The Trout Creek Pocket Park Interpretive Kiosk will also include a regional trail map and future trail connectors for the Trout Creek Trail and Truckee Legacy Trail. The Town of Truckee will implement the trail connectors in the next 5 years as outlined in the 2025 Trails & Bikeways Master Plan.
- **Increase Tourism and Boost the Local Economy** by revitalizing an underused area of Truckee's Historic Downtown with an interactive community park that features a public art display and reconnects visitors to the natural environment.
 - The park has two unique features to promote art and culture, a stationary art bike rack and an art sleeve installed in the ground for rotating public art. An art bike rack has been selected for the site and MAP will work with the Town and our local artist community to create a process to approve public art submissions for installation at the pocket park site.

2.) **Project Location:** The project is located on the corner of Jibboom and Bridge Streets on the northeast portion of Truckee's Historic Downtown area. The property is part of a roadway easement owned by the Town of Truckee. The site has served primarily as snow storage and parking along the creek bank. The project site has excellent southern exposure and Trout Creek runs north to south through the property's easterly side. The creek has seasonal flow and well-established riparian vegetation, mostly willows and cottonwoods, along the 2-4 ft. banks. There is erosion along the creek banks, with no infrastructure or BMPs in place to prevent non-point source pollution and debris from entering the creek channel. Sagebrush and noxious weeds cover the area east of Trout Creek with barren soil covering the west side. The edges of the site that are currently used for parking are either impermeable pavement or compacted soil covered with sand and snow. Drainage from Bridge Street, Jibboom Street and the surrounding neighborhood impact the creek, its water quality and the greater Truckee River Watershed.

3.) **Project Description:** The purpose of the Trout Creek Pocket Park Restoration Project is to revitalize and enhance this long forgotten park in Truckee's Historic Downtown while protecting Truckee's natural resources, specifically Trout Creek, an important tributary of the Truckee River. In the process, we hope to heighten awareness about the importance of protecting our water quality, wise water use and the use of sustainable building practices, educate youth, adults and visitors alike about the flora and fauna of Trout Creek, invigorate our downtown with a place to meet, relax or hold events and create a hub for alternative transportation as many trails will begin and terminate at the park's location. MAP started working on the project in 2007-2008 by securing initial grant funds of \$93,500 for an environmental site assessment, design, planning and permitting through the Sierra Nevada Conservancy's Proposition 84 Grant. At the close of 2013, MAP finalized all of the CEQA site assessments, planning and permitting tasks for the project and from 2014 to present, MAP has been working to secure grants, donations, and in-kind services in order to bring the project to fruition in the summer of 2016.

Trout Creek Pocket Park
Jibboom & Bridge Street Intersection ~ Historic Downtown Truckee, CA



4.) Grant Priorities:

I. Watershed Improvements: The Trout Creek Pocket Park's restoration initiatives will help to reduce erosion and sediment loads from entering Trout Creek and the Truckee River Watershed. The project will remove noxious weeds along the bank, plant native and drought tolerant plant species, which will help manage erosion and increase bank stabilization along the creek's edge. Additionally the project will construct temporary and permanent BMPs to protect the creek bed, vegetation protection, drip line trenches and berm installation along the creek banks for floodplain protection.

II. Local Stormwater Improvement: Currently the project site has no infrastructure to mitigate stormwater runoff from entering the creek and the greater Truckee River Watershed. The project will implement two stormwater drainages, inlets and a water infiltration system to filter the water before it enters back into the creek channel. Pervious pavers will be installed in the inner area of the pocket park site, further helping to filter snowmelt and runoff before entering Trout Creek. Civil improvements such as a concrete curb, gutter and standard sidewalk pavers will additionally mitigate stormwater and non-point source pollution at the project site.

III. Re-Forestation and Re-Vegetation Projects: Due to the urbanization surrounding Trout Creek, there is very little healthy or native vegetation along the creek banks. The restoration efforts for the project site include the removal of noxious weeds along the creek bank and re-vegetation of the area with native and drought tolerant plants to help with soil stabilization and erosion.

Mountain Area Preservation

*Our mission is to preserve the Truckee region's community
Character & natural environment for present and future generations.*

IV. Support Rehabilitation of Local Tributary Creeks and Drainage Courses: Trout Creek, a tributary of the Truckee River Watershed is undergoing restoration at the future park site and further south down the lower creek channel. The Town of Truckee has been working on a multi-year and multi-phased restoration project to re-channelize Trout Creek near the Union Pacific Railroad. Legacies of misuse and poor land use planning have heavily impacted the creek tributary.

V. Stewardship and Environmental Awareness: The interpretive kiosk at the Trout Creek Pocket Park will educate youth and adults about the restoration efforts for Trout Creek, wise water use, flora & fauna and the Sustainable SITES Initiative. Additionally a Native American Washoe Tribe grinding stone will be relocated to the park site with an interpretive plaque stating its traditional uses for the Washoe.

VI. Meet Multiple Objectives: The Trout Creek Pocket Park and restoration initiative meets multiple objectives, specifically addressing stormwater run-off, improving water quality, reducing erosion, re-vegetating a heavily disturbed area due to the urbanization of downtown Truckee, utilizing sustainable building techniques, educating the community on environmental stewardship and providing a green space to reflect in an otherwise urban setting.

VII. Leverage Stakeholder Assets and Participation: The Trout Creek Pocket Park has leveraged support from the State of California through our initial grant request to the Sierra Nevada Conservancy for Proposition 84 funding to address local drinking water and stormwater improvements. The Town of Truckee awarded MAP in 2015 with \$50,000 for restoration and construction funding. Additional grant funding has been awarded to MAP to specifically address water quality, environmental stewardship and the restoration of Trout Creek by the Martis Fund, Tahoe-Truckee Community Foundation, Tahoe Mountain Resorts Foundation and the Truckee Donner Public Utilities District.

5.) **Permitting:** The Trout Creek Pocket Park received authorization for an ‘Encroachment Permit’ by the Town of Truckee in December of 2013 when the final plans for the project were approved by the Planning & Engineering Division, Truckee Town Council and Planning Commission (cost of the encroachment permit is listed in 2016 project budget).

6.) **Future Phases:** The Town of Truckee will add two trail connectors (Trout Creek Trail & Truckee Legacy Trail) in 5 years under the 2025 Trails & Bikeways Master Plan. This will add Class I bike trails to the project site. The implementation and timing for these trail connectors to the Trout Creek project site is unknown and outside of the scope of the project for MAP. Additionally, the Town of Truckee will continue the restoration of lower Trout Creek, which is being funded through state and federal restoration grants.

7.) **Principals Involved:** Mountain Area Preservation is the lead organization implementing the Trout Creek Pocket Park and Restoration Initiative in collaboration with the Town of Truckee, Planning & Engineering Division. Alexis Ollar, Executive Director of MAP has been the main contact working with the Town of Truckee and our hired consultants to design, plan and permit the project. Laura Mello from LJM Design Group has been retained as the landscape architect, along with Bill Quesnel of Acumen Engineering for site assessment, engineering and project management during the restoration and construction phase.

8.) **Staff Positions Involved:** Mountain Area Preservation has two employees, an Executive Director & a Development Director who are working on the Trout Creek Pocket Park project on a part-time basis. Bill Quesnel of Acumen Engineering and Laura Mello of LMJ Design Group are hired contractually to work on the project.

9.) **Volunteers Involved:** During the restoration and construction phase for the project we anticipate having approximately 10-15 key volunteers to help with temporary and permanent BMPs, re-vegetation and landscaping tasks. The Truckee Donner Public Utilities District (TDPUD), a sponsor of one solar light fixture and some of the native landscaping will also provide volunteers to help with the installation of the solar light fixture and landscaping tasks. We anticipate approximately 100-150 volunteer hours will be invested into the project by MAP, the TDPUD, the Truckee River Watershed Council and the Contractors Association of Truckee-Tahoe.

10.) **Timeline:**

| PROJECT TIMELINE & DELIVERABLES | TIMELINE |
|--|------------------------------|
| I. Project commencement, environmental site assessment, planning, design and engineering review with Town of Truckee | January 2012 - November 2013 |
| II. Final design submittal for approval and permitting | December 2013 |
| III. Fundraising Campaign & Grant Applications for Project Funding | January 2014 - May 2016 |
| IV. Formal Bid Process & Contractor Assigned | February - March 2016 |
| V. Pre-Construction Meeting with Town of Truckee | April 2016 |
| VI. Break Ground on Trout Creek Restoration & Pocket Park | May 2016 |
| VII. Project Completion and Park Opening | July 2016 |

11.) **Success:** MAP will be successful in our efforts through the direct benefits the Trout Creek Pocket Park will bring to the environment and community. The water quality of Trout Creek and the Truckee River will be improved through the direct management of erosion and run off that currently makes its way into the creek by way of sediment collecting on Bridge Street, ending up in the Truckee River. By implementing the civil engineering plans for a curb and gutter system, stormwater drainage improvements, as well as temporary and permanent BMP installations, including sand-oil receptors, drywells and the re-vegetation of disturbed areas, the Trout Creek ecosystem will be enhanced and restored. Through the final construction phase, there will be increased opportunity to coordinate with the Town to have these improvements mesh seamlessly with their plans for restoring lower Trout Creek. The park site will also aid in improving the quality of life for Truckee residents and visitors, creating a green open space area for people to enjoy, while learning about the flora and fauna of the Trout Creek ecosystem. We believe the Trout Creek Pocket Park will be a catalyst for more small, green space settings in our community, revitalizing depressed and environmentally harmful sites into restored, beautiful gathering spaces.

12.) **Grant Match:** MAP has secured grant funding for the park site and restoration initiative from the following grant institutions: Tahoe-Truckee Community Foundation, The Town of Truckee, The Martis Fund, Tahoe Mountain Resorts Foundation and the Truckee Donner Public Utilities District. MAP has also started a donor campaign creating funding support through the creation of the Friends of Trout Creek, where MAP members can provide support for the project (<http://www.mapf.org/friends-of-trout-creek-pocket-park/>). We are currently applying for additional funds from the Truckee-Tahoe Airport district, Truckee-Tahoe Lumber Company, the Teichert Foundation and the Strong Foundation.

13.) **Project Budget:** (see attachment on page 6).

**Trout Creek Pocket Park
Project Budget**

| Budget Item | Project Cost | TRF | Secured Grant Funding | Pending Funding Requests |
|--|--------------|----------|----------------------------------|--------------------------|
| Town of Truckee Encroachment Permit | \$1,590.00 | | | |
| Mobilization & Temporary Erosion Control | \$3,000 | | Martis Fund | Teichert Foundation |
| Clearing & Grubbing | \$2,500 | | Martis Fund | |
| Concrete Paver Sidewalk | \$46,400 | | Town of Truckee | |
| Pervious Pavers | \$21,000 | \$21,000 | | |
| Concrete Curb & Gutter | \$4,100 | | Martis Fund | |
| Concrete Curb | \$6,000 | | Martis Fund | |
| Flush Curb | \$10,600 | | Martis Fund | |
| Concrete Paver Band | \$6,000 | | Martis Fund | |
| Cast Iron Accessible Ramp (3) | \$7,500 | | | Truckee-Tahoe Airport |
| 4"AC/12" AB Asphalt Paving | \$19,400 | | | Truckee-Tahoe Airport |
| Trash Can | | In Kind | Town of Truckee (\$1,000) | |
| Trash Can Footing | \$300 | | | Truckee-Tahoe Airport |
| Art Bike Rack | \$5,000 | | | Truckee-Tahoe Airport |
| Bike Rack Footing (2) | \$1,400 | | | Truckee-Tahoe Lumber Co. |
| Free Standing Bench (4) | \$10,000 | | | Truckee-Tahoe Airport |
| Game Tables (2) | \$7,000 | | | Truckee-Tahoe Airport |
| Parking Meter | | In Kind | Town of Truckee (\$1,500) | |
| Parking Meter & Signage Footings (3) | \$900 | | Martis Fund | |
| Solar Lights (2) | \$20,000 | | Truckee Donner PUD & Martis Fund | |
| Interpretive Kiosk & Sign | \$10,000 | | Tahoe-Truckee Community Found. | |
| Art Sleeve | \$2,500 | | | Truckee-Tahoe Lumber Co. |
| Set Washoe Grinding Rock | | In Kind | Truckee Donner PUD (\$2,500) | |
| Grinding Stone Plaque | \$750 | | | Truckee-Tahoe Airport |
| Mutt Mitt Dispenser (dog waste clean up) | \$215 | | Truckee-Tahoe Sanitation Agency | |
| Drop Inlet (2) | \$6,000 | | Martis Fund | |
| HDPE 12" Storm Drain | \$2,090 | | Martis Fund | |
| Storm Water Infiltration | \$3,120 | | Martis Fund | |
| Remove Existing Utility Pole | | In Kind | Truckee Donner PUD (\$500) | |

Grant application to the *Truckee River Fund*
from the Truckee River Watershed Council

Johnson Canyon Westside Restoration - Construction Implementation

Cover Sheet

| | | | | |
|---|---|-------------------------------------|--------------------|--|
| Organization Name: | Truckee River Watershed Council (TRWC) | | | |
| Type: | 501(c)(3) EIN#91-1818748 | Governmental entity? No | | |
| Address: | P.O. Box 8568, Truckee, CA 96162 | | | |
| Project Name: | Johnson Canyon Westside Restoration-Construction Implementation | | | |
| Amount requested: \$67,000 | Website: www.truckeeriverwc.org | | | |
| This funding will be used to (complete this sentence with a max of 2 sentences): | Improve bank & channel stabilization, improve water quality and habitat in Johnson Canyon (a tributary to Donner Lake), and decrease sedimentation (an EPA Listed pollutant) to Donner Lake and the Truckee River | | | |
| Key People: | Director: | Lisa Wallace | | |
| | Board Chair: | Jake Hudson | | |
| | Project Contact: | Name: | Lisa Wallace | |
| | | Position: | Executive Director | |
| | | Phone: | 530-550-8760 x 4 | |
| | | Fax: | | |
| Email: | | lwallace@truckeeriverwc.org | | |
| Organization Mission: | We bring the community together for the Truckee to restore, protect, and enhance the Truckee River watershed. | | | |
| Has your organization received other grants from the Truckee River Fund? Yes X No (use additional page if necessary) | If yes, | | | |
| | Date awarded: | October 2015 | | |
| | Project title: | Johnson Canyon Westside Restoration | | |
| | Amount of Award | \$25,000 | | |
| | Date awarded: | September 2014 | | |
| | Project title: | Donner Lake Basin Assessment | | |
| | Amount of Award | \$50,000 | | |
| Please see Attachment A for a full list of awarded grants | | | | |

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- A. Projects that improve bank or channel stabilization and decrease erosion.
- B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that is adverse to water supply.
- E. Other projects that meet the evaluation criteria.

Johnson Canyon Westside Restoration - Construction Implementation

1. Project Goals and Measurable Outcomes and how you will measure and report them.

The goal of the Johnson Canyon Westside Restoration project is to continue our work to improve bank and channel stabilization, improve water quality and habitat in Johnson Canyon, and decrease sedimentation reaching Donner Lake and the Truckee River. Donner Lake is an important water supply for Reno/Sparks via the Truckee Meadows Water Authority. The Truckee River watershed is listed as a Clean Water Act impaired watershed by the U.S. EPA, with sedimentation as the pollutant.

Gregory Creek runs through Johnson Canyon and is a major tributary to Donner Lake. The watershed is steep, and is underlain by fine volcanic soils that are highly erosive. Past land uses including heavy logging and transportation impacts have led to a poorly constructed road network. In rainstorms this combination of soils and road network yields tons of sediment erosion into Donner Lake.

TRWC completed a watershed assessment in 2010 that outlines the causes of degradation and recommends restoration and management priorities. The first set of high priority work was completed in 2014. Those projects restored natural drainage patterns, completed revegetation, decommissioned an old erosive road and old erosive trail, and created a new trail segment. The results are significantly decreased sedimentation, and improved wildlife habitat and recreation.

The Johnson Canyon Westside Restoration – Construction Implementation proposes to complete construction on the next set of high priority projects. Specific outcomes will include restoring key sites along and adjacent to roads to reduce or eliminate erosion sources, and monitoring to assess the effectiveness of the restoration in reducing sediment delivered to Donner Lake from Gregory Creek.

Measurable outcomes of the project include:

- Address erosion issues along 1.5 miles of road;
- 500 feet of riparian habitat and instream habitat improved;
- Annual load reduction of approximately 100 tons;
- 50 volunteers on Truckee River Day.

2. Project location. Johnson Canyon is located within the California portion of the Truckee River watershed on the north side of Donner Lake. Figure 1 shows Johnson Canyon and the proposed project locations.

3. Project description. The watershed assessment describes the geomorphic and hydrologic processes in the watershed and how *human actions* have interrupted these functions. From that scientific and technical basis, the assessment identified areas of erosion and impacted function within the watershed. Preliminary restoration actions and project concepts were derived from the assessment, including benefits and gains, impacts to the drainage network, sediment production, relative cost, and project sequencing..

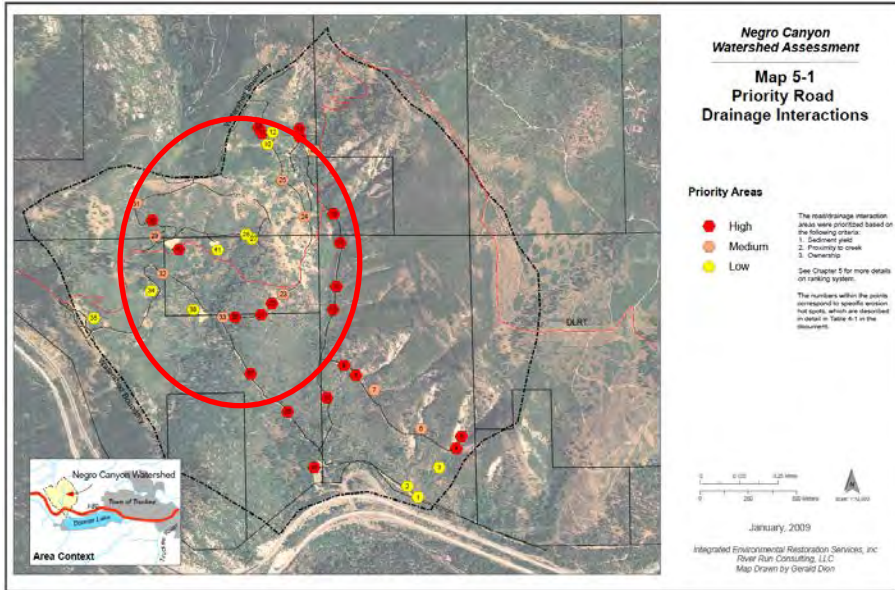
The road network is the single largest erosion trigger for sediment yield and hydrologic modification. Within the western portion of the watershed, the assessment identifies over a

Grant application to the *Truckee River Fund*
from the Truckee River Watershed Council

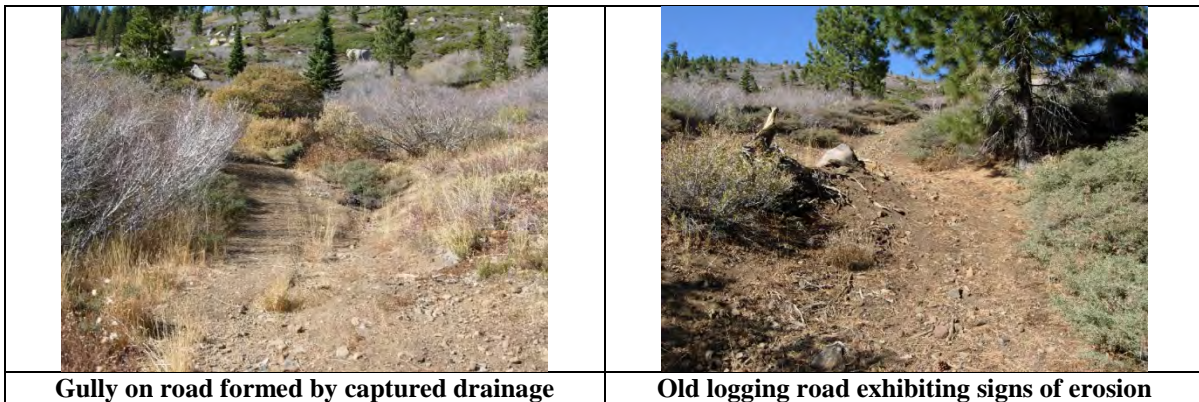
Johnson Canyon Westside Restoration - Construction Implementation

dozen high priority sites. These sites are located on property owned by the Truckee Donner Land Trust (TDLT) and US Forest Service (USFS). TRWC is partnering with these organizations to complete the restoration (see letters of support).

Figure 1. Johnson Canyon location and project map.



Implementation construction will consist of restoring natural hydrologic patterns to reduce erosion, revegetating bare areas, and restoring slope angles. Treatments will include removing fill from existing drainage crossings, reconnecting natural drainage patterns across the hillside, re-contouring old roads using side cast fill as available, directly treating areas of eroding fill using native rock, and revegetating all disturbed areas. Construction is partially funded by a grant from National Forest Foundation.



Grant application to the *Truckee River Fund*
from the Truckee River Watershed Council

Johnson Canyon Westside Restoration - Construction Implementation

4. **Grant Priorities.** This project addresses the following grant priorities:
 - **Watershed Improvements:** The Truckee River watershed is listed as 303d impaired for sedimentation. This project will reduce sedimentation by eliminating erosion sources in Johnson Canyon.
 - **Leverage Stakeholder Assets and Participation.** The TDLT, USFS Tahoe Donner Association are project partners and will participate in all stages of project implementation. The National Forest Foundation will provide matching funds for this project.
5. **Permitting.** TRWC and our partners will secure all necessary permits for the project and complete State of California Environmental Quality Act (CEQA) compliance between December 2016 and June 2017. Please note the NEPA is already completed. We anticipate securing permits from the California Lahontan Regional Water Quality Control Board (401 and NPDES), U.S. Army Corps of Engineers (Nationwide), and Nevada County, California (Grading permit).
6. **Future Phases.** Future phases include post-project monitoring. The goal of this project is to complete all work identified by the Fact-checking Assessment. However, in the unlikely event we identify additional projects beyond the scope of this project, we will seek additional funds to complete the new work. Possible future funding sources include the Bella Vista Foundation, the Tahoe Truckee Community Foundation, and the State of California.
7. **Principals involved.** Project Leads:
 - Erin Casey, Director of Land Use Compatibility, TRWC
 - Lisa Wallace, Executive Director, TRWC
8. **Staff positions involved.** The project will have significant involvement from our partners the TDLT and USFS along with adjacent property owners Tahoe Donner Association. No full time staff positions are associated with this project. Part-time staff positions are:
 - Erin Casey, Director of Land Use Compatibility, TRWC
 - Lisa Wallace, Executive Director, TRWC
9. **Volunteers involved.** This project will be featured during Truckee River Day.. We anticipate 50 volunteers will work 6 hours on each of the work days. 100 volunteers x 6 hours = 600 hours.

10. Time Line

| Task | Start Date | Completion Date |
|--|-------------------|------------------------|
| Stakeholder Coordination & Meeting (Final Design review) | July 2016 | October 2016 |
| Bid Package and Contractor Selection | November 2016 | February 2017 |
| Construction | July 2017 | September 2017 |
| Project Administration and Reporting | July 2016 | December 2017 |

11. **Success.** Pre- and post- project monitoring will confirm erosion reduction. Additionally, we will know we are successful with this project when we have completed restoration construction at identified sites.

Grant application to the *Truckee River Fund*
from the Truckee River Watershed Council

Johnson Canyon Westside Restoration - Construction Implementation

12. Grant match.

| | | |
|---|--|---|
| Match amount to be provided: | \$85,000 | |
| Match details: | Match is: | |
| | Cash | \$79,000 |
| | In-kind | \$6,000 = 50 volunteers x 6 hours x \$10/hour x 2 years |
| | For the cash portion of your match, is the funding already being held by the applicant for this project? Yes <u>X</u> No ___ | |
| Description of matching funds/in-kind donations: | The cash match is from the National Forest Foundation and is secured. We anticipate 50 volunteers will work 6 hours during Truckee River Day. | |

Grant application to the *Truckee River Fund*
from the Truckee River Watershed Council

Johnson Canyon Westside Restoration - Construction Implementation

13. Project Budget:

| ORIGINAL PROJECT BUDGET | | | | |
|---|-----------------|----------------------------|-----------------|------------------|
| Budget Item Description | TRF \$ | Other Funding | Match \$ | Total |
| Construction | \$60,000 | National Forest Foundation | \$71,016 | \$131,016 |
| Project management, reporting, outreach | \$7,000 | National Forest Foundation | \$7,984 | \$14,984 |
| Truckee River Day | | TRWC (Volunteers) | \$6,000 | \$6,000 |
| TOTAL | \$67,000 | | \$85,000 | \$152,000 |

TRWC and our partners have been implementing restoration of Johnson Canyon since 2014. Work up to this time has been funded by:

- \$50,000: Bella Vista Foundation for the watershed assessment
- \$25,000: Truckee River Fund for pre-project monitoring for projects in the eastern portion of Johnson Canyon
- \$11,700: Tahoe Truckee Community Foundation for project design for projects in the eastern portion of Johnson Canyon
- \$253,868: State of California Integrated Regional Water Management Program for construction/implementation projects in the eastern portion of Johnson Canyon
- \$25,000: 2015 Truckee River Fund for pre-project monitoring [additional work was funded, briefly list that, too] for projects in the western portion of Johnson Canyon

Additional funds have already been committed to restoration in Johnson Canyon:

- \$79,000: National Forest Foundation for construction of the Johnson Canyon Westside Restoration.

Grant application to the *Truckee River Fund*
from the Truckee River Watershed Council
Johnson Canyon Westside Restoration

Attachment A
Full list of grants to TRWC from the Truckee River Fund

| | |
|------------------|---|
| Date awarded: | September 2014 |
| Project title: | Donner Lake Watershed Assessment |
| Amount of Award | \$70,000 |
| Date awarded: | March 2014 |
| Project title: | Truckee Wetlands Restoration – Phase 3,4, & 5 – Design |
| Amount of Award | \$50,000 |
| Date awarded: | October 2013 |
| Project title: | Truckee River Big Chief Corridor –Restoration |
| Amount of Award: | \$150,000 |
| Date awarded: | March 2013 |
| Project title: | Truckee River Big Chief Corridor – Implementation |
| Amount of Award | \$11,000 |
| Date awarded: | March 2013 |
| Project title: | Middle Martis Wetland Restoration – planning and design |
| Amount of Award: | \$120,000 |
| Date awarded: | August 2012 |
| Project title: | Phase 2 Coldstream Canyon Floodplain Restoration |
| Amount of Award: | \$196,000 |
| Date awarded: | March 2012 |
| Project title: | Lacey Creek and Meadow Assessment |
| Amount of Award | \$50,000 |
| Date awarded: | March 2012 |
| Project title: | Negro Canyon Restoration – pre-project monitoring |
| Amount of Award: | \$25,000 |
| Date awarded: | October 2010 |
| Project title: | Coldstream Canyon Floodplain Restoration Project |
| Amount of Award: | \$135,000 |
| Date awarded: | August 2010 |
| Project title: | Truckee Wetlands Restoration Project – Phase 2 |
| Amount of Award: | \$40,000 |
| Date awarded: | July 2006 |
| Project title: | “This Drains to the Truckee River” Storm Drain Stenciling Pilot Project |
| Amount of Award: | \$9,300 |

Cover Sheet

| | | | | |
|---|---|-------------------------------|----------------------|--|
| Organization Name: | Truckee Donner Land Trust | | | |
| Type: | 501(c)(3) EIN# 68-0245327 | Governmental entity? N | | |
| Address: | P.O. Box 8816, Truckee, CA 96162 | | | |
| Project Name: | Webber Lake Little Truckee River Headwaters Timber Management | | | |
| Amount requested: \$75,000 | Website: www.tdlandtrust.org | | | |
| This funding will be used to (complete this sentence with a max of 2 sentences): | Funding will allow the Land Trust to thin 35-40 acres of forest immediately around Webber Lake and Lacey Meadows, the headwaters of the Little Truckee River. This timber management will launch a multi-year program, addressing areas of disease and overstock and aid in prevention of catastrophic wildfires. | | | |
| Key People: | Director: | Perry Norris | | |
| | Board Chair: | Jeff Brown | | |
| | Project Contact: | Name: | John Svahn | |
| | | Position: | Stewardship Director | |
| | | Phone: | 530-582-4711 | |
| | | Fax: | 530-582-5528 | |
| Email: | john@tdlandtrust.org | | | |
| Organization Mission: | To preserve and protect scenic, historic and recreational lands with high natural resource values in the greater Truckee Donner region and manage recreational activities on these lands in a sustainable manner. | | | |
| Has your organization received other grants from the Truckee River Fund? Yes NoX (use additional page if necessary) | If yes, | | | |
| | Date awarded: | | | |
| | Project title: | | | |
| | Amount of Award: | | | |
| | Date awarded: | | | |
| | Project title: | | | |
| | Amount of Award: | | | |
| | Date awarded: | | | |
| | Project title: | | | |
| | Amount of Award: | | | |

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- A. Projects that improve bank or channel stabilization and decrease erosion.
- B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.¹
- E. Other projects that meet the evaluation criteria.

NARRATIVE REQUIREMENTS

Provide answers for all 11 sections below; use the numbers and topics (in **bold**) to label each section in your response. Your application is limited to 5 narrative pages, including the cover sheet. Your budget is page 6. **All projects are required to have measurable outcomes:**

1. **Specific project goals and measurable outcomes and how you will measure and report them.** The project goal is to begin management of the forest surrounding Webber Lake and Lacey Meadows by treating an estimated 35-40 acres. This acreage includes timber stands infested with pine bark beetle and areas of former meadow that have been converted to lodgepole pine stands. The forest to be treated is adjacent to an active campground; the treatment will be done in a way to minimize the potential for a fire originating in the campground to spread to the adjacent forest.
2. **Project location.** Webber Lake is the headwater lake of the Little Truckee River. It is located northwest of Truckee via Highway 89 and Jackson Meadows (Fiberboard) Road in Sierra County. The Driving distance is 24 miles from Truckee.
3. **Project description. Include site map and aerial photos if applicable/possible. Maps and photos must fit on 8-1/2" x 11" paper.)** The Webber Lake property, which constitutes the headwaters of the Little Truckee River, consists of approximately 3,200 acres of lake, meadow, and conifer forest habitat. In December 2012, the Land Trust was successful in acquiring the property. The property has astounding resource values including Webber Lake, a 220-acre natural lake that is the headwater lake of the Little Truckee River: the riparian system - a largely intact ecosystem that provides clean source water to the Little Truckee River, Lacey Meadow, a 1,500 - acre meadow system, and Upper Lacey Meadow, a 400-acre meadow system. The Little Truckee River, which flows east off of the Sierra into Nevada, is a significant contributor of water for the cities of Reno and Sparks.

While the property is superlative, the forest, in particular, suffers from overstock, disease, and an interruption in the natural fire cycle. Lodgepole pine encroaches into meadow habitat in numerous locations. Upland stands need to be thinned to minimize disease and bark beetle infestations, and minimize the threat of catastrophic wildfire.

Management of timber stands has an effect on water quality and quantity. Timber stands that have been denuded by catastrophic wildfire are prone to large episodes of erosion, adversely impacting watercourses. Overstocked forests can consume more groundwater than do forests with normal stocking levels. Functioning headwater meadows are important for spring runoff attenuation and water storage, and their importance as water storage facilities is becoming increasingly recognized. While restoration of the watercourses to re-water desiccated meadows is critical to proper function, so too is reclaiming portions of meadow that have been replaced with dense stands of lodgepole pine. Lodgepole pine is a species with a non-serotinous cone that left unmanaged, can quickly encroach upon meadow systems and other forest openings. Lodgepole encroachment places unnatural demands on groundwater levels, depriving meadows of the moisture needed to maintain their integrity. This continual draw on the groundwater by growing conifers is significant, leading to a gradual drying of the meadow soils, which perpetuates conifer regeneration. Left unmanaged, lodgepole pine is capable of dominating meadow openings, thereby eliminating the benefits to groundwater supply, water quality, and wildlife once offered by the meadow ecosystems.

To properly manage the forest, the Land Trust has contracted with a Registered Professional Forester to complete a Non-industrial Timber Management Plan, to be completed this summer. With this plan, the Land Trust will begin managing the timber stands this summer, starting with the 35-40 acres of forest adjacent to the Webber Lake campground, which is a high-risk area for ignition and propagation of wildfire. Some of the acreage will also include mastication of dense stands of lodgepole pine that are converting meadow to forest habitat. The project will be on-going as hundreds of acres of forest will ultimately be treated. Treatment will be completed through a mix of mechanical mastication of smaller trees and downed fuels, and mechanical tree felling and transport. Non-merchantable wood will be turned to chips and dispersed onsite. Logs are to be retained by the timber operator to offset the cost of the project.

4. **Grant priorities. Explain how the proposed project advances the TRF's grant priorities (page 2 of the cover sheet); refer to the priorities by number in your narrative.** The project addresses several priorities. As

meadows are excellent source water reservoirs, protection and enhancement of the meadow by removing encroaching lodgepoles, and by reducing the threat of fire to the upper watershed will aid in source water protection. When forests are managed sustainably, they act as a natural filter, helping soils absorb key nutrients, deflect the erosive energy of raindrops, and provide for stabilization of the soil profile through the presence of extensive root masses. Following a wildfire, erosion and the amount of sediment entering waterways will increase. Wildfire destroys vegetation, eliminating the canopies that protect soil from erosion, and killing root systems that hold onto soil. Post-fire rainfall leads to surface erosion and flood events as soils lie bare and exposed to the erosive energy of precipitation. This circumstance affects water quality by increasing turbidity and changing water chemistry through inputs of nitrates, phosphorus, and other nutrients once held within the soil. While the project is small and doesn't address a large acreage of forest that could be burned, the acreage is immediately adjacent to Webber Lake. In addition, the project is designed to help keep a fire from becoming catastrophic in a high-risk area (next to an active campground). Lastly, Land Trust staff intends to post signage explaining the need for treatment and updates on the progress. The area is open to the public for day-use and the Land Trust has found interpretive signage to be an effective communication for stewardship activities.

5. **Permitting. Provide a permitting schedule for your project along with your plan for getting the required permits. Be sure to include the cost of permitting as a line item in your budget.** The project is intended to follow the creation of a Non-industrial Timber Management Plan (NiTMP), funded through a California Proposition 1 grant through the Sierra Nevada Conservancy. This serves as permission through CEQA. The NiTMP is a comprehensive document for management of all of the timber on the property. Should the NiTMP not be funded, the timber management in this proposal will still occur via an exemption from CEQA through CalFire. This exemption is granted for emergency fuels management adjacent to populated areas. The NiTMP should be complete in August. Should the NiTMP not get funded, a CalFire exemption will then be pursued with a completion prior to the mid-October start date for timber operations.
6. **If future phases of the project will be needed, identify anticipated sources of funding.** Future phases will be needed. To complete future phases, the Land Trust will rely on a mixture of grant requests, revenue from the existing lease of the private campground (which will cease in 2016), revenue generation from the public campground (which will open in 2018), and existing grazing leases. After the refurbishment of the existing campground when it transitions from private to public, forest management is the top priority of the Land Trust at Webber Lake/Lacey Meadows.
7. **Principals involved in leading or coordinating the project or activity.** John Svahn, Stewardship Director; Danielle Banchio, Registered Forester #2808.
8. **Number of staff positions involved in project:** Fulltime Part-time **2** ("Fulltime" means 100% of their staff position will be dedicated to this project; "part-time" means only a portion of their staff position will be dedicated to this project) Part-time **2**.
9. **Number of volunteers involved in project and an estimated number of volunteer hours.** Volunteers will not be involved in the timber management.
10. **Time Line of Project. List key dates and include project milestones. Note: Be realistic in your estimate of dates and milestones. List any factors that may cause a delay in implementing and/or completing the project.** The NiTMP is scheduled to be completed August 2016. Timber operations will begin in October. The time delay between the permit and the timber operations is because the Land Trust will wait until the campground is closed for the season. As timber operations will occur in meadow and former meadow, a potential delay may be due to moist soils incapable of supporting the heavy equipment that will fell and masticate the trees.
11. **Success. Tell the committee how we will know you succeeded in what you proposed to do.** Success will be measured by completion of the treatment of the stated acreage. The Land Trust will submit photos and a report, and will offer a tour of the property to the committee.

12. **Grant match.** All applicants must provide a match of at least 25 percent for dollars requested. The match may be with funding and/or in-kind services. For larger grant requests, priority will be given to projects that significantly leverage the grant with funding from other sources. Complete the Grant Match section.

13. **Project budget** (see Sample Budget Template on page 5 of this RFP). Provide detail on line-item expenditures and show which costs are to be paid for by the Truckee River Fund grant, which expenses will be paid for by other sources, and which will be paid for with in-kind services. Other sources of funding should be provided.
 - *Note 1:* Project budget must be a stand-alone, one-page attachment.
 - *Note 2:* Indirect/overhead expenses cannot exceed 25 percent.Grants from the Truckee River Fund are paid on a reimbursable basis for actual expenditures only. Craft your budget in such a way that requests for reimbursement correspond to the original budget.

Grant Match

| | | | | |
|--|---|------|--|---------|
| Match amount to be provided: | \$18,750 at a minimum | | | |
| Match details: | Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections. | | | |
| | Match is: | | | |
| | <table border="1"> <tr> <td>Cash</td> <td>\$18,750 plus a requested \$70,000 from the Sierra Nevada Conservancy</td> </tr> <tr> <td>In-kind</td> <td>\$</td> </tr> </table> <p>Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual.</p> | Cash | \$18,750 plus a requested \$70,000 from the Sierra Nevada Conservancy | In-kind |
| Cash | \$18,750 plus a requested \$70,000 from the Sierra Nevada Conservancy | | | |
| In-kind | \$ | | | |
| For the cash portion of your match, is the funding already being held by the applicant for this project? Yes <u>X</u> No <u> </u> | | | | |
| Description of matching funds/in-kind donations: | A grant match of 25% is ensured from stewardship funds raised during acquisition of the property, which are held in an account restricted to Webber Lake/Lacey Meadows expenditures. As well, we are requesting grant funds from the Sierra Nevada Conservancy for the creation of the Non-industrial Timber Management Plan. | | | |

ATTACHMENTS

You may be asked to submit the following attachments via email. If you are asked to submit the attachments, clearly label each file with your organization’s name. If you do not have the ability to email them, place each of the items listed below on a separate page and submit just one copy.

Nonprofits submit:

- Last audited financial statements if your organization has been audited
- List of Board of Directors
- Copy of agency’s IRS 501(c)(3) Tax Determination Letter
- Copy of the agency’s most recent IRS Form 990

Governmental entities submit:

- Departmental budget in lieu of audited financial statements

SAMPLE BUDGET TEMPLATE

| ORIGINAL PROJECT BUDGET | | | | | REIMBURSEMENT REPORT | |
|--------------------------|-----------------|--|-----------------|--------------------|--------------------------|--------------------------------------|
| Budget Item Description* | TRF \$ | Other Funding Name** | Match \$ | Total | Expenditures to date TRF | Expenditures to date (other sources) |
| Design/Engineering | \$6,000 | | | \$6000 | | |
| | | Sierra Nevada Conservancy NiTMP (Applied for; TRF project not contingent on creation of NiTMP) | | | | |
| Permitting | \$1,500 | | \$70,000 | \$71,500* | | |
| Labor--paid | \$67,500 | | \$18,750 | \$86,250 | | |
| TOTAL | \$75,000 | | \$88,750 | \$163,750** | | |

*The NiTMP is considered both a design and permitting document in CEQA

** Funding to treat additional acres is not identified in this amount as it is conditional on the findings of the NiTMP.



TAKE CARE- TRUCKEE RIVER FUND PROPOSAL



BACKGROUND

We’ve got poop problems, bear problems, litter problems, aquatic invasive species problems, and fire danger. Simply put, we’ve got issues. Most of these are caused by irresponsible recreation. These issues are leading to negative impacts on our environment, as toxins from waste leaches into our waters and smoke from forest fires degrades our air and water quality. Until now, the Tahoe Region has lacked a coordinated effort to encourage residents and visitors to take action to protect and preserve the environment. Agencies and organizations were all speaking to different issues creating confusion on the part of the public as to what, if anything, they can do to help protect the forests and watershed.

To address this problem, the Lake Tahoe Outreach Committee (LTOC) which consists of the Tahoe Fund, League to Save Lake Tahoe, North Lake Tahoe Chamber, Tahoe Resource Conservation District, Tahoe Regional Planning Agency, and the UC Davis - Tahoe Environmental Research Center, began working with stakeholders in 2013 to understand the core issues and develop an impactful campaign to change behaviors. This work included two separate workshops with regional stakeholders, a public survey of more than 600 individuals, 12 intensive hour-long empathy mapping interviews, five focus groups held with high school and college students, and input from public and private leaders in the region.

The result of the effort is Take Care, a campaign designed to motivate residents and visitors in the Lake Tahoe Region to reduce their impact on the natural environment by uniting the multitude of agencies, groups and organizations into a unified voice on what individuals can do to help protect the local environment. The Take Care messages were designed to make people smile, laugh, and take notice. The materials were made available to public and private organizations at no cost. More than 200 individuals have downloaded the toolkit for use and signs can be seen throughout the Region.

The LTOC has received requests from partners and stakeholders to expand the Take Care campaign to include messages that address the impacts of irresponsible recreation in and around the Truckee River during the height of rafting and bike path season to improve water quality and protect the Truckee River Watershed. Tahoe City PUD user counts show an average summer day has nearly 1,500 people using this section of the River from the Tahoe City Dam to the end of the bike path at Squaw Valley.



REQUEST

The LTOC requests the support of the Truckee River Fund to develop Take Care campaign messages that will inspire users of the Truckee River and the adjacent bike path to reduce pollution and degradation of the Truckee River caused by irresponsible recreational use. Included in these messages will be reminders to take care of the riverbanks, reduce litter and pollution into the River, and general awareness of the Truckee River as a source of drinking water for those living downstream. This grant would provide resources to develop key messages, artistic development and design of new concepts, and printing and installation of 13 signs at 8 locations along the Truckee River from the Tahoe City Dam to the end of the bike path at Squaw Valley. In addition, the LTOC would like to host a dedicated Truckee River Clean Up day on this stretch of the River to further educate the community.

The LTOC will work in partnership with the Tahoe City Public Utility District (TCPUD) to provide the greatest visibility for the messages. The TCPUD is eager to see these signs posted, and has agreed to install the new signs once they are produced.

| | | | | |
|---|---|-------------------------------|---------------------|--|
| Organization Name: | Tahoe Fund on behalf of the Lake Tahoe Outreach Committee | | | |
| Type: | 501(c)(3) EIN#01-0974628 | Governmental entity? N | | |
| Address: | PO Box 7124 Tahoe City, CA 96145 | | | |
| Project Name: | Take Care- Truckee River | | | |
| Amount requested: \$9,354 | Website: www.takecaretahoe.org | | | |
| This funding will be used to (complete this sentence with a max of 2 sentences): | Develop Take Care messaging that will mitigate substantial threats to water quality and the watershed caused by irresponsible recreational users of the Truckee River. Produce and install Take Care signage along the Truckee to remind rafters and bike path users to be responsible stewards of the river and host a volunteer clean up day. | | | |
| Key People: | Director: | Amy Berry | | |
| | Board Chair: | Timothy Cashman | | |
| | Project Contact: | Name: | Diana Dorman | |
| | | Position: | Coordinator | |
| | | Phone: | 775-298-0035 | |
| | | Fax: | 775-298-0036 | |
| Email: | | ddorman@tahofund.org | | |



DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- A. Projects that improve bank or channel stabilization and decrease erosion.
- B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.¹
- E. Other projects that meet the evaluation criteria.

NARRATIVE REQUIREMENTS

1. Specific project goals and measurable outcomes and how you will measure and report them.

The goal of this project is to inspire recreationists to change their behaviors through friendly reminders that promote reduction of human impacts and pollution to the Truckee River caused by irresponsible recreational uses of the River and the adjacent bike path. We will do this by developing Take Care messaging specific to recreational uses of the Truckee River, and to deploy these messages along the River to help reduce the human impacts and pollution to the water quality and the watershed. We will also coordinate a volunteer clean up day on the River in the height of rafting season. Success will be measured by the creation of impactful messages, installation of the messages in appropriate locations, and a noticeable reduction in litter during volunteer clean up days or as reported by Tahoe City PUD and/or Placer County.

2. Project location

The bike path from Tahoe City to Squaw Valley along the Truckee River. It is also the hope of the LTOC and Tahoe City PUD to see these signs posted on the private bridges to catch rafters while they float past. That will require work with the private owners of the bridges. Note, the materials that are developed for this project can also be leveraged for use throughout the Truckee River Watershed, but this project will focus on signage installation along this corridor.

3. Project description

The project includes the creative development and installation of new Take Care signs that address irresponsible recreation on and along the Truckee River from the mouth of the Tahoe City Dam to the end of the bike path at Squaw Valley. The project will include multiple headlines, two illustrations, eight sign posts and 13 total installed signs. Additionally, the artwork that is developed will be made available at no cost to anyone who wishes to use the messages in their Truckee River Watershed outreach efforts. The project also includes a Truckee River Volunteer Clean Up Day in July, at the height of rafting season. (A map is attached with locations of new signs noted.)

4. Grant priorities

This initiative advances the Stewardship and Environmental Awareness priority (VI): Support to Clean-Up programs and the development and implementation of educational programs relative to water, water quality and watershed protection. Through the new Take Care signs, we will make



recreational users of the Truckee River aware of the sensitivity of the watershed, the importance of limiting negative impacts (litter, bank erosion, pollution into the River, etc.) and its role as a source of drinking water downstream.

5. Permitting

No permitting is required. Signs will be posted on Tahoe City PUD land. Approvals would be needed from private bridge owners if the LTOC decides to pursue those locations in addition to the identified sign locations.

6. Future phases

This project leverages significant prior cash and in-kind resources and is not anticipated to require additional funding to be successful. We are designing the messages to be “evergreen” so that they can have a long life cycle. In addition, the Lake Tahoe Outreach Committee is dedicated to sustaining this campaign once it is launched through the continuance of weekly meetings, dedicated staff time from each of the organizations, and a continued focus on grant funding for future initiatives.

It is possible the public agencies will want to expand upon the program, which can be funded by public agency budgets or additional grant sources.

The Tahoe Fund board of directors has expressed support for Take Care as one of its highest priority projects.

7. Principals involved

The Lake Tahoe Outreach Committee is comprised of the following individuals and organizations: Amy Berry and Diana Dorman, Tahoe Fund; Nicole Cartwright, Tahoe Resource Conservation District; Ginger Karl, North Lake Tahoe Resort Association & Chamber; Devin Middlebrook, Tahoe Regional Planning Agency; Marilee Movius, League to Save Lake Tahoe; Heather Segale, UC Davis-Tahoe Environmental Research Center. In addition, we will work closely with the Tahoe City Public Utility District to install the signage.

8. Staff positions involved

Fulltime 0 Part-time 7

9. Volunteers involved

Approximately 20 – 30 volunteers to participate in a clean-up day along the Truckee River from Tahoe City to Squaw Valley for a minimum of 3 hours totaling 60 - 90 hours.

10. Time Line

- Develop key messages with stakeholders March 28-April 8
- Brief creative team on key messages April 11
- Creative Team develops concepts April 12-26
- Revise and approve new concepts April 27-May 6
- Illustration completed May 13
- Final artwork of new concepts May 20
- Signs printed and installed June 13
- Volunteer Clean Up Day Announced Early July
- Volunteer Clean Up Day July 23



Note, if the grant is awarded after this proposed start date, the project will begin as soon as the grant is awarded.

11. Success.

We have learned that the first step in changing behaviors is to make people aware of their current behavior, and the impact it is having on the environment. This project seeks to accomplish the following in our long-term goal of building better stewardship of the Truckee River and the entire extended Tahoe Region:

- Develop Take Care messages that support responsible recreational use of the watershed, either as a rafter on the River or a user on the bike path alongside the River.
- Work with Tahoe City PUD and Placer County to install the signs.
- Work with Placer County to host a volunteer clean up along the River at hotspot locations to clean up the River and bring attention to the issue.

12. Grant match.

The LTOC and TCPUD will dedicate \$6,465 in in-kind match for the development of the key messages, project management, installation of the signs, and coordination of the volunteer clean up day. That is a 41% match. In addition, this project takes advantage of a grant program through Vail Resort’s Epic Promise program that provides Take Care signs through the Heavenly Sign Shop at significantly reduced rates.

Of note, this project leverages the prior work of the LTOC and the \$65,000 investment in producing the Take Care program, thus reducing the timeframe and overall expense of developing these messages.

Grant Match

| | | | | |
|--|--|------|--|---------|
| Match amount to be provided: | \$6,465 | | | |
| Match details: | Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections. | | | |
| | Match is: | | | |
| | <table border="1"> <tr> <td>Cash</td> <td></td> </tr> <tr> <td>In-kind</td> <td>\$6,465</td> </tr> </table> <p>Note: Volunteer and in-kind hours may be calculated at a maximum rate of \$20/hour per individual.</p> | Cash | | In-kind |
| Cash | | | | |
| In-kind | \$6,465 | | | |
| For the cash portion of your match, is the funding already being held by the applicant for this project? Yes _ No __ | | | | |

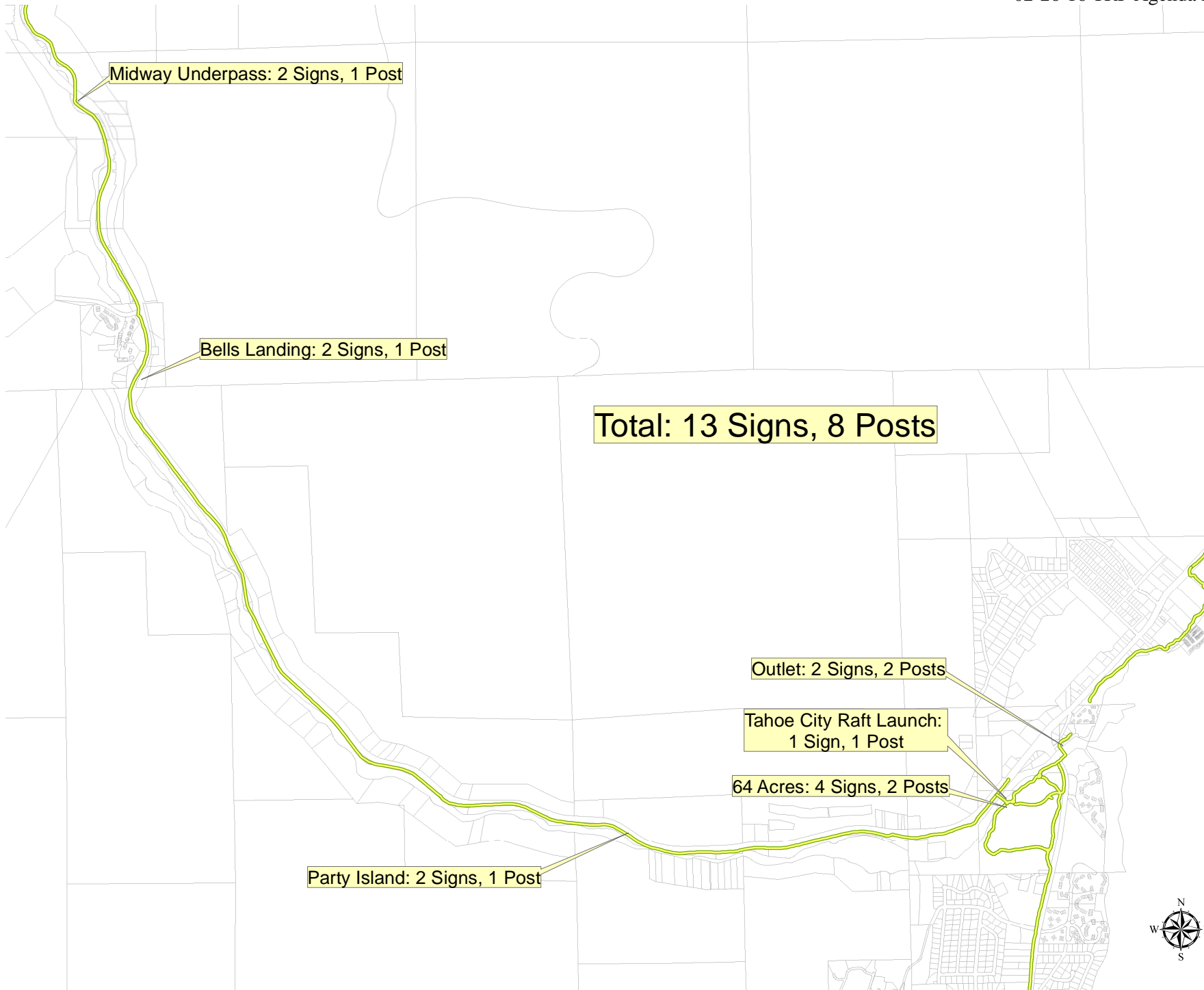


TAKE CARE BUDGET

| Budget Item Description | TRF \$ | Other Funding Name | Match In-Kind \$ | Total |
|--------------------------------|----------------|---------------------------|-------------------------|-----------------|
| Develop Key Messages | \$0 | LTOC | \$250 | \$250 |
| Copywriters/Headlines | \$1,500 | | \$0 | \$1,500 |
| Illustrations-2 | \$5,000 | | \$0 | \$5,000 |
| Creative Director | \$1,500 | | \$0 | \$1,500 |
| Printing (13 signs) | \$197 | | \$0 | \$197 |
| Installation (8 posts) | \$857 | TCPUD | \$415 | \$1,272 |
| Project Management | \$0 | LTOC | \$1,000 | \$1,000 |
| Volunteer Coordination | \$0 | LTOC | \$1,200** | \$1,200 |
| Clean Up Day | \$300 | LTOC | \$3,600* | \$3,900 |
| TOTAL | \$9,354 | | \$6,465 | \$15,819 |

*Clean Up Day In Kind match to be provided by 30 volunteers with 2-3 hours of work at \$20/hour

**Coordination of the volunteers will be provided in-kind by LTOC member, League to Save Lake Tahoe



TAKE CARE TAHOE
Truckee River Signage

TAHOE CITY PUBLIC UTILITY DISTRICT

P.O. BOX 5249
 TAHOE CITY, CA. 96145
 (530) 583-3796



SHEET:

1



Prosser WUI Fuel Reduction Project

| | | | |
|--|--|---|------------------------------|
| Organization Name: | | USDA Forest Service, Tahoe National Forest, Truckee Ranger District | |
| Type: | | 501(c)(3) EIN# 72-0564834 | Governmental entity? Yes |
| Address: | | 10811 Stockrest Springs Road | |
| Project Name: | | Prosser WUI Fuels Reduction Project | |
| Amount requested: \$270,000 | | Website: http://www.fs.usda.gov/tahoe | |
| This funding will be used to (complete this sentence with a max of 2 sentences): | | This funding will cover the cost of implementation of a portion of this project. The entire project will cost approximately \$337,000. | |
| Key People: Joanne Roubique Eric Petterson Joe Griffin Linda Ferguson Karie Wiltshire Mary Hetherington | Project Contact: | Name: | Linda Ferguson |
| | | Position: | District Fuels Specialist |
| | | Phone: | 530-587-3558 530-412-2333 |
| | | Fax: | 530-587-6914 |
| | | Email: | lmferguson@fs.fed.us |
| Organization Mission: | The agency's mission is to sustain the health, diversity, and productivity of the nation's forests and grasslands to meet the needs of present and future generations. | | |
| Has your organization received other grants from the Truckee River Fund? No | | | |

DESCRIPTION OF PROJECT UNDER CONSIDERATION

Indicate the description that best fits the project you are proposing. Mark no more than three categories:

- A. Projects that improve bank or channel stabilization and decrease erosion.
- B. Structural controls or Low Impact Development (LID) projects on tributaries and drainages to the Truckee River where data supports evidence of pollution and/or sediments entering the Truckee River.
- C. Projects that remove pollution from the Truckee River.
- D. Projects that remove or control invasive aquatic species or terrestrial invasive plant species that are adverse to water supply.
- E. Other projects that meet the evaluation criteria.

IV. Re-Forestation and Re-Vegetation Projects: Projects to restore forest and upland areas damaged by fire and historical logging operations, and to improve watershed resiliency in drought situations. Projects/programs in this category should be given a high priority due to urbanization of the watershed and increased susceptibility of the urban and suburban watershed to wildfire.

VII. Meet Multiple Objectives: Projects/Programs should identify opportunities to meet multiple water quality and watershed objectives as outlined above with preference given to those achieving multiple benefits.

This is a forest thinning project that will improve health and vitality of a forest stand near Prosser Creek Reservoir. It will also provide improved defensible space for the property owners adjacent to the project area.

Prosser WUI Fuel Reduction Project

Currently the area is overstocked with small trees and brush. The trees are becoming stressed due to low water levels and there are too many stems per acre due to fire suppression over the past 100 years. Fire was common in this area burning every 7-15 years. Fire was the natural fuel reduction method that occurred when it needed it. Without fire the land has become overstocked with trees and the dead fuel load is beyond capacity of what a normal stand would be. If a fire starts in this area under certain weather conditions a large fire is likely to occur.

There is also a beetle infestation that has been on-going. This project would remove beetle infested trees as well as trees that may become infested. The idea is to leave a healthy stand with enough water so that they can survive a beetle infestation. A healthy tree can push the beetles out with sap.

1. Specific project goals and measurable outcomes and how you will measure and report them.

Goals for fire and fuels management include reducing threats to communities and wildlife habitat from large, severe wildfires.

- Treating fuels in a manner that significantly reduces wildland fire intensity and rate of spread, thereby contributing to more effective fire suppression and fewer acres burned;
- Treating fuels in a cost-efficient manner to maximize program effectiveness; and
- Actively restoring fire-adapted ecosystems by making demonstrated progress in moving acres out of unnaturally dense conditions (in other words, moving acres from condition class 2 or 3 to condition class 1).The Prosser WUI project is considered to be in Condition Class 3. See Table 1 on Condition Class. By removing and rearranging vegetation we will be moving the condition class to a 1 or a 2.

Table 1: Condition Class definition

| Condition Class | Fire Regime | Example management options |
|-------------------|--|--|
| Condition Class 1 | Fire regimes are within a historical range and the risk of losing key ecosystem components is low. Vegetation attributes (species, composition and structure) are intact and functioning within historical range. | Where appropriate these areas can be maintained within the historical fire regime by treatments such as fire use and prescribed fire. |
| Condition Class 2 | Fire regimes have been moderately altered from their historical range. The risk of losing key ecosystem components is moderate. Fire frequencies have departed from historical frequencies by one or more return intervals (either increased or decreased). This results in moderate changes to one or more of the following: fire size, intensity and severity, and landscape patterns. Vegetation attributes have been moderately altered from their historical range. | Where appropriate, these restoration treatments, such as fire use and hand or mechanical treatments will help restore areas to the historical fire regime. |
| Condition Class 3 | Fire regimes have been significantly altered from their historical range. The risk of losing key ecosystem components is high. Fire frequencies have departed from historical frequencies by multiple return intervals. This results in dramatic changes to one or more of the following: fire size, intensity, severity, and landscape patterns. Vegetation attributes have been significantly altered from their historical range. | Where appropriate, these areas may need high levels of restoration treatments, such as hand or-mechanical treatments, before fire can be used to restore the historical fire regime. |

Prosser WUI Fuel Reduction Project

- Currently flames lengths are mostly between 8-11 feet under 90th percentile weather conditions. In some of the brushier areas we would anticipate even higher flame lengths.
- When the project is complete flame lengths would be around 4 feet according to the modeling done. The 90th percentile weather or average worst weather conditions will be used to represent the specific weather factors for planning purposes. This means that 10% of the observed weather days for the past 10 years have had more severe fire weather than those used for determining fire intensity levels. Understand that 10% of our summer days will actually have higher flame lengths and more intense fire behavior than what was modeled.

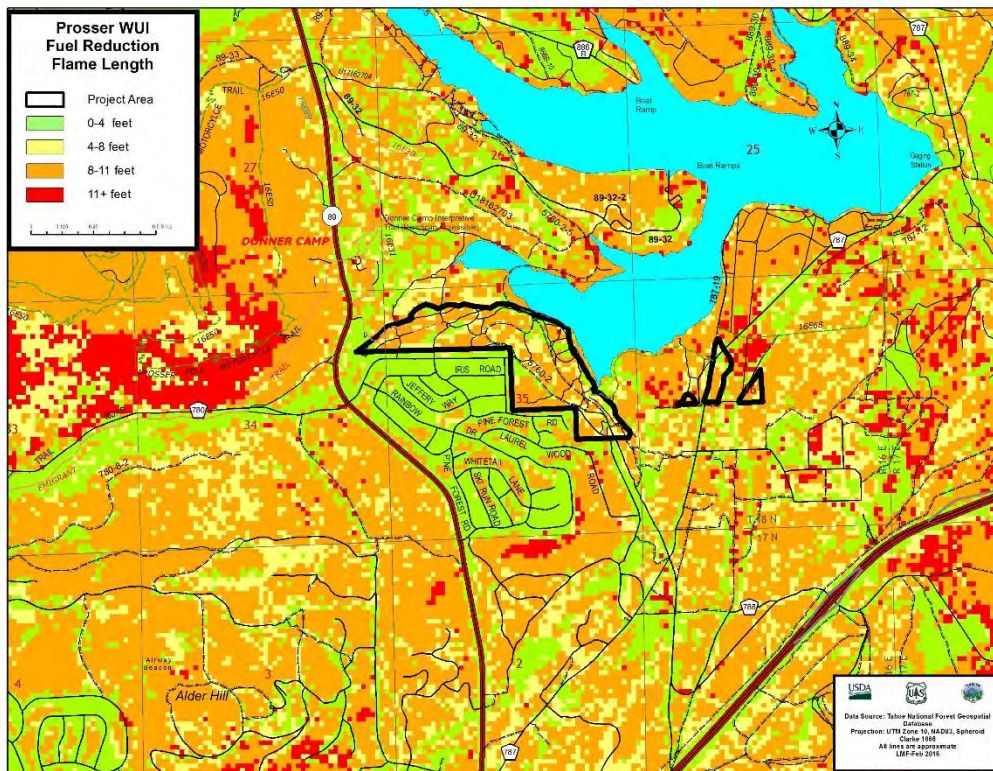


Figure 1: Current flame length modeling under 90th percentile weather

2. **Project location.** This project is located in the Truckee Ranger District of the Tahoe National Forest along East Alder Creek Road directly behind hundreds of homes. The legal description for the project is a portion of Sections 34, 35 and 36, T. 18 N., R. 16 E.
3. **Project description.** The Prosser WUI (Wildland Urban Interface) Project proposes to treat vegetation and improve stand conditions on 151 acres of NFS lands near structures located near the Prosser Lakeview Estates along East Alder Creek Road. The proposal is to masticate 131 acres and handthin/pile 20 acres with a follow up pile burn. Because the majority of the project area encompasses sensitive resources, most of the units would be treated with a low-pressure minimally ground disturbing “spider” masticator and with hand thinning under consultation with resource specialists.

The Prosser WUI Fuel Reduction Project is needed to effectively treat the Wildland Urban Interface (WUI) lands consistent with current standards and guidance. Effectively treated WUI lands are needed to protect National Forest System lands from a wildfire started on private lands, enhance protection of private lands in the event of a wildfire ignition on NFS lands, and provide a safe place for resources to engage in suppression activities in the event of a wildfire.

The project is entirely in a WUI Defense Zone, and currently does not meet WUI desired conditions due to heavy fuel loading (both surface and ladder) and due to safety hazards and fuel loading associated with dead and dying trees caused with pine bark beetle infestations.

Prosser WUI Fuel Reduction Project

Fuel loading within the project area is high due to fire suppression and limited treatment since the 1990s. Each year the fuel load continues to build and trees continue to fill in. The larger lodgepole pine in the project area also continues to die due to beetle infestation which further contributes to fuel loading and snags that pose safety concerns to firefighters. Without treatment, if a fire starts in the area under certain weather conditions it becomes more difficult and dangerous to suppress.



Figure 2 demonstrates the current spacing of smaller diameter trees within the project area. These trees are too close together and there are too many stems per acre. If a fire starts within this stand it will most likely become a crown fire, making fire suppression difficult and will almost certainly threaten homes.

Figure 2: current spacing of trees within the Project Area

Property owners from Prosser Lakeview Estates have been concerned about the fuel loading and dead and dying trees on National Forest System (NFS) lands adjacent to their property. There is also evidence of beetle infestation in larger lodgepole pines in the area. These larger trees are dead or dying and the project would also prevent further beetle infestation by removing some of the larger dead and live trees. The project would aid in protection of NFS lands from a wildfire started on private lands as well as enhance protection of private lands in the event of a wildfire ignition on NFS lands. This project would also provide a safe place for resources to engage in suppression activities in the event of a wildfire. Furthermore, the project would improve timber stand health by removing ladder/surface fuels and some of the larger lodgepole pine that may become infested with beetles.

Figure 3: Beetle infested trees within the Project Area



When: Implementation would occur in during dry seasons between 2016– 2017.

4. **This project will reach grant priority number IV Re-Forestation and Re-Vegetation Projects and number VII by meeting multiple objectives.**

This is a forest thinning project that will improve health and vitality of a forest stand near Prosser Creek Reservoir. It will also provide improved defensible space for the property owners adjacent to the project area. Currently the area is overstocked with small trees and brush. The trees are becoming stressed due to low water

Prosser WUI Fuel Reduction Project

levels and there are too many stems per acre due to fire suppression over the past 100 years. Fire was common in this area burning every 7-15 years. Fire was the natural fuel reduction method that occurred when it needed it. Without fire the land has become overstocked with trees and the dead fuel load is beyond capacity of what a normal stand would be. If a fire starts in this area under certain weather conditions a large fire is likely to occur.

There is also a beetle infestation that has been on-going. This project would remove beetle infested trees as well as trees that may become infested. The idea is to leave a healthy stand with enough water so that they can survive a beetle infestation. A healthy tree can push the beetles out with sap.

This project would also give firefighters a safe place to engage in fire suppression. Too many firefighters have lost their lives over the years due to trying to save homes in areas where the fire behavior was too intense. By removing/rearranging fuels, and getting flame lengths under four feet we will give them a safer place to do their job.

5. **Permitting.**

We are still waiting for the decision memo within the NEPA document to be signed. We are anticipating that the documents will be signed by April 1st, 2016.

6. **If future phases of the project will be needed, identify anticipated sources of funding.** Other grant opportunities, or USFS fuels budget funding.

7. **Principals involved in leading or coordinating the project or activity.** The USFS will provide a contract manager to ensure contractor meets all requirements and objectives for the project. This project will be supervised closely by USFS personnel.

8. **Number of staff positions involved in project:** Two Part-time staff member from the USFS.

9. **Number of volunteers involved in project and an estimated number of volunteer hours.**

There will be no volunteers for this project.

10. **Time Line of Project. List key dates and include project milestones. Note: Be realistic in your estimate of dates and milestones. List any factors that may cause a delay in implementing and/or completing the project.** If grant money is awarded this year we could begin work July 2016 as long as the contractor is available to do the work. It would take one field season to finish the project, which would make the end date October 2016. Possible delays would be high fire danger, broken equipment or the unavailability of equipment. In the event of a delay the project would be finished October 2017.

11. **Success. Tell the committee how we will know you succeeded in what you proposed to do.** We will know we have succeeded when the fuel behind adjacent homes have been removed/rearranged. The property owners will be pleased that this project is finished. They have been concerned about the fuel loading behind their home for some time. Once the project is completed flame lengths will be much lower so fire fighters will have a better success rate with suppression efforts. Fuel loading, weather and topography is what drives large wildfires. Fuel loading is the only thing humans have control over. If you take the fuel away...a fire cant burn. If you take some fuel away the fire less intensely.

12. **Grant match. see Table 2**

13. **Project budget: see Table 3**

Prosser WUI Fuel Reduction Project

Table 2: Grant Match

| | | |
|---|--|---|
| Match amount to be provided: | | \$67,700 |
| Match details: | Please provide the form of your matching funds. If match is made up of both cash and in-kind, fill in both sections. Match is: | |
| | Cash | \$ |
| | In-kind | \$67,700 in USFS employee wages, burn mix and supplies |
| Description of matching funds/in-kind donations: | The Interdisciplinary team on the Truckee Ranger District have already put time into building the NEPA document. The team consists of nine specialists from the Truckee Ranger District which have provided input for soils, hydrology, botany, wildlife, timber, fuels, heritage, contract administration, and environmental coordination. We have also been meeting with the public in and around the area and scheduling public meetings. The boundary is already marked. The project is ready to go except for some archaeological concerns we need to figure out with the Washoe Tribe on how they would like to mitigate. | |

Table 3: Budget

| PROSSER WUI FUEL REDUCTION BUDGET | | | | | REIMBURSEMENT REPORT | |
|-----------------------------------|------------------|--------------------|-----------------|----------------|--------------------------|-----------------------------|
| Budget Item Description | TRF \$ | Other Funding Name | Match \$ | Total | Expenditures to date TRF | Expenditures to date (USFS) |
| Design/Engineering | | USFS | \$7,000 | \$7,000 | | \$7,000 |
| Contract Implementation | \$270,000 | USFS | | \$270,000 | | |
| Contract Administration | | USFS | \$10,000 | \$10,000 | | |
| NEPA reports | | USFS | \$25,700 | \$25,700 | | \$25,700 |
| Overhead (max 25%) | | USFS | \$11,000 | \$11,000 | | |
| Burn Mix | | USFS | \$1,000 | | | |
| Pile burning | | USFS | \$12,000 | | | |
| supplies | | USFS | \$1,000 | | | |
| TOTAL | \$270,000 | | \$67,700 | 323,700 | | \$32,700 |

The Truckee District has already designed the project. The NEPA process was started in spring of 2014 and should be finished by April 1st of 2016. The specialist reports are finished. There were some sensitive heritage features found within the project area so we are currently working with the Washoe Tribe to see how they would like to move forward. Approximately \$32,300 has already been spent with USFS budget designing the project and writing specialist reports.

We need financial help with implementation. The entire project is 151 acres. 131 acres of mastication which would cost around \$2000 per acre which comes to \$262,000. 20 acres of hand thinning/piling would cost around \$1000 per acre which comes to \$20,000. \$270,000 would help significantly with getting the project started. We can also divide the project into smaller portions if we are not fully funded.