



STAFF REPORT

TO: Chairman and Board Members
THRU: Mark Foree, General Manager
FROM: Ron Penrose P.E., TMWA Project Manager and River Fund Facilitator
 Janet Phillips, Chairperson, Truckee River Fund Advisory Committee
 Sylvia Harrison, Legal Counsel
DATE: December 2, 2013
SUBJECT: **Truckee River Fund activities for Calendar Year 2013**

Purpose

The purpose of this report is provide the TMWA Board of Directors a summary of Truckee River Fund program (TRF) activities from its 2005 inception, including a detailed summary of 2013 activities. TMWA and the Board should feel very good about the program and the outstanding contributions the Fund has made for the community, region, and our important watershed. Over the years, the Truckee River Fund Advisory Committee has developed an effective and rigorous approach to the evaluation of proposals, to ensure that those recommended for approval by the TMWA Board have tangible and measurable outcomes and meet the objectives of the Fund. Through the able assistance of the Community Foundation of Western Nevada, all project proponents are required to account for funds dispersed and to provide reports on project status and completion.

Program Update

As the Board may recall, the Fund was conceived and established in 2005 with the intent of supporting water quality and watershed protection projects that TMWA could not pursue on its own. Since inception, the program has evolved into an important component of TMWA's overall water quality protection program, funding projects which have directly or indirectly improved water quality or the watershed of the Truckee River.

Financially, the TRF provides tremendous financial leverage for source water protection projects that TMWA could not ordinarily implement or afford. To date, the Fund has collaborated with other non-profit groups and governmental agencies to support 101 projects, with a \$9.2 million contribution from the Fund (via TMWA) being matched by \$17.4 million from its TRF partners. This is indeed tremendous leverage.

The TRF has also stepped to the forefront by proactively supporting fire restoration projects in the local Truckee River watershed, these being the Hawken Fire (2007), the Caughlin Fire

(December 2011), and the Washoe Drive Fire (February 2012). In each instance the TRF provided immediate support and helped expedite recovery and restoration efforts, important in mitigating environmental damage and reducing erosion and sediment loading to the Truckee River. On a macro basis, the Fund has supported important water quality and watershed improvement projects in the following areas of concern:

- **Invasive Species:** The introduction and proliferation of invasive species, both terrestrial and aquatic, is a major concern for TMWA. As such, TMWA has supported projects to mitigate terrestrial invasive weeds and has funded the development and implementation of watercraft inspection programs at Lake Tahoe and nearby reservoirs to prevent the introduction of aquatic invasive species, including the quagga and zebra mussel into the waters of Lake Tahoe and nearby reservoirs.
- **Urbanization of the Local Watershed:** Recent development in the foothill areas of the Reno area has led to degradation of local tributaries to the Truckee River via irrigation run-off and storm water discharges. Local tributaries upstream of TMWA's primary water treatment plant have been adversely impacted causing increased sediment, total dissolved solids (TDS) and turbidity loading. Because of this concern, the Fund has supported projects and programs that have helped to mitigate these problems.
- **Wildfires and Forest Thinning:** As discussed above, recent wildfires have taken their toll on the local River watershed, thereby increasing the likelihood of additional sediment and turbidity loading to the river. In response to the fires and watershed damage, TMWA has provided grants towards recovery and rehabilitation efforts. TMWA, through the Fund, has supported forest thinning efforts designed to reduce potential of forest fires that, as a result of sediment run-off, impact pristine water storage resources.
- **Erosion due to Past Logging Operations:** Some areas of the bi-state Truckee River watershed have been impacted by past logging practices that neglected reforestation and erosion control. As a result, some of these areas have experienced incising of tributary creeks which have impacted the River with increased sediment, suspended solids, and TDS loading. TMWA, through the Fund, has supported projects designed and constructed to restore the watershed forest to its natural state.
- **Impaired Sections of the Truckee River and its Tributaries:** In conformance with the requirements of the Clean Water Act, both the State of Nevada and State of California have developed water quality standards for the River taking into account an analysis of beneficial uses. As an outgrowth of these standards, both States have identified impaired sections of the River through establishment of 303d lists. TMWA, again through the Fund, has supported improvement projects targeting impaired sections of the River.

2013 Grants

In 2013 the Fund, with Board approval, provided grants to the following notable projects:

- A grant of \$41,300 to The Nature Conservancy for forest thinning of 120 acres at Independence Lake. The grant was matched with \$20,650 of cash and in-kind services.
- A grant of \$120,000 to the Truckee River Watershed Council for restoration of a portion of the Middle Martis Creek streambed and floodplain. The grant was matched with \$260,000 of cash and in-kind services.

Grants of \$62,865 to the City of Reno for river bank restoration along the river trail and for removal of dead and hazardous trees in the Oxbow Nature Study Area. The grant was matched with \$37,694 of cash and in-kind services.

- A grant of \$43,062 to the Tahoe Resource Conservation District for the removal of Eurasian Milfoil within the Truckee River downstream of Tahoe City. The grant was matched with \$17,355 of cash and in-kind services.
- A grant of \$45,413 to the Nevada Department of Wildlife for an aquatic invasive species public outreach program targeting the New Zealand Mud Snail found in the Truckee River. The grant was matched with \$11,355 of cash and in-kind services.
- A grant of \$115,000 to the Tahoe Resource Conservation District for continued implementation of Aquatic Invasive Prevention and watercraft inspection programs for Donner Lake, Stampede Reservoir, Boca Reservoir, and Prosser Reservoir. The grant was matched with \$72m326 of cash and in-kind services.
- A grant of \$57,050 to the “Keep Truckee Meadows Beautiful” organization for two Truckee River clean-up days in 2014. The grant was matched with \$124,540 of cash and in-kind services.
- A grant of \$400,000 to the City of Reno for a project to divert storm water pollution from entering TMWA’s Highland Canal. The grant was matched with \$263,000 of cash (via grant) and in-kind services.

Other 2013 Activities

In 2013 TMWA staff conducted a seminar concerning Aquatic Invasive Species. The seminar was open to TMWA employees, external agencies, and the general public. TMWA staff also completed a *TRF Guidance Document* which provides detailed background information concerning Truckee River water quality and watershed issues coupled with guidance to current and future TRF Advisors relative to evaluating and prioritizing grant requests.

Quick 2013 Summary

- 101 Projects Approved by TMWA Board for Funding (By Resolution) -- Total Resolution Amount to Date: \$9.2 million
- Total Match from Grantees: \$17.4 million

- Project Status and Tracking: See attached TRF Project Spreadsheet
- Public Outreach: Aquatic Invasive Species seminar conducted
- *TRF Guidance Document* completed (see attached)

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Attachments

TRF Project Spreadsheet

TRF Guidance Document



TRUCKEE RIVER FUND Project Evaluation Guidance Document May 2013

By
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Truckee Meadows Water Authority

PURPOSE

The purpose of this guidance document is to provide the Truckee River Fund Advisors, (the “Advisors”), detailed information relative to the Truckee River (the “River”). The document provides a framework or tool which the Advisors can use to evaluate future grant requests from the TRF.

This document sets forth a concise description of the watershed; information relative to Federal and State Statutes which protect the watershed from contamination and pollution; information about State and local programs having a positive impact to the River; information concerning current water quality issues affecting the river; and recommendations and guidance relative to evaluating future grant requests.

BACKGROUND

From a water quality/municipal water supply perspective, TMWA considers the TRF a vital element in its overall water quality protection program. Also, to a lesser extent, the TRF provides benefits relative to the sustainability of TMWA’s surface water resource.

There are four main elements to TMWA’s water protection program:

- A. Source water protection as it pertains to groundwater and surface water,
- B. Water Treatment to ensure that water supplies are treated to the highest level practical and in keeping with Federal and State standards,
- C. Maintenance of water quality within TMWA’s distribution system,
- D. Preservation of water quality by preventing the “backflow” of potentially contaminated water from a customer’s internal plumbing or irrigation system back into TMWA’s distribution system.

Source Water Protection

Groundwater: TMWA protects its groundwater supplies through its “State Approved” Groundwater Protection Program. A key component is an inventory of potential contaminant sources (“PCS’s”) throughout the Truckee Meadows. TMWA works with local governmental agencies with regulatory oversight of anthropogenic discharges to ensure that all regulations concerning the storage, use, transport and discharge of on-site contaminants meet all Federal, State and local requirements. Another notable element of the groundwater program is the operation of the Central Truckee Meadows Remediation District (the “CTMRD”). As part of this program, TMWA operates and maintains groundwater treatment facilities at a number of municipal wells where volatile organic chemicals must be removed. TMWA is then reimbursed by the CTMRD for the operation and maintenance costs associated with these wells. The operation provides potable water to the community as well as providing clean-up of a portion of the local groundwater aquifer.

Surface Water: With the exception of projects mandated by the U.S. Environmental Protection Agency (“EPA”), the Nevada Division of Environmental Protection (“NDEP”), or the Tahoe Regional Planning Agency (“TRPA”), prior to 2005 TMWA did not possess the ability to participate in projects designed to remediate or improve River water quality or the watershed. Since inception of the TRF, the program has evolved into an important component of TMWA’s overall water quality program. Financially, the TRF provides tremendous leverage for source water protection projects. To date, the TRF has collaborated with other non-profit organizations and governmental agencies to support 86 projects, contributing over \$8.1 million with a match of over \$15.9 million from its partners.

Federal Statutes which support groundwater and surface water protection include the Safe Drinking Water Act (“SDWA”), the Clean Water Act (“CWA”), the Resource Conservation and Recovery Act (“RCRA”), the Comprehensive Environmental Response, Compensation and Liability Act, (“CERCLA”), and, to a lesser extent, the Endangered Species Act (“ESA”). In Nevada, the Nevada Division of Environmental Protection oversees enforcement of these statutes as they pertain to Nevada waters. In California, and in regards to the Truckee River and its tributaries, the Lahontan Regional Water Quality Control Board, California Environmental Protection Agency, and TRPA have regulatory and enforcement authority. A review of these statutes follows in a subsequent section dealing with statutes and regulations.

Water Treatment

An obvious element of TMWA’s water quality protection program is the treatment of groundwater and surface water for potable use. TMWA’s treatment processes employ state-of-the-art technology for the removal of pathogens, turbidity, and chemical substances deemed detrimental to public health. Such processes include filtration and disinfection of surface water, and disinfection and the removal of arsenic and volatile organic compounds through filtration, air-stripping and disinfection of groundwater. Treatment employed by TMWA meets or exceeds drinking water standards promulgated by the USEPA and enforced by NDEP pursuant to the

federal SDWA. Detailed information concerning treatment and water quality is also made available to the public through Consumer Confidence Reports (mandated by EPA).

Distribution System Water Quality

TMWA maintains high water quality within its distribution system through a program of sampling, testing and flushing. Daily and monthly sampling and testing is accomplished through its State certified laboratory and tests are performed on a myriad of constituents as mandated by EPA through its numerous rules and regulations. A flushing program is also employed by TMWA to mitigate stagnant water in dead-end sections of the distribution system.

Backflow Prevention and Control

The final component of TMWA's water quality protection program is a backflow prevention and cross-connection control program. The purpose of the program is to prevent "backflow" of potentially contaminated water from a customer's internal plumbing or irrigation system back into TMWA's distribution system. The program requires the installation of backflow prevention assemblies on all commercial and industrial domestic services, irrigation services, fire services and on all residential irrigation systems. Backflow prevention is required of all municipal water suppliers through the Nevada Administrative Code Section 445A. Backflow prevention of residential properties is required under the Uniform Plumbing Code. The type of backflow prevention assembly is determined based upon a hazard assessment of water use on the premise.

FEDERAL STATUTES WHICH PROTECT THE TRUCKEE RIVER

Statute Evolution

In the United States attempts to deal with water pollution can be traced back to the early 1800's. Then, the emphasis was on collection systems (sewers) which were used to discharge untreated wastes into rivers and lakes. The connection between human wastes and the spread of pathogenic disease was not known. Also, because the U.S. population was quite small and dispersed, there were ample resources to assimilate human and industrial waste. A local example of this approach was the indiscriminate dumping of sawdust from lumber mills upstream of Reno on the Truckee River and the local discharge of wastes from sewers and storm drains directly into the River. Ranching and farming in the Truckee Meadows also contributed to the discharge of agricultural waste products, including pathogens and nutrients into the River.

In the early 1900's, with growing urbanization combined with acceptance of the "germ theory" relating bacteriological contamination to disease, there became an increasing public demand for wastewater and discharge management. Simply put, the old way of doing things- the indiscriminate discharging of human waste and other sources of pollution- became unacceptable. The enactment of environmental laws and regulations began.

The Clean Water Act (1972)

Along with the slowly-changing perceptions and attitudes towards the River, perhaps the most important positive water quality event for the River was the enactment of the federal Clean Water Act of 1972 (CWA). The CWA established nationwide effluent standards, a nationwide discharge permit program with effluent guidelines, and a stated goal of reducing microbiological and nutrient-based pollutants to the nation's rivers and streams.

A major facet of the CWA was a program providing federal support to local governments for the construction and upgrading of wastewater treatment plants. These "publicly owned treatment works" or "POTWs" are subject to regulation under the CWA, and must meet standards imposed under the CWA permitting system (described below). The local effect of the CWA led to the eventual decommissioning of the existing "Reno Sewage" plant (located just east of the River and adjacent to the Glendale Avenue) and the construction of a new secondary plant, TMWRF, near the Vista narrows. Initial construction and operation the TMWRF plant provided biological treatment meeting effluent standards at the time. It has since been retrofitted with nutrient removal processes allowing the Cities of Reno and Sparks to meet point discharge standards for BOD, nitrogen and phosphorus.

The CWA established the National Pollutant Discharge Elimination System, a complex permitting program for the issuance of "NPDES" permits for discharge of pollutants. The CWA prohibits "the discharge of any pollutant by any person" into waters of the United States except in compliance with the Act. Section 303(c) of the Act requires States to classify waters to determine beneficial uses (e.g., drinking water, recreation, irrigation). The States then must set standards (both "narrative" and "numeric" to protect the beneficial uses and to accomplish the goals of maintaining existing higher quality). Numerical limitations on given pollutants are established at a level determined necessary to protect the most sensitive of the designated uses for the water body. Section 303(d) then requires an inventory of waters to determine which are "impaired." This inventory is the basis for the establishment of a "Total Maximum Daily Load" ("TMDL") for specific pollutants. TMDL's are the maximum amount of a specific pollutant a water body can receive and still meet the applicable water quality standards. Setting a TMDL also requires an allocation of the sources of the pollutant, including both point-sources and non-point sources. On the basis of this determination, numerical limitations are set in individual dischargers' NPDES permits, as necessary to stay within the TMDL and maintain the water quality standards. The permitted discharger must then follow a prescribed monitoring program, including sampling, analysis, and reporting, to demonstrate continued compliance with the conditions of the permit. If the receiving water is not in compliance with the established State water quality standards, an anti-degradation policy will require the permit to include limitations as stringent, or even more stringent, than the water quality standards.

The United States EPA establishes minimum criteria necessary to meet the goals of the CWA and retains oversight over state standards; however, states may set and enforce more stringent requirements. Within the Truckee River watershed, NPDES permitting authority has been delegated by EPA to California and to Nevada. As discussed in more detail below, EPA has also accorded the Pyramid Lake Paiute Tribe status as a "state" for the development of water quality standards for waters within its reservation.

The EPA has also initiated a program to control pollution from storm water runoff that will discharge into jurisdictional waters under the NPDES program. This program allows the state to cover permittees under general permits administered by NDEP for (1) “Medium” and “large” municipal separate storm sewer systems (“MS4s”) generally serving populations of 100,000 or greater; (2) Construction activity disturbing 5 acres of land or greater; (3) Eleven categories of industrial activity (4) Small MS4s located in “urbanized areas” as delineated by the Bureau of the Census; and (5) small construction activities that disturb equal to or greater than 1 (one) and less than 5 (five) acres of land, and any other construction activity with the potential for contribution to a violation of a water quality standard or contribute significant amounts of pollutants to Waters of the United States. These permits require the operator to implement certain “Best Management Practices” to ensure that storm water runoff from the permittee’s operations does not cause an exceedance of applicable TMDLs or water quality standards.

Section 404 of the CWA was enacted to protect the significant hydrologic and environmental benefits of wetlands, not only in the protection and preservation of ecologic diversity, but also in regards to practical values such as flood control. Section 404 requires permits to be issued by U.S. Army Corps of Engineers for the discharge of dredged or fill material to wetlands that are associated with “Waters of the United States.” Since these wetlands are often located on private property, the extension of federal jurisdiction and permitting requirements to wetlands often impedes or prohibits landowners’ exercise of perceived property rights, and is often controversial. Permits are be issued by the United States Army Corps of Engineers with coincident review by other agencies such as the USFWS and NDOW.

Resource Conservation and Recovery Act (RCRA)

The Resource Conservation and Recovery Act, RCRA, applies to “active facilities” which manage or generate hazardous waste. The goal of RCRA is to reduce or eliminate the generation of hazardous waste as expeditiously as possible with land disposal being the least favored alternative. Key elements of RCRA include the following:

- Requires EPA to promulgate regulations identifying hazardous wastes, either by lists or by establishing characteristics of hazardous wastes.
- Requires EPA to establish regulations for generators of hazardous wastes including handling wastes properly and preparing manifests to track shipment of wastes to treatment, storage and disposal facilities (TSD’s).
- Requires EPA to establish regulations for transporters of hazardous waste.
- Requires EPA to develop performance standards for the operation of TSD facilities.
- Requires owners of TSD facilities to obtain permits which establish operating procedures.
- Authorizes states to assume responsibility for RCRA if state program is as stringent as EPA’s.
- Authorizes site inspections for state and federal employees.

Enactment and enforcement of RCRA has had a positive impact on the Truckee River and the nearby watershed for a number of reasons. First and foremost, the strict regulatory requirements in regard to the transport of hazardous waste and materials means that transporters must exercise

upmost care, follow exact transport procedures and regulations, and have appropriate transport permits including manifests. This is indeed important considering the I-80 and railroad corridors closely parallel the River making the river susceptible to hazardous spills. Secondly, and notwithstanding the current PCE Truckee Meadows Remediation Program, the current strict regulatory requirements concerning storage and disposal of hazardous materials lessens the likelihood of an accidental or intentional spill which could further contaminate the local aquifer. In Nevada, NDEP enforces RCRA with support from local governmental environmental enforcement departments.

The Comprehensive Environmental Response, Compensation and Liability Act, (CERCLA).

Like RCRA, CERCLA does not directly regulate water quality, but is a significant tool in the protection of water quality. The Superfund Amendments and Reauthorization Act of 1986 (“SARA”) changed CERCLA’s clean-up programs to be more regulatory in nature. SARA allows the EPA to set technology forcing standards to define the required clean-up level for sites contaminated by certain hazardous materials that are regulated under CERCLA. CERCLA imposes liability on current and past owners or operators, generators who brought wastes to a site and transporters of such waste. The potential for CERCLA liability has significantly heightened awareness of environmental compliance. Avoidance of federal enforcement of CERCLA was an important incentive in the creation of the Central Truckee Meadows Remediation District that focuses on PCE remediation of groundwater.

Endangered Species Act, ESA

Prior to 1973, there was no national policy relative to protecting fish, wildlife and plants that were faced with possible extinction due to intrusion or destruction of habitat and taking of species for consumption or economic gain. Passage of ESA was seen by Congress as a means to rectify the situation. Congress noted the following when enacting ESA.

- That various species of fish, wildlife and plants in the U.S. have been rendered extinct and others depleted to the point of being “endangered” or “threatened” with extinction.
- That depleted species have value.
- That the United States has pledged through various treaties and agreements to conserve various species.
- That the United States wanted to encourage states and private parties to develop conservation programs.

One of the immediate impacts to the Truckee River system upon implementation of the ESA was the Federal Government’s decision to use water stored in the then newly constructed Stampede Reservoir for fishery purposes. Prior to the ESA, the reservoir was intended for flood protection and a storage source of municipal water for the Reno-Sparks area. With implementation of the ESA, releases from Stampede were designated for fishery use rather than municipal and timed to coincide with spawning runs of Cui-ui, a listed endangered species inhabiting Pyramid Lake. The ESA has also been used to protect and preserve the Lahontan Cutthroat Trout (LCT). The

ESA has proven beneficial to the health of the River since the Act requires that impacts to threatened or endangered species be mitigated whenever construction or development is being considered in the River. The review and permitting process is overseen by the United States Army Corps of Engineers (USACE) and the United States Fish and Wildlife Service.

The Safe Drinking Water Act (“SDWA”)

The most significant Federal Legislation directly affecting municipal water systems in the United States was the 1974 passage of the Safe Drinking Water Act. Passage of the SDWA was spurred on in part by the detection of organic contaminants in drinking water in the United States. Since 1974, the SDWA has been amended from time to time requiring additional regulations for the control or removal of pathogens and chemical substances in drinking water. Some of the important features of the SDWA are the following:

- The SDWA is enforced by the EPA. The States can choose to implement and enforce SDWA requirements on their own, called primacy. For States that do not accept primacy, the various EPA districts provide enforcement. In Nevada, the Nevada Division of Environmental Protection enforces the SDWA with some Counties assisting with the enforcement effort.
- From the SDWA, the EPA has developed a list of National Primary Drinking Water Regulations (primary standards) for those constituents known to have adverse health effects.
- The primary standards can take the form of a prescribed maximum contaminant level (MCL) or a rule or regulation where particular treatment techniques are prescribed. Primary standards cover a range of contaminants or constituents and include microorganisms, disinfectants, disinfectant byproducts, inorganic chemicals, and radionuclides.
- The EPA has established a set of secondary standards which are not enforceable unless a particular state wishes to do so. These standards are related to the aesthetics or appearance of drinking water and are not health related. Examples of secondary standards are those set for iron and manganese, naturally occurring elements in many drinking waters.

Passage of the Safe Drinking Water Act has had a dramatic, positive impact on the operation of TMWA’s water treatment facilities. Promulgation of the Surface Water Treatment Rule (“SWTR”) in 1989 greatly increased treatment requirements for surface water. The SWTR eventually led to TMWA decommissioning three older and outdated surface water plants and replacing those plants with the Chalk Bluff Plant in northwest Reno. The SWTR also led to improvements to TMWA’s Glendale Water Treatment Plant in Sparks. The other significant impact of the SDWA (together with CERCLA), was the installation of wellhead treatment at a number of groundwater wells adversely affected with contamination from Tetrachloroethylene (PCE), a chemical used in dry cleaning operations. Treatment for PCE removal was later placed under the umbrella of the Central Truckee Meadows Remediation District, a Washoe County

Department established for the operation and funding of the PCE remediation program in the Truckee Meadows.

STATE LAWS

Nevada and California have both enacted laws giving them the requisite powers to accept delegation of CWA enforcement from the EPA. The Nevada Water Pollution Control Act regulates discharges into “waters of the state.” NRS 445A.415 defines “waters of the state” as follows:

445A.415 “Waters of the state” defined. “Waters of the state” means all waters situated wholly or partly within or bordering upon this state, including but not limited to:

1. All streams, lakes, ponds, impounding reservoirs, marshes, water courses, waterways, wells, springs, irrigation systems and drainage systems; and
2. All bodies or accumulations of water, surface and underground, natural or artificial.

The inclusion of groundwater in the definition significantly expands Nevada’s permitting authority compared with the CWA which applies to surface waters only.

Nevada also adopts an extremely broad prohibition on the discharges of pollutants. NRS 445A.465 includes a provision that makes it unlawful for “any person” to “Allow a pollutant discharged from a point source or fluids injected through a well to remain in a place where the pollutant or fluids could be carried into the waters of the state by any means.” This provision can be interpreted very broadly and is the provision that it usually cited by the Nevada Division of Environmental Protection as the authority for most enforcement actions involving soil and groundwater contamination.

California’s major water quality law is the Porter-Cologne Water Quality Control Act (Cal. Water Code, Division 7, Section 13000 et seq.)(“Porter-Cologne Act”). The Lahontan Regional Board administers the region of California encompassing Lake Tahoe and the Truckee River watershed. The Regional Boards are responsible for adopting and implementing Water Quality Control Plans (or “Basin Plans”) which set forth water quality standards and beneficial uses for waters within the Region.

TRIBAL JURISDICTION

The Clean Water Act allows Indian tribes to be treated as a state for certain purposes of the Act if the tribe meets certain criteria (33 USC § 1377, CWA § 518). To qualify for “treatment as a state” or “TAS” status, a tribe must be recognized by the Secretary of the Interior, must have governing body that carries out substantial governmental functions, and must have the demonstrated capability of carrying out the proposed regulatory actions. A tribe with TAS status

may set its own water quality standards for waters within its jurisdiction. These standards are subject to EPA approval.

Tribal water quality standards may be more stringent than state standards for the same water body and tribal water quality standards may effectively constrain upstream discharges, even if the upstream state standards are less rigid.

On January 30, 2007, the Pyramid Lake Paiute Tribe received TAS status for the purpose of administering Sections 303 and 401 of the CWA. The Tribe then developed a “Water Quality Control Plan” or “WQCP,” which was approved by the EPA in December, 2008.

RIVER/ WATERSHED DESCRIPTION

The River flows approximately 121 miles from its Lake Tahoe source eventually terminating at Pyramid Lake. The River’s source is the outlet at Lake Tahoe located in Tahoe City, California. It flows generally in a northeast direction through a ravine to Truckee California, then turns sharply to the east and flows into Nevada, through Reno and Sparks, and along the northern Carson Range of the Sierra Nevada Mountains. At Fernley it turns north, flowing along the east side of the Pah Rah Range. It finally empties into Pyramid Lake in northern Washoe County within the Pyramid Lake Paiute Indian Reservation.

The River’s drainage basin is about 3,000 square miles of which 2,300 square miles are within Nevada. The Middle Watershed is approximately 15 miles in length of river and tributaries and extends from Tahoe City through the town of Truckee in Nevada County, and then to the state line between Sierra and Washoe County. Major California tributaries to the River include: Bear Creek, Squaw Creek, Cabin Creek, Pole Creek, Donner Creek, Trout Creek, Martis Creek, Prosser Creek, the Little Truckee River, Gray Creek, and Bronco Creek. Tributaries in Nevada include Dog Creek, Mogul Creek, Hunter Creek, Chalk Creek and Steamboat Creek. Major lakes and reservoirs on the system include Lake Tahoe, Donner Lake, Independence Lake, Webber Lake, Stampede Reservoir, Boca Reservoir, Prosser Creek Reservoir, Martis Creek Reservoir, and Washoe Lake.

Since the early 1900’s many modifications have been made to the Truckee River System which have resulted in a highly regulated and diverted river system prone to much litigation. Modifications of note include the Tahoe City Dam, Derby Dam (with diversions to the Truckee Carson Irrigation District (“TCID”), Donner Lake Dam, Stampede Dam and Reservoir, Boca Dam and Reservoir, Prosser Creek Dam and Reservoir, Martis Creek Dam and Reservoir, and Washoe Lake Dam. The Truckee River Operating Agreement (“TROA”) is an outgrowth of this litigation and a settlement agreement between the Pyramid Lake Paiute Tribe, Sierra Pacific Power Company was ratified by Congressional act. TROA is intended to provide the framework, rules and procedures for the operation of the Truckee River Reservoirs and Independence and Donner Lakes, and for the management of flows in the Truckee River to meet the requirements of the water rights holders and implement the interstate allocation between California and Nevada of the waters of the Lake Tahoe and Truckee River Basin. On-going litigation is delaying the final implementation of TROA.

Many of the issues affecting the River today stem in part from the highly regulated operation of upstream storage and river flows and from past practices that have significantly affected the hydrologic character of the river. Many of the recent restoration projects on the river- particularly those downstream- have been designed to help restore the original nature of the river as much as possible.

CURRENT ISSUES AFFECTING THE TRUCKEE RIVER

Major water quality and watershed issues facing the Truckee River, its tributaries and watershed include the following:

- **Aquatic Invasive Species:** The introduction and proliferation of invasive species, both terrestrial and aquatic, is a major concern to TMWA. Aquatic Invasive species pose the threat of jeopardizing TMWA's treatment operations and dramatically increasing the costs of treatment operations. In Southern Nevada, the quagga mussel has become firmly established in Lake Mead. As a result, the Southern Nevada Water Authority ("SNWA") has implemented an intensive monitoring and control strategy. The control portion included the addition of new chlorine injection points along raw water pipelines at a cost of \$5 million with annual operating costs of \$1-4 million. Should quagga mussels ever gain a foothold in the Truckee River System, the consequences could be quite severe. Besides the ecological damage which would impact the pristine nature and reputation of Lake Tahoe, TMWA could be faced with expensive improvements and operating costs to deal with fouling of water supply canals, intakes and pipelines serving the treatment facilities and run-of-the-river hydroelectric plants. Other species of concern include Eurasian Milfoil and the Asian Clam. Because of these concerns, TMWA supports prevention and control programs relative to AIS for all Truckee River water bodies.
- **Terrestrial or Land-Based Invasive Species:** TMWA considers the spread of terrestrial invasive species as a threat to River quality and treatment operations. Such invasive species crowd out native vegetation needed to protect river banks and upland areas from erosion which, left unchecked, can increase suspended solids and total dissolved solids (TDS) concentrations in the River. Because of these concerns, TMWA supports prevention and control programs associated with terrestrial invasive species.
- **Urbanization of Local Watershed:** Recent development in the Truckee Meadows has led to a degradation of local tributaries to the Truckee River via irrigation run-off and storm water discharges. The tributaries of major concern include Chalk and Mogul Creeks, both being upstream of the Chalk Bluff Treatment Plant. This situation has led to increased sediment, TDS and turbidity loading to the Chalk Bluff Plant and its raw water delivery systems. Because of these concerns, TMWA supports projects and programs that will mitigate water quality and storm water control issues associated with tributaries.

- **Recent Wildfires and Forest Thinning:** Recent wildfires have taken its toll on the local River watershed, thereby increasing the likelihood of additional sediment and turbidity loading to the River. In response to the fires and watershed damage, TMWA has provided TRF grants towards recovery efforts in order to mitigate adverse impacts to the River. TMWA supports such recovery and rehabilitation efforts. TMWA will also support forest thinning efforts designed to reduce potential for forest fires.
- **Erosion Due to Past Logging Operations:** Some areas of the watershed have been impacted by past logging practices that neglected reforestation and erosion control. As a result, some of these areas have experienced incising of tributary creeks which have impacted the river with increased sediment, suspended solids, and TDS loading. TMWA supports efforts to restore the watershed forest to its natural state.
- **Impaired Sections of the Truckee River and its Tributaries:** In conformance with the requirements of the Clean Water Act, both the State of Nevada and the State of California have developed water quality standards for the River taking into account an analysis of beneficial uses. As an outgrowth of these standards, both states have identified impaired sections of the River and its tributaries through the establishment of 303d lists. These lists identify constituents that are adversely impacting the river system. For the most part the constituents of concern for the River include suspended solids and TDS for upper reaches and suspended solids, TDS, and nutrients for lower River reaches. TMWA supports water quality improvement projects targeting impaired reaches of the river.

EXISTING PROGRAMS/AGENCIES/ORGANIZATIONS PROTECTING AND IMPROVING TRUCKEE RIVER WATER QUALITY AND WATERSHED HEALTH

Nevada Division of Environmental Protection

The Nevada Division of Environmental Protection (“NDEP”), a division within the Nevada Department of Conservation and Natural Resources, through its enforcement of the Clean Water Act, is the environmental watch dog of the Truckee River. The River is protected by water quality standards that are based on beneficial uses of the River, including municipal water use. As part of the standards process, the 303d list of impaired sections of the River provides a tool for River advocates relative to planning, designing and constructing water quality and watershed improvements. The State of California and the Lahontan Regional Water Quality Control Board provides a similar function for those portions of the Truckee River located in California. TMWA supports the watchdog role of NDEP and similar agencies in California.

Tahoe Regional Planning Agency (“TRPA”)

The goal of TRPA is to maintain the clarity of Lake Tahoe to near pristine levels. In order to accomplish this goal, this bi-state agency has been given extraordinary powers relative to Tahoe Basin regional planning and development including the power to set building standards and issue building permits. The net result of TRPA’s actions from a water quality perspective is very positive for TMWA in as much as a very significant portion of TMWA’s raw water comes from

Lake Tahoe. Recently TRPA also became very proactive with implementation of a very aggressive Aquatic Invasive Species program. The program includes a mandatory watercraft inspection and decontamination program which has been extremely helpful in preventing AIS from getting into TMWA intakes. TMWA is supportive of TRPA's water quality programs helping to preserve the clarity of Tahoe waters.

The Pyramid Lake Paiute Tribe ("PLPT")

As noted above, the PLPT adopted a Water Quality Control Plan for waters within its jurisdiction, approved by the USEPA. The Tribe has adopted a comprehensive water quality monitoring program, and is engaged in various river restoration and wetland protection programs. TMWA supports these efforts and encourages more coordination with tribal programs.

The Nature Conservancy ("TNC")

The Nature Conservancy ("TNC") is a national non-profit engaged in the preservation and restoration of ecologically sensitive lands. Locally the TNC has been extremely proactive in the Truckee River watershed. Local projects The TNC has engaged in include the following:

1. Independence Lake: In 2010 The TNC purchased the watershed lands surrounding Independence Lake, an important drought-protection surface water source for TMWA. With this purchase the TNC will prevent the property from being commercially developed, thereby removing the potential water quality degradation of this vital resource. Along with the land purchase, the TNC has developed and implemented recreation and forest management plans for the area, including a forest thinning program to reduce fire threats and a restrictive watercraft program eliminating the possibility of AIS from entering the water body.
2. Lower Truckee River: The TNC has completed several river restoration projects on the River downstream of Reno-Sparks. These projects have restored several damaged reaches of the river, improving river biology and riparian habitat along the river.

TMWA supports the TNC's efforts in protecting and restoring ecologically damaged sections of the River.

Tahoe Resource Conservation District ("TRCD")

The Tahoe Resource Conservation District ("TRCD") is a regional non-profit engaged in restoration and conservation projects in the Tahoe Truckee area. As such, the agency frequently collaborates with the TRPA on projects. More recently, the TRCD collaborated with the TRPA on the implementation of the AIS program at Lake Tahoe. It is currently very much engaged in the final implementation of AIS programs for upstream reservoirs that serve TMWA and the Reno-Sparks community. TMWA supports these efforts.

Truckee River Watershed Council

The Truckee River Watershed Council is a Truckee-based non-profit organization engaged in programs and projects benefiting the River in the Donner-Truckee area. The organization collaborates and manages conservation projects including restoration of forest and creek habitat damaged by historical logging operations. TMWA supports the efforts of this organization.

Nevada Land Conservancy

The Nevada Land Conservancy is a locally based non-profit engaged in restoration projects for the Truckee River watershed in the local Reno-Sparks area. Recently this organization has been proactive in the coordination of restoration of areas devastated by local wildfires, including the Hawken Fire, Caughlin Fire and Washoe Drive Fire. The organization also manages programs for the control of terrestrial invasive species (invasive weeds). TMWA supports the efforts of this organization.

University of Nevada Cooperative Extension-Weed Coordinating Group

The Truckee Meadows Weed Coordinating Group, often in collaboration with the Nevada Land Conservancy, coordinates local programs for the control and monitoring of invasive land based weeds along the River corridor. The Group has developed a master plan which can be used to prioritize control and monitoring activities. TMWA supports the efforts of this organization.

Truckee Meadows Storm Water Coordinating Committee

This committee, established between inter-local agreement between the Cities of Reno, Sparks, and Washoe County has been proactive in promoting advances in storm water control and techniques and methods to improve storm water quality prior to discharge into the Truckee River. The committee has contributed to the formulation of low-impact development standards for the minimization of storm water run-off and the *Field Contractors Guide for Construction Site Best Management Practices*. In addition, on their own the two cities and Washoe County have completed projects supported by the TRF relative to storm water quality improvement in tributary creeks and main stem River. TMWA supports the work of this committee.

Keep Truckee Meadows Beautiful

The Keep Truckee Meadows Beautiful organization, a local non-profit, has been instrumental in the coordination and management of annual Truckee River Clean-Up Days. These events help keep the River corridor clean and increase environmental stewardship and awareness of our River.

RECOMMENDATIONS AND GUIDANCE – FUTURE TRF SUPPORTED PROJECTS AND PROGRAMS

In presenting recommendations and guidance to the Advisors relative to evaluation of future grant requests, TMWA recognizes the following concerning the Truckee River:

- **Anthropogenic Impacts:** TMWA recognizes that growth and development of land in the Truckee River watershed can contribute negative effects on water quality and the watershed. TMWA also recognizes that recent efforts to remediate and protect the River have had a positive impact to river health. These efforts include efforts to restore downstream reaches of the river to a more or less natural state in order to reduce flood impacts and to improve overall river health.
- **Impact of Environmental Regulations:** TMWA believes that enactment and implementation of federal environmental statutes has had a positive effect to the overall health of the Truckee River and its associated watershed. Most of the regulatory programs in place today that protect the River come from the federal statutes cited earlier in this document.
- **River Connectivity:** TMWA recognizes the connectivity of the Truckee River in that any negative activity affecting a reach of the River may manifest negative consequences to other reaches of the River, both downstream and upstream.
- **River Health and Impact to Regional Economy and Quality of Life:** TMWA's mission is to provide potable water meeting all water quality standards in the most efficient, economical way possible. However, TMWA also rigorously supports protection of other beneficial uses of the River system, including recreational opportunities afforded by the River. TMWA understands that support of the River's beneficial uses is important to the overall economic vitality of the region.
- **Stewardship and Support from Non-Profit Organizations:** TMWA recognizes that personal and group stewardship of the River is important in protecting the future health of the River. TMWA supports the development and implementation of educational programs in this effort and also supports non-profits relative to projects and programs that protect or remediate the River and watershed.

Guidelines for Evaluating Grant Requests

Based upon the aforementioned discussion, TMWA recommends that the Advisors give preference to well-prepared and thought out grant requests for projects and programs that mitigate substantial threats to water quality and the watershed, particularly those threats upstream or nearby treatment and hydroelectric plant intakes:

- **Aquatic Invasive Species (AIS):** Projects/Programs that support the prevention or control of aquatic invasive species in the main stream Truckee River, Lake Tahoe, other tributaries and water bodies in the Truckee River system.
- **Watershed Improvements:** Projects that reduce erosion or sediment, suspended solids, or TDS discharges to the River. Projects or programs that are located within 303d (impaired waters) sections of the River should be considered, both in California and Nevada. Innovative techniques should be encouraged.
- **Local Stormwater Improvements:** Projects that are well designed which mitigate storm water run-off due to urbanization of the local watershed. Priority should be given to those improvement projects in close proximity to TMWA's water supply intakes and canals and which will improve the reliability and protect the quality of the community's municipal water supply.
- **Re-Forestation and Re-Vegetation Projects:** Projects to restore forest and upland areas damaged by fire and historical logging operations. 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.
- **Support to Rehabilitation of Local Tributary Creeks and Drainage Courses:** Practical projects to support water quality improvement in Gray Creek, Bronco Creek, Mogul Creek, Chalk Creek, Steamboat Creek and the North Truckee Drain.
- **Stewardship and Environmental Awareness:** Support to Clean-Up programs and the development and implementation of educational programs relative to water, water quality and watershed protection.
- **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.
- **Leverage Stakeholder Assets and Participation:** Projects/Program selection should include an assessment of various stakeholder interests in all aspects of river water quality, watershed protection, source water protection and species enhancement thereby leveraging available funds and other assets.

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| 1 | | | | | | | | | | | | | | | | | | |
| 2 | | Category | Project Complete? | Proposal Date | Grantee | Grant Description | Project Manager Name | Project Manager Phone | Project Manager Email | Funded | Committee Member Assigned | Proposal Amount | Resolution Amount | Gift Received to Fund | Source | Match - Monetary | Match - In Kind | Match total |
| 3 | 1 | | Yes | Dec-05 | Champions of the Truckee River | Living River Flood Alternative Community Education and Outreach | Elisa Maser | 775.762.6141 | emaser@charter.net | 1 | | \$ 24,000.00 | \$ 24,000.00 | \$1,007,684.00 | TMWA | \$ 7,200.00 | \$ 12,000.00 | \$19,200.00 |
| 4 | 2 | | Yes | Dec-05 | City of Reno | Chalk Creek TDS Loading to Truckee River Study: Possible TDS mitigation and pollution trade for TMWRF on Truckee River TDS TMDL. (Weir) | Terri Svetich | 775.334.3314 | SvetichT@ci.reno.nv.us | 2 | | \$ 25,000.00 | \$ 25,000.00 | \$ 100.00 | Jeff Tissier | | \$ 8,216.00 | \$8,216.00 |
| 5 | 3 | | n/a | Dec-05 | City of Reno | Watershed Coordination and Education Outreach for Storm Water Permits program | Terri Svetich | 775.334.3314 | SvetichT@ci.reno.nv.us | no | | \$ 24,800.00 | | | | | | |
| 6 | 4 | | Yes | Dec-05 | Environmental Leadership | Truckee River Clean-up Day | Christi Cakiroglu | 775.851.5185 | christi@beautiful.reno.nv.us | 3 | | \$ 9,402.50 | \$ 9,402.50 | | | \$ 3,167.50 | \$ - | \$3,167.50 |
| 7 | 5 | | n/a | Dec-05 | Nature Conservancy / Truckee River Yacht Club | Truckee River Science to Policy and Forum Phases 1 & 2 | Susan Lynn | 775.786.9955 | sblynn@sbcglobe.net | no | PROPOSAL WITHDRAWN BY APPLICANT | | | | | | | |
| 8 | 6 | | Yes | Dec-05 | Rainshadow Community Charter High School | Students Follow the River: Truckee River Restoration and Documentation Project | Stephen tchudi | 775.322.5566 | Stchudi@msn.com | 4 | | \$ 4,585.00 | \$ 7,500.00 | | | \$ - | \$ 2,160.00 | \$2,160.00 |
| 9 | 7 | | n/a | Dec-05 | University of Nevada, Reno | Snapshot Day 2006 | Leslie Allen | 775.832.4150 | allenl@unce.unr.edu | no | | \$ 24,015.00 | | | | | | |
| 10 | 8 | | n/a | Dec-05 | University of Nevada, Reno | The Intermountain Regional Research Facility Project | Jean Carbon | 775.784.4390 | carbon@unr.edu | no | | \$ 100,000.00 | | | | | | |
| 11 | 9 | | n/a | Dec-05 | University of Nevada, Reno | Glendale Diversion Fish Passage Assessment - Phase 1 Project | Sudeep Chandra | 775.784.6221 | sudeep@cabnr.unr.edu | no | | \$ 25,000.00 | | | | | | |
| 12 | 10 | | Yes | Jun-06 | City of Reno | Watershed protection for the drinking water source of the Chalk Bluff Water Treatment Plant | Terri Svetich | 775.334.3314 | SvetichT@ci.reno.nv.us | 5 | Bill | \$ 211,000.00 | \$ 211,000.00 | \$ 150.00 | Olsen & Associates | \$ 35,000.00 | \$ 26,500.00 | \$61,500.00 |
| 13 | 11 | B | Yes | Jun-06 | City of Reno | Lower Steamboat Creek Restoration/Stabilization | Mahmood Azad | 775.334.3311 | azadm@ci.reno.nv.us | 6 | Michael | \$ 156,000.00 | \$ 86,000.00 | \$ 50.00 | Dirk Cockrum | \$ 80,000.00 | \$ 35,000.00 | \$115,000.00 |
| 14 | 12 | d | n/a | Jun-06 | City of Reno | Reach "Y" Tree Planting | Mahmood Azad | 775.334.3311 | azadm@ci.reno.nv.us | no | | \$ 250,000.00 | \$ - | | | | | |

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| 15 | 13 | b | Yes | Jun-06 | City of Reno | Urban Storm Water Quality Improvements | Terri Svetich | 775.334.3314 | SvetichT@ci.reno.nv.us | 7 | Tom | \$ 66,000.00 | \$ 66,000.00 | | | \$ 150,000.00 | \$ - | \$150,000.00 |
| 16 | 14 | | n/a | Jun-06 | Great Basin Institute/Nevada Conservation Corps | Truckee River Invasive Plant Mapping and Eradication Project | Jonas Mason | 775.784.1192 | masonj@unr.edu | no | | \$ 74,395.80 | | | | | | |
| 17 | 15 | | Yes | Jun-06 | Keep Truckee Meadows Beautiful | Truckee River Clean-up Day | Christi Cakiroglu | 775.851.5185 | christi@beautiful.reno.nv.us | 8 | Susan | \$ 13,175.00 | \$ 13,175.00 | | | \$ 6,627.60 | \$ 24,367.50 | \$30,995.10 |
| 18 | 16 | | n/a | Jun-06 | Recreation Education Outdoors | Tahoe-Truckee Pyramid Regional Education Project | Les Smith | 775.830.7334 | lsmith@ndow.org | no | | \$ 150,000.00 | | | | | | |
| 19 | 17 | | n/a | Jun-06 | Recreation Education Outdoors | Truckee River Recreational Access Project | Les Smith | 775.830.7334 | lsmith@ndow.org | no | | \$ 400,000.00 | | | | | | |
| 20 | 18 | | Yes | Jun-06 | Truckee River Watershed Council | This Drains to the Truckee River Storm Drain Stenciling Pilot Project | Lisa Wallace | 530.550.8760 | wallace@truckeeriverwc.org | 9 | | \$ 9,300.00 | \$ 9,300.00 | | | \$ - | \$ 3,380.00 | \$3,380.00 |
| 21 | 19 | | Yes | Jun-06 | Truckee River Yacht Club as Fiscal Agent for Nevada Dept. of Conservation and Natural Resources | Snapshot Day 2006 | Mary Kay Riedl | 775.687.9454 | mriedl@ndep.nv.gov | 10 | Jerry | \$ 6,605.00 | \$ 6,605.00 | | | \$ 4,100.00 | \$ 15,342.00 | \$19,442.00 |
| 22 | 20 | | Yes | Jun-06 | U.S. Fish & Wildlife Service | Assessment of Petroleum Impacts to the Truckee River from Direct Stormwater Discharges | Robert D. Williams | 775.861.6300 | bob_d.williams@fws.gov | 11 | Mike | \$ 30,840.00 | \$ 30,840.00 | | | \$ - | \$ 14,750.48 | \$14,750.48 |
| 23 | 21 | c | Yes | Jun-06 | University of Nevada, Reno | Low Impact Development (LID) Demonstration and Storm Water Retention for the New Student Union at UNR | Michael W. Collopy | 775.784.8262 | mcollopy@unr.edu | 12 | Susan | \$ 50,000.00 | \$ 34,483.00 | | | \$ - | \$ 15,517.00 | \$15,517.00 |
| 24 | 22 | | n/a | Jun-06 | Washoe County | McCarran Ranch: Outdoor Education and Interpretive Signage Site Planning | Lynda Nelson | 775.828.6642 | lnelson@washoecounty.us | no | | \$ 30,780.00 | | | | | | |
| 25 | 23 | | n/a | Jul-06 | Ecosystem Sciences Foundation | Truckee River Education and Outreach Program | Tim Maguire | 208.383.0226 | tmaquire@ecosystemsciences.com | no | | \$ 100,000.00 | | | | | | |

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| 26 | 24 | | n/a | Jul-06 | Placer County Department of Public Works | Interstate Storm Water Flow Mitigation Project at Brockway/Crystal Bay | Dave Vaccarello | 530.581.6233 | dvaccare@placer.ca.gov | NO | APPLICATION RECEIVED LATE | \$ 79,800.00 | | | | | | |
| 27 | 25 | c | Yes | Jul-06 | University of Nevada, Reno | Bioavailability of dissolved organic nitrogen originating from natural sources and wastewater in effluent in the Truckee River | Robert G. Qualls | 775.327.5014 | qualls@unr.edu | 13 | Mike | \$ 81,093.00 | \$ 81,093.00 | \$ 250.00 | Thomas Sykes | \$ 20,334.00 | \$ - | \$20,334.00 |
| 28 | 26 | | Yes | Nov-06 | Great Basin Institute/Nevada Conservation Corps | Truckee River White Top Eradication Project at Mogul and Steamboat Creeks | Jerry Keir | 775.784.1231 | keir@unr.edu | 14 | Jerry | \$ 13,692.70 | \$ 13,692.70 | | | \$ 5,428.80 | \$ 325.00 | \$5,753.80 |
| 29 | 27 | | Yes | Nov-06 | Keep Truckee Meadows Beautiful | Truckee River Clean-Up Day 2007 | Christi Cakiroglu | 775.851.5185 | christi@beautiful.reno.nv.us | 15 | Susan | \$ 24,730.00 | \$ 24,730.00 | | | \$ 8,248.70 | \$ 24,405.00 | \$32,653.70 |
| 30 | 28 | a | Yes | Nov-06 | City of Reno Public Works | Restoration of Riparian Vegetation in a Channel at Sapphire Ridge in the Chalk Creek Sub Watershed | Terri Svetich | 775.334.3314 | SvetichT@ci.reno.nv.us | 16 | Bill | \$ 18,375.00 | \$ 18,375.00 | | | | \$ 6,125.00 | \$6,125.00 |
| 31 | 29 | d | Yes | Feb-07 | City of Reno Public Works | Chalk Creek Watershed Management for Water Quality to minimize Non-Point Source Pollution from Reaching the Truckee River | Terri Svetich | 775.334.3314 | SvetichT@ci.reno.nv.us | 17 | Bill | \$ 250,000.00 | \$ 250,000.00 | \$1,000,000.00 | TMWA | | \$ 62,500.00 | \$62,500.00 |
| 32 | 30 | b | Yes | Feb-07 | City of Reno Public Works | Downtown Eco-Channel Construction | Mahmood Azad | 775.334.3311 | azadm@ci.reno.nv.us | 18 | GRANT NOT ACCEPTED DUE TO CITY COUNCIL | \$ 370,000.00 | \$ 370,000.00 | | | \$ - | \$ - | \$0.00 |
| 33 | 31 | | n/a | Feb-07 | Truckee River Yacht Club as fiscal sponsor for Wallace-Kuhl & Associates | Chalk Creek NPS Abatement | Erik Ringelberg | 916.372.1434 | erikringelberg@Wallace-Kuhl.com | NO | | \$ 103,809.00 | | | | | | |
| 34 | 32 | | Yes | Jun-07 | Champions of the Truckee River | Truckee River Flood Management Project - Living River EIS Review | Elisa Maser | 775.762.6141 | emaser@charter.net | 19 | PROPOSAL WITHDRAWN BY APPLICANT | \$ 35,850.00 | \$ 35,850.00 | \$ 2,289.00 | Truckee Meadows Growth Management Taskforce | | | |
| 35 | 33 | a | Yes | Jun-07 | Great Basin Institute/Nevada Conservation Corps | Rancho San Rafael Wetland Enhancement and Water Quality Enhancement | Grant Nejedlo | 775.784.1192 | gnejedlo@unr.edu | 20 | Daryl | \$ 15,963.45 | \$ 15,963.45 | | | \$ 8,373.60 | \$ 279.40 | \$8,653.00 |

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| 36 | 34 | | n/a | Jun-07 | Pyramid Lake Paiute Tribe | Truckee River Noxious Weed Control Program | Fannie Ely | 775.574.0101x34 | fely@plpt.nsn.us | 21 | Grant returned due to staffing. | \$ 11,600.00 | \$ 11,600.00 | | | | | |
| 37 | 35 | | Yes | Jun-07 | Rainshadow Community Charter High School | The Rainshadow Effect: Water Issues - Local to Global | Carol White | 775.322.5566 | carol@rainshadowcchs.org | 22 | Susan | \$ 20,000.00 | \$ 10,000.00 | | | \$ 1,000.00 | \$ 5,418.85 | \$6,418.85 |
| 38 | 36 | f | Yes | Jun-07 | Tahoe Regional Planning Agency | Invasive Aquatic Species Integrated Management Strategy | Dennis Zabaglo or Kathy Tomsak | 775.589.5255 or 775.589.5279 | dzabaglo@trpa.org | 23 | Tom | \$ 50,000.00 | \$ 50,000.00 | | | | \$12,500.00 | \$12,500.00 |
| 39 | 37 | d | Yes | Jun-07 | Washoe County Department of Water Resources | Truckee River water Quality Protection and Enhancement Project through connection of the River Oaks Subdivision to the Lawton-Verdi Wastewater Interceptor | John Nelson | 775.954.4613 | jnelson@washoecounty.us | 24 | Jerry | \$ 441,000.00 | \$ 292,495.00 | | | \$ 589,600.00 | | \$589,600.00 |
| 40 | 38 | f | Yes | Aug-07 | Nevada Land Conservancy | Hawken Fire Restoration Effort | Sonya Hem | 775.851.5180 | sonya@nvlc.org | 25 | Michael | \$ 100,000.00 | \$ 100,000.00 | | | \$ 85,000.00 | \$ 7,508.00 | \$92,508.00 |
| 41 | 39 | f | Yes | Sep-07 | Nevada Land Conservancy | Hawken Fire Restoration Effort | Sonya Hem | 775.851.5180 | sonya@nvlc.org | 26 | Michael | \$ 189,989.00 | \$ 189,989.00 | | | \$ 135,111.00 | \$ 7,508.00 | \$142,619.00 |
| 42 | 40 | e | Yes | Nov-07 | Keep Truckee Meadows Beautiful | Truckee River Cleanup Day 2008 | Christi Cakiroglu | 775.851-5185 | christi@beautiful.reno.nv.us | 27 | Susan Sue | \$ 25,604.85 | \$25,604.85 | | | \$4,244.15 | \$32,205 | \$36,449.15 |
| 43 | 41 | d | Yes | Nov-07 | Great Basin Institute/Nevada Conservation Corps | Truckee River Invasive Plant Eradication & Restoration Demonstration Project | Jerry Keir | 775-784-1192 | keir@unr.edu | 28 | Michael | \$134,396 | \$134,396 | | | | \$68,360 | \$68,360.00 |
| 44 | 42 | f | Yes | May-08 | Nevada Land Conservancy | Hawken Fire Weed Monitoring, Treatment, and Reseeding | Sonya Hem | 775-851-5180 | sonya@nvlc.org | 29 | Michael | \$28,900 | \$28,900 | | | \$7,271 | | \$7,271.00 |

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| 2 | | | | | | | | | | | | | | | | | | |
| 45 | | 43 | a | n/a | Jun-08 | Washoe County Sheriff's Office | Washoe County Sheriff's Office Community Work Program Inmate and community service work crews cleaning, maintaining, and providing specified services within Washoe County on public property. | Valerie Moser | 775-328-2884 | vmoser@washoecounty.us | no | \$ 80,822.00 | | | | - | - | - |
| 46 | | 44 | d | Yes | Jun-08 | Washoe County Department of Water Resources | Mayberry Ranch Estates River Water Quality Improvement Project Use grants acquired from TRF to encourage homeowners to connect to the existing sewer and abandon their septic systems. | Joe Stowell | 775-954-4649 | jstowell@washoecounty.us | 30 | Becky (was Trish after Jason) | \$ 229,500.00 | \$229,500 | | \$895,163.91 | | \$895,163.91 |
| 47 | | 45 | f | Yes | Jun-08 | City of Sparks | Pioneer Dam Modification City of Sparks as lead agency for modification of existing facility to mitigate negative impacts of Pioneer Dam diversion struction and enhance water resources of the Truckee River. | Shawn Gooch | 775-353-7824 | sgooch@cityofsparks.us | 31 | Ron | \$250,000 | \$250,000 | | \$294,000 | \$60,000 | \$354,000.00 |

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| 2 | | | | | | | | | | | | | | | | | | | |
| | | 46 | a | Yes | Jun-08 | Nevada Land Conservancy | 2008-09 Weed Treatments & Revegetation: Truckee River & Tributaries Facilitate weed control in Truckee Meadows as identified by Truckee Meadows Cooperative Weed Management Group's 2008 Action Plan; improving stabilization and decreasing erosion and sediment by protecting native habitat and restoring riparian areas. | Becky Stock | 775-851-5180 | becky@nvlc.org | 32 | John | \$112,500 | \$112,500 | | | \$30,000 | - | \$30,000.00 |
| 48 | | | | | | | | | | | | | | | | | | | |
| | | 47 | e | Yes | Jun-08 | Truckee Donner Land Trust | TDLT Truckee River Riparian Parcel Conservation Improvements and restoration specifically to riparian parcels held under a permanent conservaiton easement--general cleanup, debris removal, slope stabilization, signage. | John Svahn (swan), ext 4 (Sara Taddo is no longer there 11/2/09) | 530-582-4711 | john@tdlandtru st.org | 33 | Trish | \$7,500 | \$7,500 | | | - | \$16,100 | \$16,100.00 |
| 49 | | | | | | | | | | | | | | | | | | | |

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| 50 | 48 | d | Yes | Jun-08 | City of Reno Public Works | Truckee River Watershed Map Web Tool Create inspired new Web-based watershed pages to compliment existing web efforts, in describing local watershed, and interconnectedness within and reliance upon the watershed. | Lynell Garfield | 775-334-3395 | GarfieldL@ci.reno.nv.us | 34 | John | \$80,000 | \$80,000 | | | - | \$20,000 | \$20,000.00 |
| 51 | 49 | a,c,d | cancelled | 6/1/2008 ; resubmitted 8/1/2008 | Washoe-Storey Conservation District | Crane Ditch Cleanup Demonstration Project-- Curti Ranch LID & PCSC Retrofit addresses known problems in and around the segment of Crane Ditch that travels through and around Curti Ranch Units 3-9 between Highway 342 and Steamboat Ditch. | Andi Kemmerer | 775-322-9934 | andigrant@hotmail.com | 35 | Jerry | \$50,000 | \$50,000 | | | | \$27,375 | \$27,375.00 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | R | S | T |
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| 2 | | Category | Project Complete? | Proposal Date | Grantee | Grant Description | Project Manager Name | Project Manager Phone | Project Manager Email | Funded | Committee Member Assigned | Proposal Amount | Resolution Amount | Gift Received to Fund | Source | Match - Monetary | Match - In Kind | Match total |
| 52 | 50 | a | Yes | Jun-08 | The Nature Conservancy | Independence Lake Forest Management Planning Develop a forest management plan.--supports land management actions to protect lake quality against threat of catastrophic forest fires and resulting erosion. | Mike Conner | 916-449-2850 | mconner@tn.c.org | 36 | John | \$39,668 | \$39,668 | | | - | \$14,760 | \$14,760.00 |
| 53 | 51 | c | Yes | Jun-08 | The Nature Conservancy | Independence Lake Public Access Management Planning Develop compatible public access management plan--support land management actions that will protect Independence Lake quality against threat of incompatible public use and recreation of lake and lands. | Mike Conner | 916-449-2850 | mconner@tn.c.org | 37 | John | \$45,510 | \$45,510 | | | - | \$26,445 | \$26,445.00 |
| 54 | 52 | a | yes | Aug-08 | City of Reno | Oxbow Park Bank Stabilization Pursue restoration and protection of the Truckee River within the City's Oxbow Park property | Glen Daily | 775-334-2206 | daily@ci.reno.nv.us | 38 | Bill | \$207,750 | \$207,750 | | | | \$69,250 | \$69,250.00 |
| 55 | 53 | a | Yes | Nov-08 | Pyramid Lake Paiute Tribe | Aleck Streambank Restoration Improvements to streambank adjacent to agricultural lands. To protect banks from shearing from future flooding. Implementation: January 2009. | John Mosley | 775-574-0101 ex 13 | jmosley@plpt.nsn.us | 39 | Michael | \$75,000 | \$75,000 | | | | \$130,000 | \$130,000.00 |

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| | | Category | Project Complete? | Proposal Date | Grantee | Grant Description | Project Manager Name | Project Manager Phone | Project Manager Email | Funded | Committee Member Assigned | Proposal Amount | Resolution Amount | Gift Received to Fund | Source | Match - Monetary | Match - In Kind | Match total |
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| 56 | | 54 | n/a | Nov-08 | Nevada Department of Conservation and Natural Resources | 5th Annual Snapshot Day (2009) Snapshot Day monitors 119 sites within the Tahoe Basin & Truckee River watersheds. Water quality samples are taken; site locations are selected to gain information on restoration projects. | Mary Kay Riedl | 775-687-9454 | mriedl@ndep.nv.gov | NO | | \$6,415 | | | | | | |
| 57 | | 55 | n/a | Nov-08 | Truckee River Watershed Council | Adopt-A-Stream. Keeping an Eye on the Truckee River Continuation of existing Adopt-A-Stream program in 2009 by supporting program manager, equipment and supplies, lab analysis, and volunteer retention/recruitment/training . | Lisa Wallace | 530-550-8760 | lw Wallace@truckeriverwc.org | NO | | \$17,000 | | | | | | |
| 58 | | 56 | d yes | Nov-08 | Tahoe Regional Planning Agency | invasive Aquatic Species Integrated Management Strategy Funding for approximately 8 boat inspectors to staff boat ramp facilities, and funding to install gates at three public boat ramps. | Ted Thayer | 775-589-5301 | tthayer@trpa.org | 40 | Tom | \$118,000 | \$118,000 | | | \$28,000 | \$1,500 | \$29,500.00 |

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| 2 | | Category | Project Complete? | Proposal Date | Grantee | Grant Description | Project Manager Name | Project Manager Phone | Project Manager Email | Funded | Committee Member Assigned | Proposal Amount | Resolution Amount | Gift Received to Fund | Source | Match - Monetary | Match - In Kind | Match total | |
| 59 | 57 | | n/a | Nov-08 | Board of Regents NSHE | Identifying Non-Point Sources of Nutrients to the Truckee River from Groundwater in the Verdi/Mogul Area Project seeks to identify potential non-point sources of nutrients in groundwater by evaluating a large spatial array of monitoring wells for nutrient concentrations. Data will be used to help delineate hydraulic connectedness and mixing of groundwater in the Verdi/Mogul area with Truckee River surface water. | Ryan Banta | 775-673-7442 | ryan.banta@dri.edu | no | | \$68,428 | - | | | | | | |
| 60 | 58 | a | Yes | Nov-08 | Washoe County Sheriff's Office | WCSCO Community Work Program-Truckee River Restoration Projects-Weed Control Provide inmate and community service work crews 30-40 hours per week for 8 weeks in Spring 2009 to The Nature Conservancy for revegetation and weed control. | Valerie Moser | 775-328-2884 | vmoser@washoecounty.us | 41 | Jerry | \$12,280 | \$12,280 | | | - | \$3,600 | \$3,600.00 | |
| 61 | 59 | b,d | yes | Nov-08 | City of Reno Public Works | Chalk Creek Watershed TDS/Sulfate Reducing Wetland Pilot Project Pilot project to model, design, construct, and monitor a small-scale sulfate-reducing bioreactor wetland system. Project provides opportunity to evaluate efficiency at treating TDS, phosphorus, nitrogen, and selenium from Chalk Creek Watershed. | Terri Svetich | 775-334-3314 | SvetichT@ci.reno.nv.us | 42 | Bill | \$163,000 | \$163,000 | | | | \$50,000 | \$50,000.00 | |

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| 2 | | Category | Project Complete? | Proposal Date | Grantee | Grant Description | Project Manager Name | Project Manager Phone | Project Manager Email | Funded | Committee Member Assigned | Proposal Amount | Resolution Amount | Gift Received to Fund | Source | Match - Monetary | Match - In Kind | Match total |
| 62 | 60 | b,d | yes | Nov-08 | City of Reno Public Works | McKinley Arts & Cultural Center LID Demonstration Project and Installation Training Retrofitting McKinley building with rain gutters to take water away from the building and solve current problems with moisture and irrigation spray; includes steps to protect the Truckee River watershed by providing key examples on stormwater treatment using natural systems. | Lynell Garfield | 775-334-3395 | GarfieldL@ci.reno.nv.us | 43 | Becky (was Trish, was Jason) | \$115,500 | \$115,500 | | | \$300 | \$55,009 | \$55,309.00 |
| 63 | 61 | e | Yes | Nov-08 | Keep Truckee Meadows Beautiful | Truckee River Cleanup Day 2009 Scheduled for Sept. 26, 2009; designed to raise awareness about the importance of a clean, healthy river while engaging residents in keeping the River clean. | Christi Cakiroglu | 775-851-5185 | christi@beautiful.reno.nv.us | 44 | Sue | \$26,975 | \$26,975 | | | - | \$47,599 | \$47,599.00 |
| 64 | 62 | f | Yes | Nov-08 | City of Sparks | Construction of Pioneer Dam Modification Funding will go to costs associated with construction activities for improvements identified in the previous grant for this project. | Shawn Gooch | 775-353-7824 | sgooch@cityofsparks.us | 45 | Ron | \$500,000 | \$500,000 | | | \$608,000 | \$50,000 | \$658,000.00 |
| 65 | 63 | | Yes | Nov-08 | The Nature Conservancy | Independence Lake - Forest and Wildfire Management Funding for forest and wildfire management at Independence Lake. Funding is for part of a \$2,371,108 endowment for perpetual management of the forest at Independence Lake. | Mickey Hazelwood | 775-322-4990 | mhazelwood@tncon.org | 46 | John | \$612,208 | \$237,110 | | | - | \$153,052 | \$153,052.00 |

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| 2 | | Category | Project Complete? | Proposal Date | Grantee | Grant Description | Project Manager Name | Project Manager Phone | Project Manager Email | Funded | Committee Member Assigned | Proposal Amount | Resolution Amount | Gift Received to Fund | Source | Match - Monetary | Match - In Kind | Match total |
| 66 | 64 | n/a | Nov-08 | Nevada Tahoe Conservation District | Best Management Practices Education & Outreach for the Truckee River Watershed in Washoe & Storey Counties Project will demonstrate that programs such as the successfully implemented Backyard Conservation Program could assist landowners with implementing conservation strategies within urban residential communities; also propose to develop a "Living in the Truckee River Watershed" publication that will provide references for the community to manage their property in ways that benefit the human and natural resources of the watershed. | Jason Brand | 775-586-1610 ex 33 | jbrand@ntcd.org | NO | | \$40,500 | - | | | | | | |
| 67 | 65 | n/a | Nov-08 | Washoe Storey Conservation District | Double Diamonds Wetland 5 & 6: LID & Engineered Wetland Rehabilitation Rehabilitation of a 404 permitted wetland, including site survey, updating and engineering the design for US Army Corps of Engineers approval, permitting and planning, design and construction of LID into the drainage plan, and construction/revegetation of wetland with a low flow channel. | Andi Kemmerer | 775-322-9934 | andigrant@hotmail.com | NO | | \$149,316 | - | | | | | | |

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| 68 | 66 | | yes | Jun-09 | Nevada Land Conservancy | Scope of work for Truckee River Ecosystem Restoration Coordination: Creation of a 5-year Weed Control and Restoration Plan for the Truckee River | Becky Stock | 775-851-5180 | becky@nvlc.org | 47 | Michael | \$10,000 | \$10,000 | | | | | \$2,500 | \$2,500.00 |
| 69 | 67 | | Yes | Sep-09 | Desert Research Institute | Cloud Seeding Project for Tahoe and Truckee Basins for WY2010 | Arlen Huggins | 775-674-7140 | arlen.huggins@dri.edu | 48 | Becky | \$210,072 | \$165,151 | \$838,000 | TMWA 9/09 | \$52,674 | | \$52,674.00 | |
| 70 | 68 | D | yes | Nov-09 | AlpenGroup (proposal submitted by U.S. Army Corps of Engineers, Martis Creek Lake) | Eurasian milfoil removal from Martis Creek Lake. Eradicate Eurasian milfoil by using black cloth barrier method. Plan calls for treating approximately 80% of the lake area in 2010 season. | Phil Caterino/Jacqui Zink | 530-587-8113 | jacqueline.a.zink@usace.army.mil | 49 | Sue | \$20,550 | \$20,550 | | | \$4,450 | \$2,400 | \$6,850.00 | |
| 71 | 69 | A,C,D | yes | Nov-09 | Washoe County Sheriff's Office | WCSO Community Work Program-Truckee River Restoration Projects-Weed Control. Provide supervision of inmate and community service work crews 30-40 hours per week for 8 to 32 weeks in Winter/Spring 2010 to The Nature Conservancy for revegetation and weed control. | Jeanie Knowles | 775-328-3013 | jknowles@washoecounty.us | 50 | Sue | \$68,962.34 | \$68,962.34 | | | | | \$25,600 | \$25,600.00 |
| 72 | 70 | A,B,D | yes | Nov-09 | Nevada Land Conservancy | 2010 Weed Treatments & Revegetation: Truckee River & Tributaries. Facilitate weed control and restoration in Truckee Meadows as identified by Truckee Meadows Weed Coordinating Group's 2010 Action Plan--Verdi and upstream in NV. | Becky Stock | 775-851-5180 | becky@nvlc.org | 51 | Sue | \$125,000 | \$125,000 | | | \$30,000 | \$1,250 | \$31,250.00 | |

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| 73 | | 71 D | yes | Nov-09 | Tahoe Resource Conservation District | Watercraft Inspection Program for the Truckee River Watershed. Initiate a coordinated, multi-party planning effort specifically intended to accelerate regional prevention and control efforts of aquatic invasive species. | Kim Boyd | 530-543-1501, ext 109 | kboyd@tahoer.cd.org | 52 | Tom | \$231,123 | \$231,123 | | | \$5,000 | \$75,340 | \$80,340.00 |
| 74 | | 72 A,C,D | yes | Nov-09 | Keep Truckee Meadows Beautiful | Truckee River Cleanup 2010. Expanding the annual Cleanup Day to include a spring and fall cleanup. | Christi Cakiroglu | 775-851-5185 | christi@ktmb.org | 53 | Sue | \$42,050 | \$42,050 | | | \$14,185 | \$52,830 | \$67,015.00 |
| 75 | | 73 B,C | Yes | Nov-09 | City of Reno | Livestock Events Center Drainage Treatment System. Design and construction of a storm water structural control that will minimize pollutants by runoff before it enters the offsite public storm drainage system. | Glen Daily | 775-334-2206 | daily@ci.reno.nv.us | 54 | Bill | \$75,000 | \$75,000 | | | \$10,000 | \$15,000 | \$25,000.00 |
| 76 | | 74 e | yes | May-10 | The Nature Conservancy | Independence Lake Woody Fuels Reduction for Fire Resilience. Implementation of actions that reduce the risk of catastrophic fire and subsequent erosion of sediment into the lake. | Chris Fichtel | 775-322-4990 | cfichtel@tnc.org | 55 | John | \$50,000 | \$50,000 | | | \$91,492 | | \$91,492.00 |
| 77 | | 75 a,b,c | yes | May-10 | Truckee River Watershed Council | Truckee Wetlands Restoration Project-Phase 2. Develop a hydrologic analysis, restoration plan and design and phasing and obtain needed permits for restoration. | Lisa Wallace | 530-550-8760 | wallace@truckeeriverwc.org | 56 | Jerry | \$40,000 | \$40,000 | | | \$10,000 | \$10,000 | \$10,000.00 |

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| 78 | | 76 a,c | | Oct-10 | Truckee River Watershed Council | Coldstream Canyon Floodplain Restoration Project. Creek and floodplain restoration in the lower reaches of Coldstream Canyon. | Beth Christman | 530-550-8760 | bchristman@truckeeriverwco.org | 57 | Jerry | \$343,553 | \$135,000 | \$1,120,000 | TMWA 8/10 | \$521,260 | | \$521,260.00 |
| 79 | | 77 c,e | Yes | Oct-10 | Board of Regents NSHE | Maintenance Training. Provides field training for developers, planners, contractors, installers, inspectors, and government employees in correct selection, installation, | Sue Donaldson | 775-784-4848 | donaldsons@unce.unr.edu | 58 | John | \$21,269 | \$21,269 | | | \$5,318 | | \$5,318.00 |
| 80 | | 78 e | yes | Oct-10 | The Nature Conservancy | Independence Lake Woody Fuels Reduction for Fire Resilience - Year 3. Forest thinning on 80 acres surrounding Independence Lake for reduction of woody fuels. | Chris Fichtel | 775-322-4990 | cfichtel@tnc.org | 59 | John | \$60,000 | \$60,000 | | | \$32,000 | | \$32,000.00 |
| 81 | | 79 d | yes | Oct-10 | Tahoe Resource Conservation District | Invasive Species Prevention Program. Continuation of necessary development of a sustainable long-term Watercraft Inspection and Decontamination Program | Kim Boyd | 530-543-1501 x109 | kboyd@tahoercd.org | 60 | Tom | \$296,013 | \$296,013 | | | \$5,000 | \$69,200 | \$74,200.00 |
| 82 | | 80 a,c,d | yes | Oct-10 | Washoe County Sheriff's Office | Office Community Work Program - Weed Control. Supplies to effectively meet the needs of the community and the various clean up efforts performed throughout the year. | Jeanie Knowles | 775-328-3013 | jknowles@washoecounty.us | 61 | Sue | \$12,695 | \$12,695 | | | | \$3,600 | \$3,600.00 |
| 83 | | 81 e | yes | Oct-10 | Desert Research Institute | Cloud Seeding Project for Tahoe and Truckee Basins for WY2011 | Arlen Huggins | 775-674-7140 | arlen.huggins@diri.edu | 62 | Becky | \$191,907 | \$155,876 | | | \$63,969 | | \$63,969.00 |

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| 84 | 82 | c,d | yes | Oct-10 | Keep Truckee Meadows Beautiful | Truckee River Cleanup 2011. litter prevention and removal and community education and removal of invasive weeds along Truckee River watersheds. | Christi Cakiroglu | 775-851-5185 | christi@ktmb.org | 63 | Sue | \$42,900 | \$42,900 | | | \$17,700 | \$63,040 | \$80,740.00 |
| 85 | 83 | b,c | yes | Feb-11 | City of Reno | Drainage Treatment System Phase 2. Design and construction of a second storm water structural control that will minimize pollutants by runoff before it enters the offsite public storm drainage | Glen Daily | 775-334-2206 | dailyg@reno.gov | 64 | Bill | \$97,500 | \$97,500 | | | \$12,500 | \$20,000 | \$32,500.00 |
| 86 | 84 | e | Yes | Feb-11 | Sierra Nevada Journeys | Watershed Education Initiative | Jonathan Mueller | 775-355-1688 | jonathan@sierranevadajourneys.org | 65 | Sue | \$10,000 | \$10,000 | | | \$6,000 | \$560 | \$6,560.00 |
| 87 | 85 | | n/a | Feb-11 | North Tahoe Public Utility District | Secline Sewer Pump Station Rehabilitation Project. Modify current conditions of tfacility, extend useful life, ensure pump station meets standards. | Paul Schultz | 530-546-4212 | pschultz@ntpu.d.org | no | | \$500,000 | | | | \$209,723 | | |
| 88 | 86 | a,b | yes | Feb-11 | River Partners | Restoration plan for UNR. Develop a habitat restoration plan for the 1,000 acre UNR Main Station Field Laboratory property. | John Carlon | 530-894-5401, ext 224 | jcarlon@riverpartners.org | 66 | Becky | \$24,000 | \$23,990 | | | \$6,001 | | \$6,001.00 |
| 89 | 87 | | | Jun-11 | Desert Research Institute | Monitoring on the Truckee River. four basic components: 1) review of historic river data collected on the mainstem Truckee; 2) monthly "grab" samples at 13 locations on | Alan McKay | 775-673-7384 | Alan.McKay@dro.dri.edu | 67 | Michael | \$318,012 | \$318,012 | | | \$80,000 | \$75,062 | \$155,062.00 |

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| 2 | | | | | | | | | | | | | | | | | | |
| 90 | | 88 d | Yes | Sep-11 | The Nature Conservancy | Preventing Aquatic Invasive Species at Independence Lake. Primary measurable outcome will be the successful deterrence of future introductions of AIS into Independence Lake | Chris Fichtel | 775-322-4990 | cfichtel@tnc.org | 68 | John | \$28,290 | \$28,290 | \$1,029,000 | TMWA | \$20,135 | | \$20,135.00 |
| 91 | | 89 | yes | Sep-11 | Keep Truckee Meadows Beautiful | Truckee River Cleanup 2012. Continue focus on litter prevention and removal and community education and removal of invasive weeds along the Truckee River | Christi Cakiroglu | 775-851-5185 | christi@ktmb.org | 69 | Sue | \$44,950 | \$44,950 | | | \$17,350 | \$75,500 | \$92,850.00 |
| 92 | | 90 a,b,d | | Sep-11 | Nevada Land Conservancy | Weed Treatments & Revegetation: Truckee River & Tributaries: implement 1,125 acres and 10 trail miles of weed control and restoration as directed by the Truckee Meadows Cooperative Weed Group. | Becky Stock | 775-851-5180 | becky@nvlc.org | 70 | Sue | \$127,500 | \$127,500 | | | \$40,000 | \$25,440 | \$65,440.00 |
| 93 | | 91 c,d,e | | Sep-11 | Washoe County Sheriff's Office | Community Work Program-Pollution & Weed Control: provide full time Inmate Work Program Leader to supervise inmate and community service work crews. | Jeanie Knowles | 775-328-3013 | jknowles@washoecounty.us | 71 | Sue/Ron | \$71,860 | \$71,860 | | | | \$19,460 | \$19,460.00 |
| 94 | | 92 | yes | Sep-11 | Desert Research Institute | Cloud Seeding Project for Tahoe & Truckee Basins for WY2012: Enhance snowfall from winter storms and increase snowpack through wintertime cloud seeding technology | Arlen Huggins | 775-674-7140 | arlen.huggins@dri.edu | 72 | Becky | \$154,815 | \$154,815 | | | \$115,691 | | \$115,691.00 |
| 95 | | 93 | n/a | Sep-11 | Truckee Donner Land Trust | Webber Lake & Lacey Meadows Acquisition & Restoration: funding to maintain a healthy water system in the upper Truckee River watershed | Perry Norris | 530-582-4711 | perry@tdlandtrust.org | no | | \$100,000 | | | | \$2,700,000 | | |

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| 96 | | 94 | c,e yes | Sep-11 | Board of Regents, NSHE | BMP Installation & Maintenance Field Training & Classes: offer free field training to developers, planners, contractors, installers, inspectors, and government employees in 2012 | Sue Donaldson | 775-336-0242 | donaldsons@unce.unr.edu | 73 | John | \$19,375 | \$19,375 | | | \$4,844 | | \$4,844.00 |
| 97 | | 95 | d Yes | Sep-11 | Tahoe Resource Conservation District | Truckee Regional Aquatic Invasive Species Prevention Program: funding for further development of an mandatory AIS prevention program, increased public outreach and enhanced environmental monitoring. | Kim Boyd | 530-543-1501, ext 109 | kboyd@tahoercd.org | 74 | Tom | \$267,627 | \$267,627 | | | \$5,000 | \$66,200 | \$71,200.00 |
| 98 | | 96 | e yes | Sep-11 | Sierra Nevada Journeys | Watershed Education Initiative: in-class lessons and after-school programs that tie directly to field-based experiences within the Truckee River watershed. | Jonathan Mueller | 775-355-1688 | jonathan@sierranevadajourneys.org | 75 | Sue | \$10,010 | \$10,010 | | | \$1,872 | \$1,600 | \$3,472.00 |
| 99 | | 97 | n/a | Sep-11 | Washoe-Storey Conservation District | Weed Abatement Program: Education, Training, Removal, & Maintenance: education & training for homeowners, developers, planners, contractors, district employees, and maintenance employees in proper identification and removal of noxious and invasive weeds. | Kerry McMain | 775-857-8500, ext 131 | wscd.grants@vmail.com | no | | \$50,000 | | | | \$16,000 | \$28,000 | |
| 100 | | 98 | n/a | Sep-11 | Great Basin Land & Water | Truckee River Instream Flow & Water Quality Enhancement: acquire roughly 900 acre-feet of Truckee River Claim 3 water rights and appurtenant lands | Rob Scanland | 775-742-5959 | rob@greatbasinlandandwater.org | no | | \$260,000 | withdrawn | | | \$5,300,000 | | |

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| 101 | | 99 a,d | | Dec-11 | Nevada Land Conservancy | Caughlin Fire Emergency Watershed Stabilization & Restoration Effort | Sonya Hem Giroux | 775-851-5180 | sonya@nvlc.org | 76 | Michael | \$219,856 | \$219,856 | | | | \$150,850 | \$150,850.00 |
| 102 | | 100 a,c | | Feb-12 | Truckee River Watershed Council | Negro Canyon Restoration: Reduce Erosion to Donner Lake and the Truckee River by up to 175 tons annually. | Beth Christman | 530-550-8769 x1 | bchristman@truckeeriverwc.org | 77 | Jerry | \$289,820 | \$25,000 | | | \$253,868 | \$6,000 | \$259,868.00 |
| 103 | | 101 | | Feb-12 | Bureau of Land Management | Truckee River Restoration: small tracts of land along bank of TR managed by BLM. | Dean Tonenna | 775-885-6189 | dtonenna@blm.gov | no | | \$175,000 | | | | | \$85,810 | |
| 104 | | 102 | | Feb-12 | BOR NSHE for DRI | Watershed Based Planning Tool for the Truckee River Basin: develop a useful and efficient watershed based planning tool that will identify impaired sections of the TR and assist TRF advisors in prioritizing future projects. | Alan McKay | 775-673-7384 | Alan.McKay@dro.edu | no | | \$199,404 | withdrawn | | | \$67,155 | | |
| 105 | | 103 | | Feb-12 | American Rivers, with Truckee River Watershed Council and Sierra Watch | Martis Solutions Initiative: to promote informed and sensible solutions to the threat of Martis Creek Dam. | Steve Rothert | 530-277-0448 | srothert@americanrivers.org | no | | \$40,000 | | | | \$52,400 | \$4,800 | |
| 106 | | 104 | | Feb-12 | Nevada Land Conservancy | Washoe Drive Emergency Watershed Stabiization & Restoration Effort: erosion control and emergency watershed protection measure in three priority areas. | Lynda Nelson | 775-851-5180 | lynda@nvlc.org | 78 | Michael | \$145,000 | \$115,000 | | | | \$38,530 | \$38,530.00 |
| 107 | | | | | | | | | | | | | | \$851,000 | TMWA | | | |
| 108 | | 105 a,e | | Feb-12 | Truckee River Watershed Council | Lacey Creek and Meadow Assessment: recommend restoration projects and management practices in the headwaters of the Little Truckee River | Beth Christman | 530-550-8760 x1 | bchristman@truckeeriverwc.org | 79 | Jerry | \$50,000 | \$50,000 | | | \$8,500,000 | | \$8,500,000.00 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | R | S | T |
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| | | Category | Project Complete? | Proposal Date | Grantee | Grant Description | Project Manager Name | Project Manager Phone | Project Manager Email | Funded | Committee Member Assigned | Proposal Amount | Resolution Amount | Gift Received to Fund | Source | Match - Monetary | Match - In Kind | Match total |
| 2 | | | | | | | | | | | | | | | | | | |
| 109 | | 106 ^e | yes | Aug-12 | The Nature Conservancy | Independence Lake Woody Fuels Reduction for Fire Resilience--Yr 3 Supplemental Funding: implement forest thinning and woody fuels reduction on 80 acres surrounding Independences Lake Preserve. | Chris Fichtel | 775-322-4990 x | cfichtel@tnc.org | 80 | John | \$30,000 | \$30,000 | | | \$43,740 | | \$43,740.00 |
| 110 | | 107 ^{a,c} | | Aug-12 | Truckee River Watershed Council | Phase 2 Coldstream Canyon Floodplain Restoration: reduce erosion to the Truckee River through restoring a stream reach of Coldstream Canyon | Beth Christman | 530-550-8760, x1 | bchristman@truckeeriverwc.org | 81 | Jerry | \$196,000 | \$196,000 | | | \$772,760 | | \$772,760.00 |
| 111 | | 108 | n/a | Aug-12 | Truckee River Watershed Council | Negro Canyon Restoration: Reduce Erosion to Donner Lake and the Truckee River by up to 175 tons annually. | Beth Christman | 530-550-8760, x1 | bchristman@truckeeriverwc.org | no | | \$268,720 | | | | \$253,868 | \$6,000 | |
| 112 | | 109 | n/a | Aug-12 | League to Save Lake Tahoe | Pipe Keepers/Storm Drain Monitoring & Marking Project: group of volunteers coordinated by Americorp members; will monitor water flowing out of storm drains unfiltered into Lake Tahoe. | Karen Hodges | 530-541-5388 | Karen@keepthoebblue.org | no | | \$59,950 | | | | \$32,646 | \$40,000 | |
| 113 | | 110 ^{c,d,e} | | Aug-12 | Washoe County Sheriff's Office | Community Work Program-Pollution & Weed Control | Jeanie Knowles | 775-328-3013 | jknowles@washoecounty.us | 82 | Sue/Ron | \$85,114 | \$68,250 | | | | \$21,600 | \$21,600.00 |
| 114 | | 111 ^d | | Aug-12 | Friends of Nevada Wilderness | Mt Rose Noxious Weed Monitoring & Treatment: treat approximately 50 acres of noxious weeds on Humbolt-Toiyabe National Forest lands | Renee Aldrich | 775-324-7667 | renee@nevadawilderness.org | 83 | Becky/Sue | \$13,225 | \$13,225 | | | \$7,020 | \$4,250 | \$11,270.00 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | R | S | T |
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| 2 | | | | | | | | | | | | | | | | | | |
| 115 | | 112 ^e | | Aug-12 | Sierra Nevada Journeys | Watershed Education Initiative: deliver educational programs to youth in the Reno area to inspire students to learn about their local Watershed and empower them to protect/enhance river quality. | Megan Merenda | 775-355-1688 | megan@sierranevadajourneys.org | 84 | sue | \$12,690 | \$12,690 | | | \$3,422 | \$600 | \$4,022.00 |
| 116 | | 113 | n/a | Aug-12 | Pyramid Lake Paiute Tribe | Fellnagle Fish Passage Improvement Project: improve fish passage from Fellnagle dam and irrigation diversion by stabilizing streambank and decreasing erosion/pollution | John Mosley | 775-574-0101 x13 | jmosley@plpt.nsn.us | no | | \$200,000 | | | | \$445,000 | \$5,000 | |
| 117 | | 114 | n/a | Aug-12 | Town of Truckee | Truckee Storm Water System Retrofit Project: install structural and/or LID improvements to treat storm water runoff in high priority drainages | Jessica Thompson | 530-582-2938 | ithompson@townoftruckee.com | no | | \$250,000 | | | | \$32,500 | \$30,000 | |
| 118 | | 115 ^{c,d} | yes | Aug-12 | Keep Truckee Meadows Beautiful | Truckee River Cleanup Day 2013 | Deidre Kennelly | 775-851-5185 | deidre@ktmb.org | 85 | Sue | \$46,450 | \$46,450 | | | \$16,250 | \$77,450 | \$93,770.00 |
| 119 | | 116 ^d | | Aug-12 | Tahoe Resource Conservation District | Truckee Rgional Aquatic Invasive Species Prevention: support TRCD's efforts to prevent AIS infestation in Truckee Regional waters | Kim Boyd | 530-543-1501 x109 | kboyd@tahoercd.org | 86 | Tom | \$179,455 | \$179,455 | | | \$70,000 | \$54,200 | \$124,200.00 |
| 120 | | 117 ^E | Yes | Feb-13 | The Nature Conservancy | Reduce woody fuel loading and reduce risk of severe wildfire around Independence Lake. | Chris Fichtel | 775-322-4990 x 3114 | cfichtel@tnc.org | 87 | John | \$41,300 | \$41,300 | | | \$20,650 | | \$20,650.00 |
| 121 | | 118 ^{A,C} | | Feb-13 | Truckee River Watershed Council | Middle Martis Wetland Restoration-planning & design. | Beth Christman | 530-550-8760, x1 | bchristman@truckeriverwc.org | 88 | Jerry | \$170,000 | \$120,000 | | | \$60,000 | \$200,000 | \$260,000.00 |
| 122 | | 119 ^{A,E} | | Feb-13 | City of Reno | Hazardous tree removal at Oxbow Park | Jeff Mann | 775-334-2270 | mannj@reno.gov | 89 | Bill | \$32,250 | \$32,250 | | | | \$16,531 | \$16,531.00 |
| 123 | | 120 ^{A,E} | | Feb-13 | City of Reno | Truckee River bank stabilization at Crooked Mile | Jeff Mann | 775-334-2270 | mannj@reno.gov | 90 | Bill | \$18,175*see note | \$30,615 | | | \$18,175 | \$2,988 | \$21,163.00 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | R | S | T | |
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| | | Category | Project Complete? | Proposal Date | Grantee | Grant Description | Project Manager Name | Project Manager Phone | Project Manager Email | Funded | Committee Member Assigned | Proposal Amount | Resolution Amount | Gift Received to Fund | Source | Match - Monetary | Match - In Kind | Match total | |
| 2 | | 121 | D | Feb-13 | BoR NSHE for UNR Cooperative Extension | Aquatic Invasive Species Education and Outreach for Nevada | John Cobourn | 775-336-0244 | cobournj@unc.e.unr.edu | no | | \$106,263 | | | | \$23,581 | \$3,000 | | |
| 124 | | 122 | A,C | Feb-13 | Truckee River Watershed Council | Truckee River Big Chief Corridor-Implementation | Jeannette Halderman | 530-550-8760 x 5 | jhalderman@truckeeriverwc.org | 91 | Jerry | \$100,000 | \$11,000 | | | \$344,000 | | \$344,000.00 | |
| 125 | | 123 | A,C,E | Feb-13 | The Nature Conservancy | Truckee River Restoration Project-Hoss Property Acquisition | Patti Bakker | 775-322-4990 | pbakker@tnc.org | no | withdrawn | \$9,500 | | | | \$35,500 | | | |
| 126 | | 124 | D | n/a | Feb-13 | Tahoe Resource Conservation District | Truckee River Eurasian Watermilfoil Removal | Kim Boyd | 530-543-1501 x 109 | kboyd@tahoercd.org | 92 | Tom | \$43,062 | \$43,062 | | | \$13,855 | \$3,500 | \$17,355.00 |
| 127 | | 125 | E | yes | Feb-13 | Sierra Nevada Journeys | Sierra Nevada Journeys' Watershed Education Initiative | Nicholas Nelson | 775-355-1688 | nic@sierranewadajourneys.org | 93 | Sue/Ron | \$16,050 | \$16,050 | | | \$4,594 | \$1,000 | \$5,594.00 |
| 128 | | 126 | C, D, E | | Aug-13 | Keep Truckee Meadows Beautiful | Truckee River Youth Education/Invasive Weed Pull/Cleanup 2014 | Jaime Souza | 775-851-5185 | jaime@ktmb.org | 94 | | \$57,050 | \$57,050 | | | \$47,330 | \$77,210 | \$124,540.00 |
| 129 | | 127 | C, D | | Aug-13 | Washoe County Sheriff's Office | Community Work Program - Pollution & Weed Control | Jeanie Knowles | 775-328-3013 | jknowles@washocounty.us | no | | \$52,782 | withdrawn | | | \$13,440 | | |
| 130 | | 128 | A,C | | Aug-13 | Truckee River Watershed Council | Truckee River Big Chief Corridor-Restoration | Jeannette Halderman | 530-550-8760 x6 | jhalderman@truckeeriverwc.org | 95 | | \$350,000 | \$150,000 | | | \$355,000 | \$25,000 | \$380,000.00 |
| 131 | | 129 | A,D | | Aug-13 | Nevada Land Trust | Weed Treatments & Revegetation: Truckee River & Tributaries: | Tracy Visher | 775-851-5180 | tracy.visher@sbglobal.net | 96 | | \$100,000 | \$65,050 | | | \$20,000 | \$5,000 | \$25,000.00 |
| 132 | | 130 | D | | Aug-13 | Friends of Nevada Wilderness | Mt. Rose Noxious Weed Monitoring & Treatment | Renee Aldrich | 775-324-7667 | renee@nevadawilderness.org | 97 | | \$10,896 | \$10,896 | | | \$6,600 | \$4,250 | \$10,850.00 |
| 133 | | 131 | E | | Aug-13 | Sierra Nevada Journeys | Sierra Nevada Journeys' Watershed Education Initiative | Nicholas Nelson | 775-355-1688 | nic@sierranewadajourneys.org | 98 | | \$24,200 | \$24,200 | | | \$7,050 | \$1,600 | \$8,650.00 |
| 134 | | 132 | A | | Aug-13 | Town of Truckee | Trou Creek Restoration-Lower Reach 1 | Becky Bucar | 530-582-2932 | bbucar@townoftruckee.com | no | | \$192,516 | | | \$897,504 | | | |
| 135 | | 133 | D | | Aug-13 | Tahoe Resource Conservation District | Truckee Regional Aquatic Invasive Species Prevention Program | Kim Boyd | 530-543-1501 x109 | kboyd@tahoercd.org | 99 | | \$207,250 | \$115,000 | | | \$16,546 | \$55,780 | \$72,326.00 |
| 136 | | 134 | E | | Aug-13 | City of Reno | Reducing non-point source pollution to the Highland Canal | Terri Svetich | 775-334-3314 | etsvetich@qmail.com | 100 | | \$400,000 | \$400,000 | | | \$243,000 | \$20,000 | \$263,000.00 |
| 137 | | | | | | | | | | | | | | | | | | | |

