

Tahoe Sierra IRWM

Project Template

Please provide information in the tables below:

I. Project Proponent Information

Agency/ Organization	Town of Truckee
Name of Primary Contact	Becky Bucar
Name of Secondary Contact	Todd Landry
Mailing Address	10183 Truckee Airport Road
E-mail	bbucar@townoftruckee.com
Phone (###)###-####	530-582-2932
Other Cooperating Agencies/Organizations/Stakeholders	Truckee River Watershed council, Truckee Donner Recreation and Park District, Truckee Development Associates
Is your agency/organization committed to the project through completion? If not, please explain	Yes

II. General Project Information

Project Title	Trout Creek Restoration	
Project Category	<input type="checkbox"/> Water Supply/Wastewater <input checked="" type="checkbox"/> Restoration <input checked="" type="checkbox"/> Storm Water/Flood Control	
Project Description (Briefly describe the project, in 300 words or less)	<p>The Trout Creek Restoration Project would restore 5 reaches of Trout Creek between the Union Pacific Railroad property located immediately north of the Truckee River and the culvert that travels under Interstate 80 north of Jibboom Street. Reach 1 Phase 1, and Reaches 2 and 3 are complete. Construction of Reach 1 Phase 2 would remove the existing concrete channel that travels between Donner Pass Road and School Street. Reaches 4 and 5 run primarily through land that is planned to be developed through the Railyard Master Plan. Development of this master plan has begun. Construction of these reaches (as well as Reach 1, Phase 2) is dependent on the availability of funding.</p>	
Project Prioritization:	Total number of projects submitted by your Agency:	8
	Agency Prioritization of this project (e.g., 3 of 5)	3
Does this project contribute to a larger Project (e.g., TMDL, EIP, Phase 2 of 3) ? If so provide description.	All phases are included in this template.	
Political Support – List related MOUs, agreements or TACs currently in place.		
Project Location:		
Latitude:	39.33107	
Longitude:	-120.18710	
Project Location Description (e.g., along the south bank of stream/river between river miles or miles from Towns/intersection and/or address):	Along Trout Creek between Union Pacific Railroad property immediately north of the Truckee River and Interstate 80.	

Tahoe Sierra IRWM

III. Plan Objectives Addressed

For each of the objectives addressed by the project, provide a one to two sentence description of how the project contributes to attaining the objective and how the project will be quantified. If the project does not address any of the draft IRWM plan objectives, provide a one to two sentence description of how the project relates to a challenge or opportunity of the Region (see the bottom of page 4).

Objectives:	Will the project address the objective?	Brief explanation of project linkage to selected Objective	Quantification (e.g. acres of streams/wetlands restored or enhanced)
WQ1 - Meet approved TMDL standards in accordance with the attainment date, and participate in the development of future TMDLs.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Restoration of Trout Creek will reduce sediment load to the Truckee River.	Sediment load.
WQ2 – Reduce pollutant loads by implementing measures such as stormwater LID retrofits, erosion control/restoration to meet Water Quality Objectives (WQOs) for receiving water bodies established in the Basin Plan within the planning horizon.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Restoration of Trout Creek will reduce sediment load to the Truckee River.	Sediment load.
WQ3 - Implement water quality monitoring programs through planning horizon, and coordinate annually throughout the Region.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
WQ4 - Ensure that drinking water supplied by public water systems continues to meet Federal and State standards.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
WQ5 - Restore degraded streams, wetlands, riparian and upland areas to re-establish natural water filtering processes.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The project will restore the ecological function of the creek. Wetlands will be created in Reaches 4 and 5.	Acres of restored creek. Acres of wetland.
WQ6 -Operate and maintain, build, or replace infrastructure for reliable collection, treatment and disposal of wastewater.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		

Tahoe Sierra IRWM

Objectives:	Will the project address the objective?	Brief explanation of project linkage to selected Objective	Quantification (e.g. acres of streams/wetlands restored or enhanced)
WS1 - Provide water supply to meet projected demands for a 20-year planning horizon.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
WS2 - Operate and maintain, build, or replace infrastructure to reliably supply water.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
WS3 - Implement and promote water conservation measures and practices to meet state goals.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
GWM1 - Maintain and monitor groundwater supply to assure future reliability.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
GWM2 - Promote groundwater protection activities for high quality groundwater, and advocate for improvements to impacted groundwater quality through public education.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
GWM3 - Manage groundwater for multiple uses (e.g. municipal/industrial/agricultural supply and environmental use).	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
ER1 - Enhance and restore water bodies, wetlands, riparian areas and associated uplands to support healthy watersheds, viable native fish, wildlife and plant habitats.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A		
ER2 - Develop and implement programs to prevent the spread of existing invasive species and colonization of potential future invasive species.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		

Tahoe Sierra IRWM

Objectives:	Will the project address the objective?	Brief explanation of project linkage to selected Objective	Quantification (e.g. acres of streams/wetlands restored or enhanced)
ER3 - Implement, in coordination with public and private landowners, activities to manage forest health and wildfire risks.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
ER4 - Minimize ecosystem impacts caused by existing and new development.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
IWM1 - Conduct local and regional water-related planning activities within the planning horizon as supported by current and future watershed science.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
IWM2 - Ensure collaboration among multiple jurisdictions within the Region for information exchange.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
IWM3 - Increase public education and awareness of watershed functions, protection and restoration needs to encourage stewardship by the public.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	This is an opportunity for interpretive signage along the restoration project.	Number of interpretive signs.
IWM4 - Promote activities that reduce flood risk.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The project will contain the 100-year flood flows. The area currently floods during large storm events.	Remapped floodplain.
IWM5 - Address climate change (e.g. water quality, water supply, groundwater recharge, flood management) in local and regional planning efforts and support efforts to continue improving the science.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
IWM6 - Monitor water storage, release and exchange activities in order to improve coordination with regional planning.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		

If no objectives are addressed; describe how the project relates to a challenge or opportunity of the Region:

Tahoe Sierra IRWM

Project Impacts and Benefits

Please provide a summary of the expected project benefits and impacts in the table below or check N/A if not applicable; **do not leave a blank cell.**

If applicable describe benefits or impacts of the project with respect to:		
a. Native American Tribal Community considerations.	<input type="checkbox"/> N/A	Trout Creek drains to the Truckee River, which terminates in Pyramid Lake, located within the Pyramid Lake Paiute Tribe Reservation. Reductions in sediment loads benefit this as well as the fisheries including Lahontan Cutthroat Trout.
b. Disadvantaged Community considerations¹.	<input checked="" type="checkbox"/> N/A	
c. Environmental Justice² considerations.	<input checked="" type="checkbox"/> N/A	
d. Assist the Region in adapting to effects of climate change³.	<input checked="" type="checkbox"/> N/A	
e. Generation or reduction of greenhouse gas emissions (e.g. green technology).	<input type="checkbox"/> N/A	The project would include installation of vegetation that would help lower the water temperature to improve the cold water habitat of the creek. In addition, plants, remove carbon dioxide from the air through carbon sequestration. Therefore, as the project will install a substantial amount of vegetation as a part of the restoration effort, it will help slow the growth of greenhouse gas concentrations in the atmosphere.
f. Other expected impacts or benefits that are not already mentioned elsewhere.	<input type="checkbox"/> N/A	Provide flood protection and restores ecological function of the creek.

1. A Disadvantaged Community is defined as a community with an annual median household (MHI) income that is less than 80 percent of the statewide annual MHI. A map has been provided with the Project Template Instruction for reference.

2. Environmental Justice is defined as the fair treatment of people of all races, cultures, and incomes with respect to the development, adoption, implementation and enforcement of environmental laws, regulations and policies. An example of environmental justice benefit would be to improve conditions (e.g. water supply, flooding, sanitation) in an area of racial minorities

3. Climate change effects are likely to include increased flooding, extended drought, and associated secondary effects such as increased wildfire risk, erosion, and sedimentation.

IV. Resource Management Strategies (RMS)

For each resource management strategy employed by the project, provide a one to two sentence description in the table below of how the project incorporates the strategy. A description of the Resource Management Strategies can be found in Volume 2 of the 2009 California Water Plan here:

<http://www.waterplan.water.ca.gov/cwpu2009/index.cfm>

Tahoe Sierra IRWM

Resource Management Strategy	Will the Project incorporate RMS?	Description, of how RMS to be employed if applicable
Reduce Water Demand		
Agricultural Water Use Efficiency	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Urban Water Use Efficiency	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Improve Operational Efficiency and Transfers		
Conveyance - Regional / local	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
System Reoperation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Water Transfers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Increase Water Supply		
Conjunctive Management & Groundwater	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Desalination	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Precipitation Enhancement		
Recycled Municipal Water	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Surface Storage -- Regional / Local	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Improve Water Quality		
Drinking Water Treatment and Distribution	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Groundwater and Aquifer Remediation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Matching Water Quality to Use	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pollution Prevention	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Project will implement erosion control measures and will reduce sediment load to the Truckee River.
Salt and Salinity Management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Urban Runoff Management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Project will include facilities to treat urban runoff.
Practice Resources Stewardship		
Agricultural Lands Stewardship	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Economic Incentives (Loans, Grants, and Water Pricing)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Ecosystem Restoration	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Restores ecological function of the creek.
Forest Management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Land Use Planning and Management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Recharge Areas Protection	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Water-dependent Recreation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Project will provide visual access to Trout Creek.
Watershed Management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Improve Flood Management		
Flood Risk Management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Project will provide 100-year flood protection.

Tahoe Sierra IRWM

Note: The following RMS have been omitted from the list: Conveyance-Delta and Surface Storage – CALFED.

Other RMS addressed and explanation:

Tahoe Sierra IRWM

V. Project Cost and Financing - Please provide any estimates of project cost, sources of funding, and operation and maintenance costs, as well as, the source of the project cost in the table below.

a. Project Costs	Requested Grant Amount	Cost Share: Non-State Fund Source (Local/Federal Funding Match)	Cost Share: Other State Fund Source	Total Cost
1. Capital (2013 Dollars)	\$13,000,000	\$ OR <input type="checkbox"/> DAC		\$13,000,000
2. Annual Operations and Maintenance (O&M)		\$30,000		\$30,000
b. Can the Project be phased?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
1. If so provide cost breakdown by phase(s)	Project Cost	O&M Cost	Description of Phase	
Phase 1	\$2,500,000	\$10,000	Reach 1 Phase 2	
Phase 2	\$10,500,000	\$20,000	Reaches 4 and 5	
Phase 3				
Phase 4				
c. List secured source(s) of funding for Project cost		Source(s)	Amount	
d. List proposed source(s) of unsecured funding and certainty of the sources for Project cost.				
e. Explain how operation and maintenance costs will be financed for the 25-year planning period for project implementation (not grant funded).				
f. Basis for project cost¹ (e.g. conceptual, planning, bid, etc.)		Conceptual.		
g. Has a Cost/Benefit analysis been completed?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
h. Please describe what impact there may be if the project is not funded. (300 words or less)		Project will not be constructed.		

1. For the grant application a detailed project cost estimate will need to be provided with the following cost categories; per the IRWM PSP for Round 2, Implementation Grants: Direct Project Administration, Land Purchase/Easement, Planning/Design/Engineering/Environmental Documentation, Construction/Implementation, Environmental Compliance/Mitigation/Enhancement, Construction Administration, Other Costs, and Construction/Implementation Contingency.

Tahoe Sierra IRWM

VI. Project Status and Schedule -Please provide a status of the project, level of completion as well as a description of the activities planned for each project stage. If unknown enter **TBD**.

Project Stage	Check the Current Project Stage	Completed?	Description of Activities in Each Project Stage	Planned/Actual Start Date (mm/yr)	Planned/Actual Completion Date (mm/yr)
a. Assessment and Evaluation	x	xYes <input type="checkbox"/> No <input type="checkbox"/> N/A			
b. Final Design	x	<input type="checkbox"/> Yes xNo <input type="checkbox"/> N/A	50% design is complete for Reach 1, Phase 2. 30% design is complete for Reaches 4 and 5.		
c. Environmental Documentation (CEQA/NEPA)	x	xYes <input type="checkbox"/> No <input type="checkbox"/> N/A	CEQA Mitigated Negative Declaration for Reaches 1-3 is complete		
d. Permitting	x	xYes <input type="checkbox"/> No <input type="checkbox"/> N/A	Reach 1 Phase 1 and Reaches 2 and 3 complete.		
e. Construction Contracting	<input type="checkbox"/>	<input type="checkbox"/> Yes xNo <input type="checkbox"/> N/A	Reach 1 Phase 1 and Reaches 2 and 3 complete.		
f. Construction Implementation	<input type="checkbox"/>	<input type="checkbox"/> Yes xNo <input type="checkbox"/> N/A	Reach 1 Phase 1 and Reaches 2 and 3 complete.		

Provide explanation if more than one project stage is checked as current status	Construction of Reach 1 Phase 2 and Reaches 2 and 3 is complete.
--	--

Tahoe Sierra IRWM

VIII. Project Technical Feasibility

Please provide any related documents (date, title, author, and page numbers) that describe and confirm the technical feasibility of the project.

<p>a. List the adopted planning documents the proposed project is consistent with or supported by (e.g. General Plans, UWMPs, GWMPs, Water Master Plans, Habitat Conservation Plans, TMDLs, Basin Plans, etc.)</p>	<p>General Plan, Railyard Master Plan</p>
<p>b. List technical reports and studies supporting the feasibility of this project</p>	<p>Trout Creek Restoration Design Report.</p>
<p>c. Concisely describe the scientific basis (e.g. how much research has been conducted) of the proposed project in 300 words or less.</p>	<p>The Trout Creek Restoration Design Report is a comprehensive report that analyzed ecological function, floodplains, wetlands, history and biological species in the development of the 30% design for all reaches (1 through 5). The 30% design was prepared by Swanson Hydrology and Geomorphology, affirm that a firm that specializes in restoration design. A Trout Creek Restoration Project – Phase 1 Preliminary Design Report has also been prepared, as well as existing conditions wetland delineation. A Trout Creek Hydrology report was prepared to estimate design flows. Finally, Swanson used the HEC-RAS model to determine pre and post project 100-year floodplain.</p>
<p>d. Does the project implement green technology (e.g. alternate forms of energy, recycled materials, LID techniques, etc.)</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>
<p>1. If so please describe</p>	<p>The project will incorporate Low Impact Development design where possible. Also, vegetation that is removed as part of the construction can be salvaged and transplanted back into the final project.</p>
<p>e. If you are an Urban Water Supplier¹:</p>	
<p>1. Have you completed an Urban Water Management Plan and submitted to DWR?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>
<p>2. Are you in compliance with AB1420?</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</p>

Tahoe Sierra IRWM

3. Do you comply with the water meter requirements (CWC §525)	<input type="checkbox"/> Yes <input type="checkbox"/> No xN/A
4. If the answer to any of the questions above is “no”, do you intend to comply prior to receiving project funding	<input type="checkbox"/> Yes <input type="checkbox"/> No xN/A
	Provide Explanation if necessary:
f. If you are an Agricultural Water Supplier²:	
1. Have you completed and submitted an AWMP (due 12/31/12)?	<input type="checkbox"/> Yes <input type="checkbox"/> No xN/A
2. If not, will you complete and submit an AWMP prior to receiving project funding?	<input type="checkbox"/> Yes <input type="checkbox"/> No xN/A
	Provide Explanation if necessary:
g. If the project is related to groundwater:	
1. Has a GWMP been completed and submitted for the subject basin?	<input type="checkbox"/> Yes <input type="checkbox"/> No xN/A
2. If not will a GWMP be completed within 1 year of the grant submittal date?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

1. Urban Water Supplier is defined as a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.

2. Agricultural Water Supplier is defined as a water supplier, either publicly or privately owned, providing water to 10,000 or more irrigated acres, excluding the acreage that receives recycled water.