

# Tahoe Sierra IRWM

## Project Template

Please provide information in the tables below:

### I. Project Proponent Information

<b>Agency/ Organization</b>	Town of Truckee
<b>Name of Primary Contact</b>	Jessica Thompson
<b>Name of Secondary Contact</b>	Dan Wilkins
<b>Mailing Address</b>	10183 Truckee Airport Road
<b>E-mail</b>	jthompson@townoftruckee.com
<b>Phone (###)###-####</b>	530-582-2938
<b>Other Cooperating Agencies/Organizations/Stakeholders</b>	Placer County, Lahontan Regional Water Quality Control Board
<b>Is your agency/organization committed to the project through completion? If not, please explain</b>	Yes

### II. General Project Information

<b>Project Title</b>	Town of Truckee Trash Control Program and Retrofits
<b>Project Category</b>	<input type="checkbox"/> <b>Water Supply/Wastewater</b> <input type="checkbox"/> <b>Restoration</b> <input checked="" type="checkbox"/> <b>Storm Water/Flood Control</b>
<b>Project Description (Briefly describe the project, in 300 words or less)</b>	<p>The goal of the project is to reduce trash generation and increase trash capture prior to trash reaching our rivers, streams, and lakes. The State Water Resources Control Board has adopted a Trash Control requirement, which is also amended into the Phase 2 NPDES permit Truckee is required to comply with. The Town is proposing to implement a Trash Control program in accordance with the new requirements. The program would consist of a combination of structural controls (trash capture devices) as well as education and outreach, operations and maintenance enhancement, volunteer based trash collection day, and trash generation initiatives and education.</p> <p>A pilot program would be implemented that installs various trash capture devices, both retrofits and new infrastructure and compares available products for use in the Truckee area for use in areas with snow, ice, pine needles, and deicing material. While many of these devices have been tested in non-snow areas, there is little information on the function of devices where snow and ice accumulate. The program will also incorporate public education and outreach on trash pollution and ways to reduce trash generation, such as reducing single use items and banning plastic bags. The program will include an annual volunteer based trash collection day. Operation and maintenance activity may</p>

## Tahoe Sierra IRWM

	include additional trash cans, increasing garbage can collection frequency, additional sweeping, and trash pickup on land and in the water including the Police dive team efforts. The program's main focus area will be the Truckee River, Donner Lake, and the tributaries near the Downtown/Brickelltown area, industrial, commercial, and high density residential.	
<b>Project Prioritization:</b>	<b>Total number of projects submitted by your Agency:</b>	<b>8</b>
	<b>Agency Prioritization of this project (e.g., 3 of 5)</b>	<b>7</b>
<b>Does this project contribute to a larger Project (e.g., TMDL, EIP, Phase 2 of 3) ? If so provide description.</b>	Yes, Middle Truckee River TMDL implementation, Truckee's Phase 2 NPDES permit, Truckee River Water Quality Monitoring Plan.	
<b>Political Support – List related MOUs, agreements or TACs currently in place.</b>		
<b>Project Location:</b>		
<b>Latitude:</b>	39.328667 N	
<b>Longitude:</b>	120.187658 W	
<b>Project Location Description (e.g., along the south bank of stream/river between river miles or miles from Towns/intersection and/or address):</b>	Implementation of structural trash capture devices in commercial, industrial, high density residential areas and education, maintenance and operation activity, and trash control initiatives focused on areas near the Truckee River, Donner Lake, and tributaries.	

### 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).

<b>Objectives:</b>	<b>Will the project address the objective?</b>	<b>Brief explanation of project linkage to selected Objective</b>	<b>Quantification</b> (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.	X Yes	This meets Lahontan Basin Plan Objectives, but the Middle Truckee River does not have a TMDL for trash, only sediment.	

## Tahoe Sierra IRWM

<b>Objectives:</b>	<b>Will the project address the objective?</b>	<b>Brief explanation of project linkage to selected Objective</b>	<b>Quantification</b> (e.g. acres of streams/wetlands restored or enhanced)
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	The project will install trash capture infrastructure to reduce trash in waterways and help meet WQOs of the Middle Truckee River.	Pre and post trash collection data.
WQ3 - Implement water quality monitoring programs through planning horizon, and coordinate annually throughout the Region.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Pre and post water quality monitoring data will be collected.	Pre and post water quality monitoring data.
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A		
WQ6 -Operate and maintain, build, or replace infrastructure for reliable collection, treatment and disposal of wastewater.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The project will install trash capture infrastructure to reduce trash in waterways and help meet WQOs of the Middle Truckee River.	Pre and post water quality monitoring data. Observation of new infrastructure for intended function during storms.
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		

## Tahoe Sierra IRWM

<b>Objectives:</b>	<b>Will the project address the objective?</b>	<b>Brief explanation of project linkage to selected Objective</b>	<b>Quantification</b> (e.g. acres of streams/wetlands restored or enhanced)
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 type="checkbox"/> Yes <input checked="" 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		
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	The program would install trash collection devices and enhance operation and maintenance activities, education and outreach to the public and trash reduction initiatives that will be applied to new development and existing areas.	Pre and post trash monitoring data.

## Tahoe Sierra IRWM

<b>Objectives:</b>	<b>Will the project address the objective?</b>	<b>Brief explanation of project linkage to selected Objective</b>	<b>Quantification</b> (e.g. acres of streams/wetlands restored or enhanced)
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	There are other jurisdictions required to comply with trash control that also have snow conditions. The pilot program would be beneficial to them also.	Collaboration with Placer County, Tahoe area.
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	Education and outreach would be a big component. Specific activities include reducing one-use items and the volunteer trash pick-up day.	Number of attendees and participants at the functions.
IWM4 - Promote activities that reduce flood risk.	<input type="checkbox"/> Yes <input type="checkbox"/> N/A		
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:

Truckee has a tourist based economy and one of the objectives will be reaching this population with education and outreach when they visit. The large influx of visitors tends to leave large amounts of trash in the destinations they visit.

## 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:		
<b>a. Native American Tribal Community considerations.</b>	<input type="checkbox"/> N/A	The Truckee River terminates in Pyramid Lake, located within the Pyramid Lake Paiute Tribe Reservation. Reductions in trash loads benefit this community and the fisheries they depend on including Lahontan Cutthroat Trout.
<b>b. Disadvantaged Community considerations<sup>1</sup>.</b>	<input checked="" type="checkbox"/> N/A	
<b>c. Environmental Justice<sup>2</sup> considerations.</b>	<input checked="" type="checkbox"/> N/A	
<b>d. Assist the Region in adapting to effects of climate change<sup>3</sup>.</b>	<input checked="" type="checkbox"/> N/A	
<b>e. Generation or reduction of greenhouse gas emissions (e.g. green technology).</b>	<input type="checkbox"/> N/A	Trash reduction activities and education, such as reducing or eliminating one-use items and the greenhouse gases generated in producing those items.
<b>f. Other expected impacts or benefits that are not already mentioned elsewhere.</b>	<input type="checkbox"/> N/A	Truckee/Tahoe is a largely tourist based economy centered on the outdoors. Maintaining a beautiful environment is beneficial to the tourist economy.

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>

Resource Management Strategy	Will the Project incorporate RMS?	Description, of how RMS to be employed if applicable
<b>Reduce Water Demand</b>		
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	
<b>Improve Operational Efficiency and Transfers</b>		

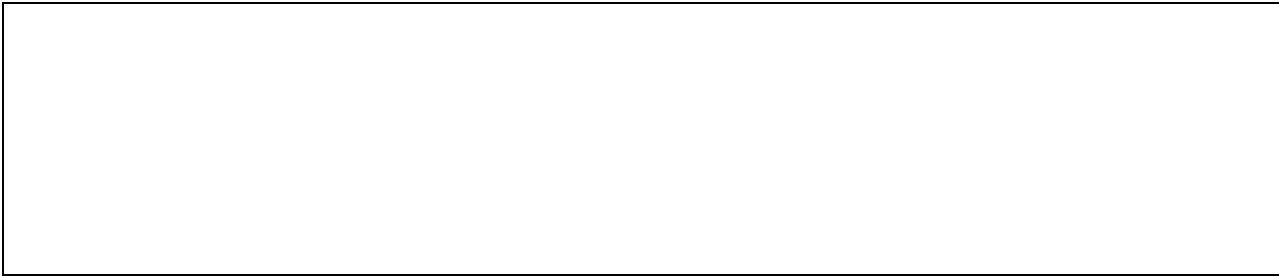
## Tahoe Sierra IRWM

Resource Management Strategy	Will the Project incorporate RMS?	Description, of how RMS to be employed if applicable
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	
<b>Increase Water Supply</b>		
Conjunctive Management & Groundwater	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Desalination	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Precipitation Enhancement	No	
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	
<b>Improve Water Quality</b>		
Drinking Water Treatment and Distribution	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the reduction and elimination of trash.
Groundwater and Aquifer Remediation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Matching Water Quality to Use	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the reduction and elimination of trash. The surface waters are used heavily for recreation and tourism activities.
Pollution Prevention	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the reduction and elimination of trash.
Salt and Salinity Management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Urban Runoff Management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the reduction and elimination of trash.
<b>Practice Resources Stewardship</b>		
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	Surface water sources are improved by the reduction and elimination of trash.
Forest Management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Land Use Planning and Management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the reduction and elimination of trash.
Recharge Areas Protection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Water-dependent Recreation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the reduction and elimination of trash.
Watershed Management	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface water sources are improved by the reduction and elimination of trash.
<b>Improve Flood Management</b>		
Flood Risk Management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

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

Other RMS addressed and explanation:

**Tahoe Sierra IRWM**





## 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.

<b>a. Project Costs</b>	<b>Requested Grant Amount</b>	<b>Cost Share: Non-State Fund Source (Local/Federal Funding Match)</b>	<b>Cost Share: Other State Fund Source</b>	<b>Total Cost</b>
1. Capital (2013 Dollars)	\$400,000	\$ OR <input type="checkbox"/> DAC		\$400,000/ 5 years
2. Annual Operations and Maintenance (O&M)		\$40,000		\$40,000
<b>b. Can the Project be phased?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>1. If so provide cost breakdown by phase(s)</b>	<b>Project Cost</b>	<b>O&amp;M Cost</b>	<b>Description of Phase</b>	
Phase 1	\$340,000	\$20,000	Installation of trash capture devices. Installation can be phased.	
Phase 2	\$70,000	0	Education and Outreach campaign and volunteer trash pick-up day.	
Phase 3	\$30,000	\$20,000	Operation and Maintenance enhancement (street sweeping, additional trash cans and trash collection, trash pick-up).	
Phase 4				
<b>c. List secured source(s) of funding for Project cost</b>		<b>Source(s)</b>	<b>Amount</b>	
		General Fund	\$30,600	
<b>d. List proposed source(s) of unsecured funding and certainty of the sources for Project cost.</b>		N/A	0	
<b>e. Explain how operation and maintenance costs will be financed for the 25-year planning period for project implementation (not grant funded).</b>		General Fund through on-going operations costs for Public Works and Facilities maintenance personnel.		
<b>f. Basis for project cost<sup>1</sup> (e.g. conceptual, planning, bid, etc.)</b>		Conceptual.		
<b>g. Has a Cost/Benefit analysis been completed?</b>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<b>h. Please describe what impact there may be if the project is not funded. (300 words or less)</b>		Many of the improvements will not be incorporated without funding to improve the drainage/BMPs.		

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)
<b>a. Assessment and Evaluation</b>	x	<input type="checkbox"/> Yes    xNo <input type="checkbox"/> N/A	Evaluate the locations for trash control retrofits. Also evaluate potential areas for new trash control infrastructure.	06/16	
<b>b. Final Design</b>	x	<input type="checkbox"/> Yes    xNo <input type="checkbox"/> N/A			
<b>c. Environmental Documentation (CEQA/NEPA)</b>	x <input type="checkbox"/>	<input type="checkbox"/> Yes    xNo <input type="checkbox"/> N/A			
<b>d. Permitting</b>	<input type="checkbox"/>	<input type="checkbox"/> Yes    xNo <input type="checkbox"/> N/A			
<b>e. Construction Contracting</b>	<input type="checkbox"/>	<input type="checkbox"/> Yes    xNo <input type="checkbox"/> N/A			
<b>f. Construction Implementation</b>	<input type="checkbox"/>	<input type="checkbox"/> Yes    xNo <input type="checkbox"/> N/A			

<b>Provide explanation if more than one project stage is checked as current status</b>	Additional planning would be required for the education and outreach component, and enhanced operation and maintenance activities. These activities will not require other tasks, such as permitting, or construction contracting, etc.
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## 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><b>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.)</b></p>	<p>Middle Truckee River TMDL, NPDES Phase 2 General Permit, Town of Truckee General Plan, Lahontan Basin Plan.</p>
<p><b>b. List technical reports and studies supporting the feasibility of this project</b></p>	
<p><b>c. Concisely describe the scientific basis (e.g. how much research has been conducted) of the proposed project in 300 words or less.</b></p>	<p>EPA/State Water Resources Control Board Trash Amendment. The trash control policy is a requirement of the State of California and various devices have been approved. However, there are still some unknowns as to how these function in our climate.</p>
<p><b>d. Does the project implement green technology (e.g. alternate forms of energy, recycled materials, LID techniques, etc.)</b></p>	<p>X Yes    <input type="checkbox"/> No    <input type="checkbox"/> N/A</p>
<p><b>1. If so please describe</b></p>	<p>Education and outreach for reduction of trash, and installation of devices that reduce water pollution.</p>
<p><b>e. If you are an Urban Water Supplier<sup>1</sup>:</b></p>	
<p><b>1. Have you completed an Urban Water Management Plan and submitted to DWR?</b></p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    xN/A</p>
<p><b>2. Are you in compliance with AB1420?</b></p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    xN/A</p>
<p><b>3. Do you comply with the water meter requirements (CWC §525)</b></p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    xN/A</p>
<p><b>4. If the answer to any of the questions above is “no”, do you intend to comply prior to receiving project funding</b></p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    xN/A</p>
<p>Provide Explanation if necessary:</p>	
<p><b>f. If you are an Agricultural Water Supplier<sup>2</sup>:</b></p>	
<p><b>1. Have you completed and submitted an AWMP (due 12/31/12)?</b></p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    xN/A</p>
<p><b>2. If not, will you complete and submit an AWMP prior to receiving project funding?</b></p>	<p><input type="checkbox"/> Yes    <input type="checkbox"/> No    xN/A</p>
<p>Provide Explanation if necessary:</p>	
<p><b>g. If the project is related to groundwater:</b></p>	

## Tahoe Sierra IRWM

<b>1. Has a GWMP been completed and submitted for the subject basin?</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<b>2. If not will a GWMP be completed within 1 year of the grant submittal date?</b>	<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.