

DRAFT Descriptions of Project Alternatives

Summary of Goals, Policies and Implementation Measures

Pathway Vision Statement: Exceptional water quality provides restored clarity, environmental and human health, and human enjoyment of Lake Tahoe waters.

Pathway Desired Conditions:

WQ.DC-1

Lake Tahoe Clarity: Restore and then maintain the waters of Lake Tahoe for the purposes of human enjoyment and preservation of its ecological status as one of the few large, deepwater, ultraoligotrophic lakes in the world with unique transparency, color and clarity.

WQ.DC-2

Human & Environmental Health: Water quality conditions in the Lake Tahoe Basin protect human and environmental health.

Ref#	Type	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5
1	G	WQ1 Reduce loads of sediment and algal nutrients to Lake Tahoe; meet sediment and nutrient objectives for tributary streams, surface runoff, and sub-surface runoff, and restore 80 percent of the disturbed lands.	Restore and maintain the water quality of Lake Tahoe for the purposes of human enjoyment and to preserve its ecological status as one of the few large, deepwater, ultraoligotrophic lakes in the world. Restore and maintain Lake Tahoe’s unique transparency, color and clarity.			

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1.1	P	<p>WQ1.1 Discharge of municipal or industrial wastewater to Lake Tahoe, its tributaries, or the groundwaters of the Tahoe Region is prohibited, except for existing development operating under approved alternative plans for wastewater disposal, and catastrophic wildfire protection to prevent the imminent destruction of the STPUD Luther Pass pump station.</p>	<p>Prohibit discharge of municipal or industrial wastewater to the surface or ground waters of the region, except for existing development operating under approved alternative plans for wastewater disposal and for catastrophic wildfire suppression efforts.</p>			<p>Same as Alternative 1</p>

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1.1.1	IM	Existing Implementation Measures	Amend the Code of Ordinances Water Quality Control Chapter to expand existing provision that allows limited discharges of treated municipal wastewater for catastrophic wildfire suppression efforts.			Same as Alternative 1
1.2	P	WQ1.2 All persons who own land and all public agencies which manage public lands in the Lake Tahoe region shall put Best Management Practices (BMPs) in place; maintain their BMPs; protect vegetation on their land from unnecessary damage; and restore the disturbed soils on their land.	Ensure all persons who own land, and all agencies which manage public lands in the region install Best Management Practices that are consistent with current defensible space requirements.			
1.3	P	None	Ensure long-term BMP effectiveness by requiring BMPs to be maintained.			
1.3.1	IM	Existing Implementation Measures	Consider increasing the percentage of mitigation fees for use in maintaining and operating BMPs (currently set at 25%).			

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1.4	P	None	Use the USFS BMP Handbook as the guiding document for applying BMPs on U.S. Forest Service lands within the region.			
1.5	P	WQ1.3 Application of BMPs to projects shall be required as a condition of approval for all projects.	Ensure implementation and maintenance of temporary and permanent BMPs as part of project approvals. Alternatively, constrained properties can meet BMP program requirements through area-wide water quality treatment solutions.			
1.6	P	WQ1.4 Restore at least 80 percent of the disturbed lands within the region.	Restore the native vegetation and the natural hydrologic function of the soil to at least 90 percent of the disturbed public lands within the region.	Restore the native vegetation and the natural hydrologic function of the soil to at least 80 percent of the disturbed public lands within the region.	Same as Alternative 1	
1.6.1	IM	Existing Implementation Measures	Identify disturbed public lands within the region and guide the restoration of at least 90 percent of them.	Identify disturbed public lands within the region and guide the restoration of at least 80 percent of them.	Same as Alternative 1	
1.7	P	WQ1.5 Units of local	Ensure local governments, state transportation departments and other implementing agencies restore the hydrologic function of Stream Environment Zones (SEZs) that have been disturbed,			

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		government, state transportation departments, and other implementing agencies shall restore 25 percent of the SEZ lands that have been disturbed, developed, or subdivided in accordance with the capital improvements program (part II).	developed, or subdivided.			
1.7.1	IM	Existing Implementation Measures	Adjust excess coverage mitigation fees to be commensurate with costs to purchase, deed restrict and restore disturbed SEZs.	Same as Alternative 1		

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1.8	P	<p>WQ1.6</p> <p>The use of fertilizer within the Tahoe Region shall be restricted to uses, areas, and practices identified in the Handbook of Best Management Practices. Fertilizers shall not be used in or near stream and drainage channels, or in stream environment zones, including setbacks, and in shorezone areas. Fertilizer use for maintenance of preexisting landscaping shall be minimized in stream</p>	<p>Prohibit the use of fertilizers that introduce additional nitrogen and phosphorous and prohibit the outdoor use of pesticides.</p>	<p>Limit fertilizer use to minimize nutrient loading to surface and ground water. Limit pesticide (insecticides, fungicide and herbicides) use to non-detectable levels in surface or ground waters.</p>		

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		environment zones and adjusted or prohibited if found, through evaluation of continuing monitoring results, to be in violation of applicable water quality discharge and receiving water standards.				
1.8.1	IM	Existing Implementation Measures	Incorporate prohibition of pesticides and fertilizers into BMP, defensible space and native vegetation guidelines and requirements. Prohibit discharge of pesticides, herbicides and fertilizers at golf courses, schools, play fields,	Amend Code of Ordinances Water Quality Control Chapter to specify the limitations of fertilizer use.		

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			commercial facilities, homeowners associations' common areas and other large users of turf.			
1.9	P	None	Adopt urban upland TMDL load allocations, interim targets and milestones for reducing fine sediment, total nitrogen and total phosphorous as the primary management standards for achieving water quality standards.			
1.9.1	IM	None	Amend code to include TMDL load allocations, milestone schedule and TRPA permit requirements to include findings and TMDL Load reduction requirements. Consider the impacts of federal TMDL requirements on water quality management and to advise and assist local jurisdictions in meeting their federal obligations.			
1.9.2	IM	Existing Implementation Measures	Amend Code to require the installation of BMPs on roads and trails that allow OHV or their decommissioning by 2015.	Same as Alternative 1		
1.10	P	None	Urban Areas: Ensure State and local jurisdictions to develop, adopt and implement stormwater	Ensure State and local jurisdictions develop, adopt and implement stormwater management plans, pollutant load reduction plans, or a functional equivalent, to guide the implementation of capital projects and operations and maintenance activities.		

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			management plans, pollutant load reduction plans, or a functional equivalent to guide the implementation of capital projects and operations and maintenance activities. Non-Urban Areas: Ensure Federal, State and local jurisdictions to develop, adopt and implement stormwater management plans, pollutant load reduction plans, or a functional equivalent, that are consistent with required load reductions for fine sediment,			

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			nitrogen and phosphorous.			
1.10.1	IM	None	Amend Code to specify required elements of TMDL stormwater management plans, pollutant load reduction strategies that are consistent with State requirements that meet the Lake Tahoe TMDL pollutant load reduction allocations for urban stormwater. Amend Code to require the use of the Lake Clarity Crediting Program to achieve clarity milestone schedule.			
1.11	P	None	Work with state and local jurisdictions to ensure roadway operations and maintenance programs employ advanced control measures to reduce fine particulate from road dust and surface runoff.			
1.11.1	IM	None	Amend Code to require that all traction materials on roadways demonstrate a high resistance to pulverization (to 20 micron or less particles) and zero or extremely low phosphorous content.	Same as Alternative 1		
1.12	P	None	Prohibit airborne loads of fine sediments and particulates from construction sites.	Reduce airborne and stormwater loads of fine particulates from unpaved roads and construction sites.		
1.12.1	IM	None	Identify paving of unpaved roads in the region as part of targeted BMP enforcement strategy.			

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1.12.2	IM	Existing Implementation Measures	Amend grading standards in Code to require dust control guidelines consistent with State Stormwater Pollution Prevention Plans, or a functional equivalent, for projects creating disturbance greater than one acre, and dust suppression plans for projects creating less than one acre of disturbances.			
1.13	P	WQ2.1 All persons engaging in public snow disposal operations in the Tahoe Region shall dispose of snow in accordance with site criteria and management standards in the Handbook of Best Management Practices.	Prevent the discharge of contaminants to SEZs, groundwater or surface water from snow storage and disposal operations.			
1.13.1	IM	Existing Implementation Measures	Amend Code to specify snow disposal and storage requirements.			
1.14	P	None	Require point-of-sale implementation	Increase point-of-sale real property BMP disclosure requirements.	Require point-of-sale implementation of BMPs or post a	

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			of BMPs.			financial guarantee.
1.14.1	IM	Existing Implementation Measures	Amend the BMP Requirements chapter in the BMP Retrofit Program section to require point-of-sale implementation of BMPs.	Amend the Code BMP Requirements chapter in the BMP Retrofit Program section to increase BMP point-of-sale real property disclosure requirements.		Amend the Code BMP Requirements chapter in the BMP Retrofit Program section to require point-of-sale implementation of BMPs or post a financial guarantee.
1.15	P	None	Implement a focused enforcement, implementation, maintenance, and inspection strategy to accelerate BMP compliance in high-priority areas as informed by the TMDL and assist local jurisdictions implementation of stormwater management plans using state-of-the-art technology and allowing for new technologies.			
1.15.1	IM	None	Amend Code and Rules of Procedure to develop a focused enforcement, implementation, maintenance, and inspection strategy.			
2	G	WQ2 Reduce or eliminate the addition of other pollutants which affect, or potentially affect, water quality in the Tahoe Basin.	Ensure water quality standards in the Lake Tahoe region are consistent with, and provide for, the protection of human and environmental health.			
2.1	P	None	Avoid significant risks to groundwater quality through infiltration of stormwater.			
2.1.1	IM	None	Consider amending Code to incorporate results of BMP effectiveness research concerning			

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			infiltration systems and seasonal high ground water interactions.			