

Region 1 – North Coast Regional Water Board Clean Water Act 319(h) Grant Preferences (2016)¹

TMDL Watershed	Implementation Projects TMDL Constituent(s)
Watershed Stewardship & Ranch/Farm Plan Projects (Initiative R1.5 – Watershed Stewardship Approach)	
Watersheds within the Klamath River Hydrologic Unit (includes Shasta River Watershed, Scott River Watershed, and California and Oregon watersheds in the Upper Klamath River Basin)	<p><u>Pollutants:</u> Biostimulatory Substances, Phosphorus, Nitrogen, Temperature, or Sediment</p> <p><u>Projects:</u> Implement projects, solutions, or management practices in accordance with a watershed stewardship plan (which may also be known as nine-key element watershed-based plan or a watershed strategy), ranch or farm water quality plan, manure management plan, sediment or erosion control plan, nutrient management plan, tailwater or irrigation management plan, or spring management plan. Examples of projects include pollutant discharge control, riparian restoration, nutrient management, water resource management, geomorphic channel restoration, and others. Projects may be adaptive management pilot projects to evaluate the restoration techniques. Projects may be associated with forestry, agriculture, or other non-point source land uses.</p> <p>The projects may include one or more of the following components:</p> <ul style="list-style-type: none"> • Project-specific planning, design, or permitting • Coordination with watershed partners <p>Upslope implementation, riparian, or instream water quality monitoring and reporting to assess effectiveness and provide feedback for adaptive management</p>
Elk River Watershed	
Watersheds within the Mendocino Coast Hydrologic Unit	
Eel River Watershed	
Large Wood Augmentation Projects (Initiative R1.3 – Mendocino Co Permit Coordination Program and Initiative R1.4 – Wood for Salmon Working Group)	
Watersheds within the Mendocino Coast Hydrologic Unit	<p><u>Pollutant:</u> Sediment</p> <p><u>Projects:</u> Implement large wood augmentation or enhancement projects. Projects should be focused in and along watercourses that provide coho salmon habitat.</p> <p>The projects may include one or more of the following components:</p> <ul style="list-style-type: none"> • Project-specific planning, design, or permitting • Coordination with watershed partners <p>Upslope implementation, riparian, or instream water quality monitoring and reporting to assess effectiveness and provide feedback for adaptive management</p>
Scott River Watershed	
Shasta River Watershed	

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TMDL Watershed	Implementation Projects TMDL Constituent(s)
Third-Party Programs for Agriculture and Marijuana Discharge Permit Implementation (Initiative R1.2 - Ag Lands Discharge Program)	
<p>Lower Lost River (Tule Lake) Watershed</p> <p>Watersheds heavily impacted by discharges from marijuana cultivation</p>	<p><u>Pollutants:</u> Biostimulatory Substances, Phosphorus, Nitrogen, Pesticides, Temperature, or Sediment</p> <p><u>Projects:</u> Implement management practices or provide technical assistance to farmers, ranchers, or growers through a third-party program that is constituted to comply with the Tule Lake agricultural waste discharge permit or the <i>Waiver of Waste Discharge Requirements and General Water Quality Certification for Discharges of Waste Resulting from Marijuana Cultivation and Associated Activities or Operations with Similar Environmental Effects in the North Coast Region.</i></p> <p>The projects may include one or more of the following components:</p> <ul style="list-style-type: none"> • Enrollment of farmers, ranchers, or growers in the third-party program • Project-specific planning, design, or permitting • Coordination with watershed partners • Education and advertisement of water quality projects and results <p>Upslope implementation, riparian, or instream water quality monitoring and reporting to assess effectiveness and provide feedback for adaptive management</p>

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Region 2 – San Francisco Bay Regional Water Board Clean Water Act 319(h) Grant Preferences (2016)¹

TMDL Watershed	Implementation Projects TMDL Constituent(s)
Tomales Bay (including tributaries)	Pathogens: Design and implement management measures/management practices according to ranch water quality plans (Ranch Plans), manure management plans (Manure Plans), and nutrient management plans (Nutrient Plans) developed to comply with grazing and confined animal facility permit requirements
	Sediment: Design and implement sediment reduction management measures/management practices as per Lagunitas Creek TMDL including but not limited to: creation of floodplain and secondary channels, the addition of LWD, and road sediment reduction projects
Walker Creek	Mercury: Implement management measures/management practices according to RWQPs (grazing and dairy waiver requirements)
Sonoma Creek	Sediment: Develop and implement vineyard management plans
	Sediment: Develop and implement road sediment reduction plans and management practices
Napa River	Sediment: Develop and implement vineyard management plans
	Sediment: Implement reach-scale projects to restore stream-riparian habitat complexity and connection to floodplains, and to balance fine and coarse sediment budgets
	Sediment: develop and implement rural road sediment reduction plans and management practices
Guadalupe River (including tributaries)	Mercury: Develop and implement mining waste remediation and erosion control
	Mercury: Develop and implement stream bank stabilization

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Region 3 – Central Coast Regional Water Board Clean Water Act 319(h) Grant Preferences (2016)¹

TMDL Watershed	Implementation Projects TMDL Constituent(s)
Salinas	<p><u>Nutrients:</u> Implement management measures in some or all of the priority TMDL subwatersheds (e.g. Moro Cojo Slough, Blanco, Old Salinas River/Tembladero and its upstream tributaries such as Reclamation Canal, Gabilan Creek, Santa Rita Creek, Natividad Creek, Espinosa Slough, Alisal Slough, and/or Merrit Ditch and in Quail Creek and/or Chular Creek) to reduce nutrient discharges to impaired waterbodies. Develop an industry-led sustainability certification (e.g. for strawberry operations) in selected priority TMDL subwatersheds.</p>
	<p><u>Pesticides and Toxicity:</u> Implement management measures in some or all of the priority TMDL subwatersheds (e.g. Old Salinas River, Tembladero, Salinas Reclamation, Alisal, and/or Quail) to reduce toxicity and pesticide discharges to impaired waterbodies.</p>
Pajaro	<p><u>Nutrients:</u> Implement management measures in some or all of the priority TMDL subwatersheds (e.g. Pajaro, Watsonville, Tequisquita, Llagas, Carnadero, Uvas, and/or San Juan) to reduce nutrient discharges to impaired waterbodies. Develop an industry-led sustainability certification (e.g. for strawberry operations) in selected priority TMDL subwatersheds.</p>
	<p><u>Pesticides and toxicity:</u> Implement management measures in some or all of the priority TMDL subwatersheds (e.g. Pajaro, Llagas downstream of reservoir) to reduce toxicity and pesticide discharges to impaired waterbodies.</p>
Santa Maria / Oso Flaco	<p><u>Nutrients:</u> Implement management measures in some or all of the priority TMDL subwatersheds (e.g. Oso Flaco, Orcutt/ Solomon, and/or Lower Santa Maria) to reduce nutrient discharges to impaired waterbodies. Develop an industry-led sustainability certification (e.g. for strawberry operations) in selected priority TMDL subwatersheds.</p>
	<p><u>Pesticides and Toxicity:</u> Implement management measures in some or all of the priority TMDL subwatersheds (e.g. Oso Flaco, Orcutt/Solomon, and/or Lower Santa Maria) to reduce toxicity, and pesticide and sediment discharges to/in impaired waterbodies.</p>

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Region 4 – Los Angeles Regional Water Board Clean Water Act 319(h) Grant Preferences (2016)¹

TMDL Watershed	Implementation Projects TMDL Constituent(s), Sources
Calleguas Creek	<p><u>Pollutant(s)</u>: Nutrients and pesticides.</p> <p><u>Sources</u>: Irrigated agriculture.</p> <p><u>Preferred projects</u>: Implement at individual farms or regional sites: sediment retention management practices, infiltration management practices, biofiltration management practices, tile drain treatment facilities, irrigation management practices, and/or nutrient management practices.</p>
Santa Clara River	<p><u>Pollutant(s)</u>: Nutrients and pesticides.</p> <p><u>Sources</u>: Irrigated agriculture, horses/livestock, onsite wastewater treatment systems.</p> <p><u>Preferred projects for irrigated agriculture</u>: Implement at individual farms or regional sites: sediment retention management practices, infiltration management practices, biofiltration management practices, tile drain treatment facilities, irrigation management practices, and/or nutrient management practices.</p>
McGrath Lake	<p><u>Pollutant(s)</u>: Pesticides</p> <p><u>Sources</u>: Irrigated agriculture</p> <p><u>Preferred projects</u>: Implement at individual farms or in Central Ditch: sediment retention management practices, infiltration management practices, biofiltration management practices, tile drain treatment facilities, irrigation management practices, and/or nutrient management practices.</p>
Marina del Rey Harbor	<p><u>Pollutant(s)</u>: Pesticides (copper)</p> <p><u>Source</u>: Boat hull paint</p> <p><u>Preferred projects</u>: Implement management practices to reduce copper loading from boats such as replacing copper-based antifouling paint with non-toxic coatings.</p>

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Region 5 – Central Valley Regional Water Board Clean Water Act 319(h) Grant Preferences (2016)¹

TMDL Watershed	Implementation Projects TMDL Constituent(s)
Sacramento-San Joaquin Delta	Mercury: Implement best management practices to minimize methylmercury production and discharge from irrigated agriculture, managed wetlands, and open water in the Delta and Yolo Bypass
	Chlorpyrifos and diazinon: Implement management practices (MPs) to reduce toxicity and pesticide discharges to impaired waterbodies; implement MPs according to Irrigated Lands Regulatory Program (ILRP) management plans
San Joaquin River	Chlorpyrifos and diazinon: Implement management practices (MPs) to reduce toxicity and pesticide discharges to impaired waterbodies; implement MPs according to Irrigated Lands Regulatory Program (ILRP) management plans
	Salt: Implement a real-time water quality management program for the entire SJR basin to export the maximum amount of salt out of the basin while at the same time meeting the EC water quality objectives
	Dissolved oxygen: Implement management practices (MPs) in upstream watershed (lower San Joaquin River and tributaries) to reduce nutrient discharges (aqueous and sediment-bound) upstream of the impaired reach of the Stockton DWSC; implement MPs according to Irrigated Lands Regulatory Program (ILRP) management plans
	Selenium: Implement activities that reduce the discharge of subsurface agricultural drainage from the Grassland Watershed to the San Joaquin River. Examples of such activities are described in the Westside Regional Drainage Plan
Clear Lake	Mercury: Implement best management practices to minimize erosion and transport of mercury-contaminated sediments
	Nutrients: Implement nutrient and sediment control projects; implement MPs according to the ILRP Management Plans
Sacramento River	Chlorpyrifos and diazinon: Implement management practices (MPs) to reduce toxicity and pesticide discharges to impaired waterbodies; implement MPs according to Irrigated Lands Regulatory Program (ILRP) management plans
Cache Creek	Mercury: Implement best management practices to minimize erosion and transport of mercury-contaminated sediments.

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**Region 6 – Lahontan Regional Water Board Clean Water Act 319(h) Grant Preferences
(2016)¹**

TMDL Watershed	Implementation Projects TMDL Constituent(s)
Blackwood Creek	<p><u>Pollutant(s):</u> Sediment, nutrients</p> <p><u>Preferred Projects:</u> Implement management measures to reduce sediment discharges such as watershed restoration, enhancement, and protection projects targeting nutrients and sediment; riparian restoration, and stream bank stabilization projects to reduce sediment and nutrient sources. May include project-level planning, design and monitoring.</p>
Indian Creek Reservoir	<p><u>Pollutant(s):</u> Nutrients</p> <p><u>Preferred Projects:</u> Implement management measures to reduce nutrient discharges such as watershed restoration, enhancement, and protection projects targeting nutrients; engineered nutrient treatment/removal, passive or active, projects; pilot scale, or full-scale implementation, nutrient management/control projects. May include project-level planning, design and monitoring.</p>
Squaw Creek	<p><u>Pollutant(s):</u> Sedimentation</p> <p><u>Preferred Projects:</u> Implement management measures to reduce sediment discharges such as watershed restoration, enhancement, and protection projects targeting sediment; riparian restoration, and stream bank stabilization projects to reduce sediment sources. May include project-level planning, design and monitoring.</p>
Tahoe, Lake	<p><u>Pollutant(s):</u> Nutrients, fine sediment.</p> <p><u>Preferred Projects:</u> Implement management measures to reduce nutrient and fine sediment discharges such as watershed restoration, enhancement, protection projects targeting nutrients and fine sediment. May include project-level planning, design and monitoring.</p>
Truckee River (Bronco and Gray Creeks)	<p><u>Pollutant(s):</u> Sediment</p> <p><u>Preferred Projects:</u> Implement management measures to reduce sediment discharges in reach of river from Lake Tahoe dam through Town of Truckee such as watershed restoration, enhancement, and protection projects targeting sediment; riparian restoration and stream bank stabilization projects to reduce sediment sources. May include project-level planning, design and monitoring.</p>
Truckee River, Upper	<p><u>Pollutant(s):</u> Nutrients</p> <p><u>Preferred Projects:</u> Implement management measures to reduce nutrient discharges such as watershed restoration, enhancement, and protection projects targeting nutrients; riparian restoration and stream bank stabilization projects to reduce nutrient sources. May include project-level planning, design and monitoring.</p>

Region 6 – Lahontan Regional Water Board Clean Water Act 319(h) Grant Preferences (2016)¹

TMDL Watershed	Implementation Projects TMDL Constituent(s)
Ward Creek	<p><u>Pollutant(s)</u>: Nutrients, sediment</p> <p><u>Preferred Projects</u>: Implement management measures to reduce nutrient and sediment discharges such as watershed restoration, enhancement, and protection projects targeting nutrients and sediment; riparian restoration and stream bank stabilization projects to reduce sediment and nutrient sources. May include project-level planning, design and monitoring.</p>

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Region 7 – Colorado River Regional Water Board Clean Water Act 319(h) Grant Preferences (2016)¹

TMDL Watershed	Implementation Projects TMDL Constituent(s)
Alamo River (International Boundary to Salton Sea)	<u>Sediment</u> : Develop and implement TMDL-required water quality management plans (Water Management Plans) and other management measures for agricultural drain discharges to reduce pollutants in impaired water bodies.
New River (Measure W watershed)	<u>Sediment</u> : Develop and implement TMDL-required Water Management Plans and other management measures for agricultural drain discharges to reduce pollutants in impaired water bodies.
	<u>Bacteria, trash, dissolved oxygen</u> : Develop and implement projects contained in the Strategic Plan: New River Improvement Project . ²
Imperial Valley Drains	<u>Sediment</u> : Develop and implement TMDL-required Water Management Plans and other management measures for agricultural drain discharges to reduce pollutants in impaired water bodies.
Coachella Valley Storm Channel	<u>E.coli</u> : Develop and implement TMDL-required Water Management Plans and other management measures to reduce pollutants in impaired water bodies.

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² California-Mexico Border Relations Council. 2011. *Strategic Plan: New River Improvement Project*. Prepared by the New River Improvement Project Technical Advisory Committee.

Region 8 – Santa Ana Regional Water Board Clean Water Act 319(h) Grant Preferences (2016)¹

TMDL Watershed	Implementation Projects TMDL Constituent(s)
San Diego Creek Reach 1 (Measure W watershed)	<p><u>Pollutant(s)</u>: Metals; organophosphate compounds; organochlorine compounds; nutrients; sediments; pathogens; selenium.</p> <p>Implement projects to control ambient and 'natural' known sources of impairments; implement sediment source control projects in undeveloped, open-space watersheds upstream of areas subject to the municipal separate storm water sewer system permit (Municipal Stormwater Permit).</p>
San Diego Creek Reach 2 (Measure W watershed)	<p><u>Pollutant(s)</u>: Metals; organophosphate compounds; organochlorine compounds; nutrients; sediments; pathogens; selenium</p> <p>Implement projects to control ambient and 'natural' known sources of impairments; implement sediment source control projects in undeveloped, open-space watersheds upstream of areas subject to the Municipal Stormwater Permit.</p>
Big Bear Lake	<p><u>Pollutants</u>: Nutrients (and sediment to which nutrients bind)</p> <p>Implement nutrient and sediment control and source control management practices in undeveloped, open-space and in watersheds upstream of areas subject to Municipal Stormwater Permit.</p> <p>Expand/ enlarge the existing hypolimnetic oxygenation system to further control flux of nutrients from lake sediment into water column.</p> <p><u>Pollutant(s)</u>: Mercury (and methyl mercury, which is more bio-available)</p> <p>Implement mercury load reduction management practices or methylation reduction strategies in the lake and/or watershed in undeveloped, open space watersheds upstream of areas subject to the Municipal Stormwater Permit.</p>
Canyon Lake	<p><u>Pollutants</u>: Nutrients</p> <p>Implement a program to control flux of nutrients from sediment into the water column.</p> <p>Implement management practices identified in the <u>Agricultural Nutrient Management Plan</u>.²</p>

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² Santa Ana Regional Water Quality Control Board (SARWQCB). 2013. *Agricultural Nutrient Management Plan (AgNMP) for the San Jacinto Watershed*, Prepared by The Western Riverside County Agriculture Coalition.

Region 9 – San Diego Regional Water Board Clean Water Act 319(h) Grant Preferences (2016)¹

TMDL Watershed	Implementation Projects TMDL Constituent(s), Sources
Shelter Island Yacht Basin	<p><u>Pollutant(s):</u> Copper</p> <p>Implement management practices to reduce copper loading from boats such as replacing copper-based antifouling paint with non-toxic coating.</p>
Rainbow Creek	<p><u>Pollutant(s):</u> Nitrate and phosphorus²</p> <p>Implement management practices consistent with the requirements of the Regional Water Board’s general WDRs for irrigated lands and nurseries (RB9 - Agriculture WDRs).</p>
Beaches in San Diego Region	<p><u>Pollutant(s):</u> Indicator bacteria ³</p> <p>Prioritize nonpoint sources of bacteria impacting one or more of the Region’s beaches such as horse ranches, dairies and dog beaches, develop a management measure implementation plan and implement best management practices to address the highest priority source at one of the identified beaches.</p> <p>Implement management practices consistent with the requirements of the RB9 - Agricultural WDRs in watersheds that directly impact the Region’s beaches.</p>
Baby Beach Dana Point Harbor	<p><u>Pollutant(s):</u> Indicator bacteria ³</p> <p>Prioritize nonpoint sources of bacteria impacting one or more of the Region’s beaches such as horse ranches, dairies and dog beaches and develop a management measure implementation plan that implements best management practices to address the highest priority source at one of the identified beaches.</p>
Tijuana River	<p><u>Pollutant(s):</u> Sediment and trash</p> <p>Prioritize nonpoint sources of sediment and trash, develop a management measure implementation plan and implement best management practices to address a high priority source at one of the identified beaches.</p>

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² Land uses are prioritized based on ambient monitoring data results and proximity to the creek. Actual load amounts from non-urban residential sources are lower in priority than agricultural land uses because the residential properties in this watershed are homes with orchards on the properties not the typical suburban neighborhood with manicured lawns and sidewalks, rendering their potential to contribute sources of nitrate and phosphorus lower than that of agriculture. Orchards are lower in priority for phosphorus because of limited phosphorus transport due to low erosion.

³ In the Lower San Juan HSA, San Luis Rey HU, San Marcos HS, and San Dieguito HA watershed agriculture, livestock, and horse ranch facilities generate more than 5% of the total wet weather load for all three-indicator bacteria.