

# **Appendix S.**

## **2019 Proposal Project Priorities**

Please Note: The identification of priority basins (as listed below) does not exclude the submission of proposals for work outside these basins. Exceptional proposals for projects that will enhance, restore and/or protect water quality may be considered.

## Eastern Region Project Priorities: TMDLs/303(d) development and implementation and watershed approach implementation

Basin / Priority Activity	Specific Location	Status: TMDLs/ 303(d) and Watershed Approach	Water Quality Problem	Project Need
Eastern Region Improved water quality	Region Wide		All	Targeted projects are those that will support other state or federal water quality-related work in the area (agricultural strategic implementation area project work, place-based planning efforts, habitat restoration efforts, water quality and/or implementation monitoring, etc.)
Malheur River Basin Projects that will enhance, restore, protect water quality	Malheur River Basin	TMDLs completed for chlorophyll (total phosphorus load allocation), bacteria and temperature (2010)	All	<p>For all three priority basins (Malheur River Basin, Mid-Columbia/Hood River Basin, or Umatilla River Basin) projects that incorporate more of the following components will score higher:</p> <ul style="list-style-type: none"> <li>• Will help to improve water quality (directly or indirectly)</li> <li>• Will effectively leverage other available partner funding</li> <li>• Are correlated with and/or adjacent to other water quality work (spatial continuity)</li> <li>• Will help to extend ongoing beneficial project work (temporal continuity)</li> <li>• Support other water quality-related work in the area (ie: agricultural strategic implementation area project work, place-based planning efforts, habitat restoration efforts, water quality, drinking water protection and/or implementation monitoring, etc.)</li> </ul>
Mid-Columbia Hood River Basin Projects that will enhance, restore, protect water quality	Western Hood Subbasin, Miles Creeks Subbasin	TMDLs completed for temperature	All	
Umatilla River Basin Projects that will enhance, restore, protect	Umatilla, Walla Walla and Willow Subbasins	TMDLs completed for temperature, sediment, aquatic weeds, algae and pH, nitrate, ammonia and bacteria (Umatilla); temperature (Walla Walla); and temperature, pH, bacteria (Willow Creek)	All	

**Eastern Region Project Priorities:  
TMDLs/303(d) development and implementation and watershed  
approach implementation**

<b>Basin / Priority Activity</b>	<b>Specific Location</b>	<b>Status: TMDLs/ 303(d) and Watershed Approach</b>	<b>Water Quality Problem</b>	<b>Project Need</b>
water quality		Watershed Assessments in progress		

**Eastern Region Project Priorities: Groundwater Management Areas**

<b>Basin / Priority Activity</b>	<b>Specific Location</b>	<b>Status: GWMA</b>	<b>Water Quality Problem</b>	<b>Project Need</b>
Lower Umatilla Basin Ground Water Management Area (LUBGWMA)  Action Plan Nitrate Reduction	Umatilla Subbasin  Middle Columbia Basin	Lower Umatilla Basin GWMA established in 1990	Nitrate-Nitrogen	Targeted projects include: <ul style="list-style-type: none"> <li>• Research and development of activities or products that will reduce nitrate and other pollutant loading to groundwater.</li> </ul>
Northern Malheur County Ground Water Management Area (NMCGWMA)  Nitrate Reduction	Lower Malheur River Subbasin	Northern Malheur County GWMA established in 1989	Nitrate-Nitrogen	Targeted projects include: <ul style="list-style-type: none"> <li>• Research and development of activities or products that will reduce nitrate and other pollutant loading to groundwater.</li> </ul>

## Eastern Region Project Priorities: Drinking water source protection

Basin/Priority Activity	Specific Location	Status: DWSP	Water Quality Problem	Project Need
All ER Basins	Public water supply wells that have significant nitrate risks.	Source Water Assessment is complete.	Nitrate	Targeted projects for reducing nitrogen loading to groundwater within the 10-year time-of-travel recharge zone for public water supply wells that have significant nitrate risks. (> 50% safe drinking water MCL levels). Activities that supplement GWMA or other related implementation activities will be given priority.
All ER Basins: Public drinking water source areas (see <a href="http://www.oregon.gov/deq/wq/programs/Pages/DWP-Maps.aspx">http://www.oregon.gov/deq/wq/programs/Pages/DWP-Maps.aspx</a> for locations)	Drinking water source areas with focus on riparian areas/sensitive areas affecting intakes and sensitive areas contributing to groundwater wells.	Updated source water assessments complete. GIS and other technical assistance available.	Sediment, bacteria, turbidity, nutrients, harmful algae blooms, pesticides, and other toxins.	Projects that address higher risk non-point pollution sources as documented in DEQ/OHA Source Water Assessments or public water system Drinking Water Protection Plans. Priority will be given to projects that include multiple stakeholders and address drinking water threats, as well as impairment of other beneficial uses.

**Western Region Project Priorities:  
TMDLs/303(d) development and implementation**

Western Region Basin/ Priority Activity	Specific Location	Status: TMDLs/303(d)	Water Quality Problem	Project Need
Rogue Basin	Upper Rogue Middle Rogue Lower Rogue Applegate Illinois, Bear Creek	TMDLs Adopted and 303(d) listings	Temperature Bacteria Nutrients and/or Sedimentation Mercury Cyanobacteria Bacteria-shellfish turbidity	<ul style="list-style-type: none"> <li>• Implementation of efforts identified in Water Quality Implementation Plans (WQIP) or Water Quality Management Plans (WQMP)</li> <li>• TMDL implementation and effectiveness monitoring</li> </ul>
Willamette River Basin	Middle and Upper Willamette, including subbasins in Table 3.	TMDL Development and Implementation, 303(d) listed, Drinking Water Source areas, Southern Willamette Valley GWMA	Beneficial use impairments due to: Bacteria Dissolved Oxygen Iron Pesticides( Legacy & Current) Mercury Nutrients: Phosphorous, and Nitrogen as Nitrate and Ammonia Temperature	<ul style="list-style-type: none"> <li>• Partnerships within the same subbasin that coordinate to implement best management practices for improving the quality of stormwater runoff, and / or</li> <li>• Focus on reducing water quality problems to meet beneficial uses.</li> <li>• Priority will be given to projects that address both impaired surface waters and public drinking water source areas.</li> </ul>
Mid-Coast Basin  Assessment and Pollutant Source Characterization  Agricultural BMP Implementation: Riparian Restoration, Nutrient Reduction, Fine Sediment Reduction	Siletz- Yaquina and Siuslaw subbasins	Section 303(d) listings or documented impairments; TMDLs being developed	Beneficial use impairments due to bacteria, elevated temperature, reduced dissolved oxygen levels & fine sediment or turbidity	<ul style="list-style-type: none"> <li>• Water quality monitoring, land condition assessment (riparian, bank condition, upland and roads) and evaluation of current management practices to better quantify sources of nonpoint source (NPS) pollutant loading, characterize trends and assist with prioritization of sites for best management practices (BMP) implementation;</li> <li>• BMP implementation to improve riparian conditions towards and/or reduce nonpoint source pollution;</li> </ul>

				<ul style="list-style-type: none"> <li>• Development and implementation of fine sediment reduction projects to reduce turbidity and fine sediment delivery on 303(d) listed streams and tributaries and streams with evidence of impairments.</li> </ul> <p>Projects within public drinking water source areas will receive higher priority.</p> <p>Projects coordinated with and/or adjacent to other NPS assessment or pollution reduction projects will be given priority.</p>
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Western Region Basin/ Priority Activity	Specific Location	Status: TMDLs/303(d)	Water Quality Problem	Project Need
<p>South Coast Basin</p> <p>Coquille Subbasin</p> <p>Urban Water Quality Implementation Planning</p>	<p>Cities of Bandon, Coquille, Myrtle Point, and Powers.</p>	<p>TMDL and WQMP are near completion (2019)</p> <p>303d listed Bacteria, temperature, dissolved oxygen, pH, chlorophyll a, algae (HABS), biological criteria.</p>	<p>Elevated bacteria, nutrient and thermal loads</p>	<p>DEQ seeks proposals from Coquille Subbasin cities to conduct Water Quality Implementation Planning.</p> <p>Upon approval of the Coquille TMDL in 2019, DEQ will identify Coquille Sub-basin cities as Designated Management Agencies. As DMAs these cities will be required to develop plans describing how properties and stormwater facilities will be managed to control bacteria, nutrient and thermal loading to surface waters.</p> <p>These plans must identify what strategies will be implemented, timelines for implementation, and measurable milestones. Stormwater management measures may include public education and involvement, illicit discharge control, construction and post construction runoff control and pollution prevention.</p> <p>WQIPs developed by these small coastal communities will serve as examples for other communities facing the same task. Cities are encouraged to partner during plan development as the required components will be common to all four cities.</p>
<p>South Coast Basin</p> <p>Coquille Subbasin</p> <p>Actions that lead to impairment pollutant load reductions.</p>	<p>AgWQMP focus areas, direct tributaries to the Coquille River and public drinking water source areas</p>	<p>TMDLs Adopted and 303(d) listings sedimentation, phosphorus and aquatic weeds</p>		<p>DEQ seeks proposals which implement or support the implementation of projects designed to reduce bacteria, nutrient and thermal loading. Projects in this category may involve action planning and project development and/or implementation.</p>
<p>South Coast Basin</p> <p>Tenmile Lakes Subbasin</p> <p>Actions that lead to impairment</p>	<p>Cities, Counties, and agricultural areas in the Tenmile Lakes subbasin</p>		<p>Elevated sediment and phosphorus loads</p>	<p>Implementation of efforts identified in Water Quality Implementation Plans (WQIP) or Water Quality Management Plans (WQMP)</p> <p>TMDL implementation planning and adaptive management activities, including code/ordinance review, particularly targeting post construction stormwater management and riparian buffers</p>

pollutant load reductions and implementation of WQIP				Targeted projects that would: lead to reductions in sediment and nutrient load reductions, wetland protection and restoration, and riparian protection and restoration.
Umpqua Basin: Water Quality Implementation Plan (WQIP) Development & Revision	Land use under local government jurisdiction	TMDLs Issued	Temperature, bacteria, nutrients and dissolved oxygen impairments	Technical assistance to local government Designated Management Agencies (DMAs) - small municipalities and Douglas County - for WQIP development, revision and implementation for all impairments addressed in the Umpqua Basin TMDLs relevant to each DMA's jurisdiction. Projects involving multiple DMAs will receive higher priority. Planning areas within public drinking water source areas will receive higher priority.
Midcoast Basin South Coast Basin: Coquille Sub-basin Umpqua Basin: South Umpqua Sub-basin	Public drinking water source areas	Updated source water assessments complete. GIS and other technical assistance available.	Sediment, bacteria, turbidity, nutrients, harmful algae blooms, pesticides, and other toxins.	Projects that address higher risk non-point pollution sources as documented in DEQ/OHA Source Water Assessments or public water system Drinking Water Protection Plans. Priority will be given to projects that include multiple stakeholders and address drinking water threats, as well as impairment of other beneficial uses.

**Northwest Region Project Priorities:  
TMDLs/303(d) development and implementation watershed approach  
implementation**

Basin/ Priority Activity	Specific Location	Status: TMDLs/303(d)	Water Quality Problem	Project Need
Lower Willamette Subbasins/ TMDL Implemen- tation	Clackamas, Lower Willamette, Molalla, Tualatin and tributaries	TMDLs completed  <a href="http://www.oregon.gov/deq/wq/tmdls/Pages/TMDLs-Willamette-Basin.aspx">http://www.oregon.gov/deq/wq/tmdls/Pages/TMDLs-Willamette-Basin.aspx</a>	Temperature  Bacteria  Mercury  Dissolved Oxygen  Nutrients (phosphorus)  Toxics (including pesticides)  Algae  Biological criteria	Riparian and in-channel restoration (e.g. native planting, erosion control, large wood placement)  Toxics (including pesticides) reduction  Nutrient reduction , including reduction from septic systems  Innovative stormwater planning, tools and projects  Agriculture practices that reduce erosion, runoff, riparian degradation  Surface and groundwater conservation projects  TMDL implementation planning and adaptive management, including code/ordinance review, particularly stormwater management and riparian buffers  Effectiveness monitoring of restoration/pollution reduction projects or TMDL implementation strategies  Projects within public drinking water source areas may receive additional consideration for addressing this beneficial use
Sandy Basin		TMDLs completed  <a href="http://www.oregon.gov/deq/wq/tmdls/Pages/TMDLs-Sandy-Basin.aspx">http://www.oregon.gov/deq/wq/tmdls/Pages/TMDLs-Sandy-Basin.aspx</a>	Temperature Bacteria Toxics Biological criteria	Riparian an in-channel restoration (e.g. native planting, erosion control, large wood placement)  Toxics (including pesticides) reduction  Nutrient reduction, including reduction from septic systems  Innovative stormwater planning, tools and projects  Agriculture practices that reduce erosion, runoff, riparian degradation  TMDL implementation planning and adaptive management, including code/ordinance review, particularly targeting stormwater management and riparian buffers

**Northwest Region Project Priorities:  
TMDLs/303(d) development and implementation watershed approach  
implementation**

Basin/ Priority Activity	Specific Location	Status: TMDLs/303(d)	Water Quality Problem	Project Need
				Effectiveness of restoration/pollution reduction projects or TMDL implementation strategies  Projects within public drinking water source areas may receive additional consideration for addressing this beneficial use
North Coast, Tillamook Bay/TMDL Implementation		TMDLs completed (temperature, bacteria)  <a href="http://www.oregon.gov/deq/wq/tmdl/Pages/TMDLs-Basin-N-Coast.aspx">http://www.oregon.gov/deq/wq/tmdl/Pages/TMDLs-Basin-N-Coast.aspx</a>  TMDLs in progress (dissolved oxygen)	Temperature  Bacteria  Dissolved Oxygen	Riparian and in-channel restoration (e.g. native planting, erosion control, large wood placement).  Agriculture BMPs (includes fencing & digester projects)  Innovative stormwater planning, tools and projects  Projects within public drinking water source areas may receive additional consideration for addressing this beneficial use

**Northwest Region Project Priorities: Drinking water source protection**

Basin/Priority Activity	Specific Location	Status: DWSP	Water Quality Problem	Project Need
All NWR Basins: Public drinking water source areas (see <a href="http://www.oregon.gov/deq/wq/programs/Pages/DWP-Maps.aspx">http://www.oregon.gov/deq/wq/programs/Pages/DWP-Maps.aspx</a> for locations)	Drinking water source areas with focus on riparian areas/sensitive areas affecting intakes and sensitive areas contributing to groundwater wells.	Updated source water assessments complete. GIS and other technical assistance available	Sediment, bacteria, turbidity, nutrients, harmful algae blooms, pesticides, and other toxins.	Projects that address higher risk non-point pollution sources as documented in DEQ/OHA Source Water Assessments or public water system Drinking Water Protection Plans. Priority will be given to projects that include multiple stakeholders and address drinking water threats, as well as impairment of other beneficial uses.

# Statewide project priorities

Basin / Priority Activity	Specific Location	Status: TMDLs/ 303(d) and Watershed Approach	Water Quality Problem	Project Need
<b>Current and past National Water Quality Initiative Watersheds/ Monitoring</b>	Brandy Creek (Willamette/ Molalla-Pudding), Willow Creek (Middle Snake-Boise/ Willow), Fifteenmile Creek (Middle Columbia/ Middle Columbia-Hood), and Lost River (Klamath/Lost)	Category 3 and 5 (303-d) for sedimentation in Middle Columbia – Hood, TMDLs developed for other parameters of interest in other NWQI watersheds.	Temperature, Bacteria, Dissolved Oxygen, Nutrients, Toxics, Algae, pH, Ammonia toxicity, Sedimentation	NRCS and EPA launched the NWQI (national water quality initiative) to reduce NPS pollution related to agriculture in high priority watersheds. DEQ is directed by EPA to assess the impact of conservation practices on water quality. Monitoring projects with clear goals and objectives with methods, as well as strong local partnerships will be given priority.

Basin / Priority Activity	Water Quality Problem	Project Need
<b>Statewide</b> Ground and canopy/surface elevation data collection		Targeted collection and production of high resolution surface elevation models using orthoimagery and Dense Image Matching (DIM), or Light Detection and Ranging (LiDAR) collected and produced consistent with the USGS 3DEP standards or those used by the Oregon LiDAR Consortium.
<b>Lakes</b>	Nutrients, Algae, Invasive weeds, pH	Invasive weed and algae prevention/education efforts Non-pesticide invasive weed control Water quality, phytoplankton, and plankton project effectiveness monitoring
Public drinking water source areas	Sediment, bacteria, turbidity, nutrients, harmful algae blooms, pesticides, and other toxins.	Projects that address higher risk non-point pollution sources as documented in DEQ/OHA Source Water Assessments or public water system Drinking Water Protection Plans. Priority will be given to projects that include multiple stakeholders and address drinking water threats, as well as impairment of other beneficial uses.