

Oregon §319 Nonpoint Source Implementation Grants

Request for Proposals and application information

Fiscal Year 2017



Watershed Management

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DEQ is a leader in restoring, maintaining and enhancing the quality of Oregon's air, land and water.



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Department of
Environmental
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Request for Proposals

Oregon 319 Nonpoint Source Implementation Grants Application Fiscal Year 2017

The Oregon Department of Environmental Quality (DEQ) invites stakeholders to apply for Clean Water Act §319 Nonpoint Source (NPS) Grants to support implementation and planning projects that address water quality problems in surface and groundwater resources resulting from NPS pollution. DEQ is seeking proposals from government agencies, tribal nations and nonprofit organizations for projects that will lead to the restoration of beneficial uses in impaired water bodies or the protection of beneficial uses in unimpaired water bodies.

Funds will be made available through the U.S. Environmental Protection Agency (EPA) under §319 of the Clean Water Act to support a wide variety of potential nonpoint source pollution management activities, including:

- technical assistance
- waterbody assessment
- public awareness and education
- training
- technology transfer
- demonstration projects
- project effectiveness monitoring.

Proposals are due by 5:00 pm, May 26th, 2017 (see Table 1 for locations and Section 7 for submittal requirements).

Proposals will be evaluated by DEQ staff to identify those projects that best address the State's nonpoint source priorities (see Section C). DEQ will contact applicants by June 16th, 2017, to inform them whether or not their pre-proposal will be included in the funding priority list.

DEQ will evaluate application submittals and select projects for recommendation to EPA for funding consideration. Those applicants recommended for funding will be invited to provide additional work plan information upon confirmation of EPA's §319 grant budget approval. Successful projects may commence after DEQ receives the award from EPA (likely Fall 2017) and the applicants have been notified.

2017 Budget

We do not know the 319 funding level Oregon will receive for 2017. We anticipate learning of EPA's budget allocation to Oregon's 319 program by May of 2017. There is a chance that the budget may be reduced or delayed because of various reasons, including EPA's continued action on Oregon's Coastal Nonpoint Pollution Control Program, and the uncertainty of EPA's funding.

Section A: Proposal Information

1. Introduction

Oregon's §319 NPS Grant Program is administered by DEQ and provides funding to eligible stakeholders for supporting activities that address the goals and objectives of Oregon's NPS Management Program. Through §319(h), EPA provides federal funds to States on an annual basis for the development and implementation of each State's NPS Management Program. The §319 NPS Grant funds are primarily intended for organizational capacity development, implementation activities (including monitoring used to support TMDL development), and measuring progress towards achieving TMDL allocations. Project priorities for §319 NPS Grants are identified by DEQ's NPS staff and are used in the development of this request for proposals (see Section C).

2. Who Can Apply?

The following governmental agencies and non-profit organizations are eligible to receive 319 Grants. Other groups may also apply for grant funding by partnering with the following organizations:

Oregon Municipalities (cities and counties)	State
Non-profit Organizations	Agencies/Universities
Special Districts in Oregon, including	Tribal Nations
Conservation Districts	Regional Planning Commissions
Watershed Councils/Associations	Water Suppliers

Note that grant funds may be used to sub-contract with private entities, such as environmental consulting or engineering firms, in order to complete portions of projects that are beyond the capacity of the grantee organization.

3. Eligible Projects

Proposals submitted to DEQ **must directly address one or more of the listed priorities included in Section C**. In addition, proposals must describe how the project will contribute to achieving measurable environmental results and be feasible, practical and cost effective. The appropriate DEQ contact person can assist with identifying NPS priorities in the applicant's area and providing guidance on the development of an application. Contact information can be found in Table 3.

Because of limited funding, DEQ encourages Applicants to limit their request to no more than \$30,000 in requested grant funds.

DEQ encourages projects that involve collaborative stakeholder partnerships to engage state, local, federal and/or tribal nations. Cooperative efforts not only help to ensure effective coordination of funding and adequate match from diverse sources, but also often yield the greatest water quality benefit.

4. Ineligible Projects

The following types of projects are low priorities for the NPS Program and will not be considered for funding:

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- Projects that install management practices to meet MS4 permit requirements, with the exception of demonstration projects directly transferable to other communities;
- On-site wastewater treatment system projects for routine maintenance or repair of existing on-site (septic) systems;
- Routine replacement of culverts;
- Projects to specifically protect (or replace failing?) infrastructure on U.S. Forest Service or Bureau of Land Management roads or lands.

5. Project Requirements

The proposed project must meet the following minimum requirements:

- a) The project must **address a priority in Section C**.
- b) The project must include a discussion on a **method for verifying project success** with an emphasis on demonstrated environmental improvement.
- c) Proposals selected for funding must provide **at least 40%** of the total project cost (§319 funds requested + minimum match) as match using non-federal funds and/or in-kind services (e.g., volunteer time and effort). Successful grant recipients must submit **documentation of project match to DEQ meeting the format and criteria provided with the final NPS Agreement**.

To calculate the minimum required match, multiply the amount of §319 funds you are requesting for your project by $2/3$.

For example, if the §319 contribution cost (grant request) to the proposed project is:	The minimum required match amount is calculated by multiplying by $2/3$	Total cost of project would be:
\$30,000	\$20,000	\$50,000
\$15,000	\$10,000	\$25,000

Applicants are encouraged to investigate partnering opportunities with the Oregon Watershed Enhancement Board grant program: <http://www.oregon.gov/OWEB/GRANTS/pages/index.aspx>

- d) Applicants with projects that include a water quality monitoring component will be required to **develop sampling and analysis procedures, methods and strategy**. For information on this subject, please refer to the documents listed on the DEQ web page: <http://www.deq.state.or.us/lab/techrpts/technicaldocs.htm>. Successful applicants proposing a monitoring strategy will be required to:
 - Follow a DEQ-approved SAP (for volunteer monitoring organizations) or develop a QAPP or sampling and analysis plan for DEQ approval prior to data collection.
 - Submit electronic data to DEQ at the conclusion of the project.
- e) Grant Recipients must enter into a **Grant Agreement** with the State of Oregon to receive funds. The State of Oregon requires the following documentation for execution of Grant Agreements:
 1. Signed “Grant Agreement” form (the “contract”), which is provided by DEQ and signed by the grantee organization.

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2. Signed Data Universal Numbering System/Federal Funding Accountability and Transparency Act (DUNS/FFATA) Certification form - provided by DEQ and signed by project implementers (Note: The DUNS/FFATA Certification indicates that the organization has a DUNS Number and is eligible to receive federal funds (www.fsr.gov)).
 3. The grant recipient's cost reimbursement and disbursements will be made only in accordance with the schedule and requirements contained in the Workplan (Exhibit A of the agreement). Recipient is entitled to reimbursement of indirect costs if it has a current indirect cost rate approved by its federal cognizant agency or the Recipient will receive a 10% de minimis indirect rate as a percent of modified total direct costs as stated in 2 CFR Part 200.
 4. Match expenditures must be reported with all invoices using the Nonpoint Source Grant Agreement Expenditures/Match Report form that will be provided (Exhibit B). If the match reported does not correspond with the invoiced amount, a plan for when the match will be fulfilled must be provided. The plan must be approved by the correspondent Project Officer and Financial Services Manager or Designee.
 5. Agreement to enter project implementation information into the Oregon Watershed Restoration Inventory. (This database originated as the means to track detailed information about the restoration efforts undertaken in the name of the Oregon Plan for Salmon and Watersheds).
- f) Organizations are required to make a good faith effort to **hire disadvantaged businesses**. A list of disadvantaged business enterprises is available at the Oregon Business Development Department website identified in the following link:
- <https://oregon4biz.diversitysoftware.com/FrontEnd/VendorSearchPublic.asp> is available on or on the [U.S. Small Business Administration site](http://www.sba.gov). For assistance, contact Ivan Camacho at (503)229-5088, or camacho.ivan@deq.state.or.us.
- g) **Annual progress reports** and a **final report** are required. Progress reports provide an opportunity for grantees to share information regarding progress toward meeting performance targets and enable DEQ staff to offer assistance in meeting those targets. A final report describing the implementation strategy and accomplished results is required. If appropriate, the report would need to include loading reduction estimates for N, P Sediment and Dissolved Oxygen. A form to report the estimates will be provided. Contact Ivan Camacho for information

6. Evaluation Criteria

DEQ staff will evaluate Proposals. Reviewers will be looking for the following:

- Project addresses a defined water quality
- Potential for project to achieve measurable results
- Project supports larger watershed/area wide effort
- A clear and concise environmental outcome statement
- Project is a state or regional geographic priority listed in Section C

7. How Do I Apply?

Submit a signed copy of the fillable proposal form (Section B of this document) via mail, e-mail, or hand delivered to the appropriate DEQ office, by **5:00 pm on May 26th, 2017**. Include with your submittal an electronic copy, Word/Excel file format, to Ivan Camacho at camacho.ivan@deq.state.or.us. Facsimiles are not accepted.

If your file is too large to be e-mailed (>8 MB), please provide electronic files on CD or DVD.

Ivan Camacho
Oregon 319 Grants Administrator
Oregon Department of Environmental Quality
700 NE Multnomah Street, Suite 600
Portland, OR 97232
VOICE: (503) 229-5088
FAX: (503) 229-6037

Table 1. Oregon DEQ regional office locations and contact information

Office	Address	Phone number
Bend	475 NE Bellevue Dr., Suite 110 Bend, OR 97701	(541) 388-6146
Coos Bay	381 N. Second St. Coos Bay, OR 97420	(541) 269-2721
Eugene	165 East 7th Avenue, Suite 100 Eugene, OR 97401	(541) 686-7838
Medford	221 Stewart Ave., Suite 201 Medford, OR 97501	(541) 776-6010
Northwest Region	Oregon Department of Environmental Quality 700 NE Multnomah Street, Suite 600 Portland, OR 97232	(503) 229-5263
Pendleton	800 SE Emigrant, #330 Pendleton, OR 97801	(541) 276-4063
Salem	4026 Fairview Industrial Dr. SE Salem, OR 97302	(503) 378-8240
The Dalles / Columbia Gorge	400 E Scenic Dr., #307 The Dalles, OR 9705	(541) 298-7255
Tillamook Office	2310 First Street, Suite 4 Tillamook, OR 97141	(503) 842-3038

Table 2. Process and dates for 2017 319 Grant Program

Process	Time Frame
Request for Proposals released.	April 12th, 2017
Deadline for submission of Proposals.	May 26th, 2017
Deadline for submittal of full proposals and DUNS/FFATA Certification.	To be determined
Submit final project selection list to EPA for review and notify applicants of DEQ funding recommendations	To be determined
DEQ and Recipients develop draft work plan (Exhibit A) to be included in NPS grant agreement *	To be determined
DEQ Contract Office review of grant agreements**.	To be determined
Signature process and approval.	To be determined
Project may begin.	To be determined

* Recommendation of work plan to be included in NPS agreement depends on availability of federal 319(h) funds. Federal §319 budget is dependent on Congress's release of funds to EPA and is beyond DEQ's control. Continued budget reduction is likely due to EPA/NOAA disapproval of Oregon's Coastal Nonpoint Pollution Control Program.

** If an Applicant has not submitted necessary documentation necessary to develop the NPS agreement, this process may be delayed.

8. Additional More Information

For additional information and assistance regarding grant applications, please contact Ivan Camacho at (503) 229-5088 or refer to the DEQ staff contact information for regional staff contacts. You can also visit: <http://www.oregon.gov/DEQ/Pages/Offices.aspx> for a list of regional offices and addresses.

Table 3. DEQ staff contact information

REGION	BASIN (S)/GROUNDWATER MANAGEMENT AREAS (GWMA)	STAFF	PHONE #
Eastern	Burnt – Powder River	John Dadoly	(541) 278-4616
	Deschutes	Bonnie Lamb	(541) 633-2027
	Goose and Summer Lakes	Tonya Dombrowski	(541) 278-4615
	Grande Ronde, Imnaha, Wallowa		
	Hood	Bonnie Lamb	(541) 633-2027
	John Day	Tonya Dombrowski	(541) 278-4615
	Klamath	Mike Hiatt	(541) 273-7002
	Malheur Lakes Basin (Steens and Alvord area)	Tonya Dombrowski	(541) 278-4615
	Malheur River (including Willow and Bully Creeks)	John Dadoly	(541) 278-4616
	North Malheur County and Lower Umatilla Basin GWMA	Phil Richerson	(541) 278-4604
	Owyhee River Snake River-Hell's Canyon Umatilla, Walla Walla Willow Creek Subbasin	Tonya Dombrowski	(541) 278-4615
Northwest	Clackamas & Sandy	Karen Williams	(503) 229-6254
	Molalla- Pudding	Beth Moore	(503)-229-6402
	Tillamook & North Coast	Jennifer Purcell	(971) 212-5745
	Tualatin	Steve Mrazik	(503) 229-5379
	Willamette – Lower	Andrea Matzke	(503) 229-5350
Statewide	Drinking Water Source Protection	Sheree Stewart Jacqueline Fern	(503) 229-5413 (541) 686-7898
	Monitoring, Quality Assurance	Steve Hanson	(503) 693-5737
	NPS Education	Ivan Camacho	(503) 229-5088
	Riparian Forest Restoration	Josh Seeds	(503) 229-5081
	State Revolving Fund	Leanne Lawrence	(503) 229-5622
	Pesticide Stewardship Program	Kevin Masterson	(503) 229-5615
	NWQI	Koto Kishida	(503) 229-6381
Western	Drinking Water Source Protection	Jaqueline Fern	(541) 686-7898
	Mid-Coast, Umpqua	David Waltz	(541) 687-7345
	Rogue Basin	Bill Meyers	(541) 776-6272
	South Coast	Pam Blake or Bryan Duggan	(541) 269-2721 x227 or x234
	Willamette – Middle, including: North Santiam, Pudding, Yamhill	Nancy Gramlich	(503) 378-5073
	Willamette – Upper, including: S. Santiam, Coast Fork, McKenzie, Middle Fork; SWVGWMA?	Priscilla Woolverton or Becky Anthony	(541) 687-7347 or (541) 686-7719

Section B: Oregon §319 Grant Proposal Form

I. Proposal Title

II. Contact Information

Primary contact person:

Organization/position:

Street address:

City, State, ZIP:

Day phone: ()

Fax: ()

Email:

Secondary contact person:

Organization/position:

Street address:

City, State, ZIP:

Day phone: ()

Fax: ()

Email:

Signature of Applicant: _____

Date of signature: _____

III. Project Location

A. Town(s), County:

B. Basin or watershed name: _____ HUC: (12 digit code required)

River Stream Lake/Pond Estuary Groundwater Other _____

C. Is this project part of a Total Maximum Daily Load (TMDL), Drinking Water Source Protection (DWSP) or Groundwater Management Area (GWMA) effort? Yes No
If yes, name: _____

D. Map and spatial location information: All proposals must be accompanied by a map showing the project location in sufficient detail that it can be easily located by individuals unfamiliar with the area.

Map of project area is attached? Yes No

IV. Project Summary

Is this project a recurrent or phased 319 project? If so please, provide a short narrative of the past/on-going work and the proposed work. Please relate your proposed work to the regional priorities referenced in Section C.

For all projects: In the space below, describe the proposed project including: the general location (municipalities, drinking water source area, and/or watershed); water quality impairment(s); causes or sources of water quality impairment(s); proposed management activities, e.g., education, technical assistance; goal(s) of the project; and how you will demonstrate success.

V. Watershed Plan / Area Wide Strategy

In the space below, briefly describe how the project coordinates with other related water quality improvement efforts in the proposed project location (municipalities, drinking water source area, and/or watershed). Include references and citations for projects implementing a watershed or area wide strategy.

VI. Desired Environmental Outcomes

In the space below, please provide a concise statement of: 1) the expected environmental outcome(s) that this project would likely achieve; and 2) how these outcomes will be measured

VI. Phasing Considerations

Certain watershed restoration projects may be designed to anticipate future phases of work. If additional phases of the project are anticipated beyond this grant project time period, briefly describe, in 200 words or less, the goal of each phase.

VII. Project Partners, Sources of Matching Funds, and Estimated Total Project Cost

Please provide an estimate of your proposed funding requirements.

1. The minimum information to be provided consists of:
 - a. §319 funds requested
 - b. Match to be included (as referenced in Section A.5, the required match is calculated by multiplying the amount of §319 funds requested by 2/3)
2. The Budget for all projects require the minimum details shown in Table 4 below. We encourage you to contact the appropriate DEQ staff listed in Table 3, as you prepare the budget.

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Table 4. Sample Budget

Type of expense reimbursement	NPS Funds	Match Funding (non-federal)	Total
Personal Services			
Supplies and services			
Equipment			
Travel			
Subcontracts			
Select ONE: 10% of Modified Total Direct Cost , or MTDC , is the total of all direct costs of the project, with the following exclusions: equipment over \$5,000 (Diminimis indirect rate) <u>or</u> Indirect Cost Plan rate %			
Total			

Section C. Proposal Project Priorities

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 Pesticide Reduction Activities	Region Wide		Pesticides	Targeted pesticide reduction projects to reduce/remove old or unused pesticides, and encourage replacement of current use pesticides with softer alternatives. Targeted project elements include public education programs to increase public awareness of environmental quality and health concerns associated with pesticide use and storage. Projects targeting underserved areas will be given priority.
Klamath Basin Coordinated Implementation Planning	Klamath River Basin (Sprague River, Upper Klamath Lake, Upper Klamath and Lost River, Williamson)	TMDLs completed	Temperature Dissolved oxygen pH Ammonia toxicity Chlorophyll a	Targeted implementation planning projects include design/development of a unified implementation plan for irrigation and drainage districts and others that will identify and prioritize implementation activities to help meet water quality objectives identified by the TMDLs; and will improve overall coordination of future implementation activities between separate entities in the Basin. Strong consideration will be given to those proposals that include identification of tracking and accounting mechanisms for implementation progress within the Basin and effectiveness monitoring protocols for identifying both water quality benefits realized through implementation of the plan and assessment of project-type effectiveness

Basin / Priority Activity	Specific Location	Status: TMDLs/ 303(d) and Watershed Approach	Water Quality Problem	Project Need
Pollutant Source Characterization				<p>Targeted pollutant source characterization projects include development and implementation of monitoring programs specific to the characterization of sources of:</p> <ul style="list-style-type: none"> • Elevated water temperatures, nutrients, bacteria, and pesticide concentrations, and depressed dissolved oxygen in local surface and groundwater, and agricultural drains in support of targeting and refining TMDL implementation efforts and changes in management practices <p>Projects correlated with and/or adjacent to other water quality work will be given priority.</p>
Nutrient Reduction				<p>Targeted nutrient reduction projects are those that include research, design and implementation activities that will reduce nutrient loading to the Malheur River, its tributaries and groundwater in the Northern Malheur County GWMA.</p> <p>Projects correlated with and/or adjacent to other water quality work will be given priority.</p>
Agricultural Implementation				<p>Targeted agricultural implementation projects include riparian area restoration activities, waste management, grazing management, irrigation management and effectiveness monitoring to characterize watershed response to implementation projects.</p>
Channel and Riparian Restoration				<p>Targeted riparian restoration projects include restoring morphologic function (increased sinuosity, decreased width/depth ratios, floodplain reconnection), revegetation of riparian area, increased instream flow. Proposed project(s) are expected to include an extensive portion of the stream channel over time rather than isolated small-length segments. Projects correlated with and/or adjacent to other restoration work will be given priority.</p>

Basin / Priority Activity	Specific Location	Status: TMDLs/ 303(d) and Watershed Approach	Water Quality Problem	Project Need
<p>Malheur River Basin</p> <p>Pollutant Source Characterization</p> <p>Nutrient Reduction</p> <p>Agricultural Implementation</p> <p>Channel and Riparian Restoration</p>	<p>Malheur River Basin</p>	<p>TMDLs completed</p>	<p>Temperature Dissolved Oxygen Bacteria Pesticides Nutrients</p>	<p>Targeted pollutant source characterization projects include development and implementation of monitoring programs specific to the characterization of sources of:</p> <ul style="list-style-type: none"> Elevated water temperatures, nutrients, bacteria, and pesticide concentrations, and depressed dissolved oxygen in local surface and groundwater, and agricultural drains in support of targeting and refining TMDL implementation efforts and changes in management practices <p>Projects correlated with and/or adjacent to other water quality work will be given priority.</p> <p>Targeted nutrient reduction projects are those that include research, design and implementation activities that will reduce nutrient loading to the Malheur River, its tributaries and groundwater in the Northern Malheur County GWMA.</p> <p>Projects correlated with and/or adjacent to other water quality work will be given priority.</p> <p>Targeted agricultural implementation projects include riparian area restoration activities, waste management, grazing management, irrigation management and effectiveness monitoring to characterize watershed response to implementation projects.</p> <p>Targeted riparian restoration projects include restoring morphologic function (increased sinuosity, decreased width/depth ratios, floodplain reconnection), revegetation of riparian area, increased instream flow. Proposed project(s) are expected to include an extensive portion of the stream channel over time rather than isolated small-length segments. Projects correlated with and/or adjacent to other restoration work will be given priority.</p>

Basin / Priority Activity	Specific Location	Status: TMDLs/ 303(d) and Watershed Approach	Water Quality Problem	Project Need
<p>Powder Basin</p> <p>Channel and Riparian Restoration</p> <p>Nutrient Reduction</p> <p>Agricultural Implementation</p> <p>Pollutant Source Characterization</p> <p>Improved stream flows</p>	<p>Burnt, Powder, and Brownlee subbasins</p>	<p>Watershed Assessments completed TMDL development in progress</p>	<p>Nutrients Sediment Bacteria Temperature</p>	<p>Targeted riparian restoration projects include restoring morphologic function (increased sinuosity, decreased width/depth ratios, floodplain reconnection), revegetation of riparian area, increased instream flow. Proposed project(s) are expected to include an extensive portion of the stream channel over time rather than isolated small-length segments. Projects correlated with and/or adjacent to other restoration work will be given priority.</p> <p>Targeted nutrient reduction projects are those that include research, design and implementation activities that will reduce nutrient loading to waterbodies in the Powder Basin. Projects correlated with and/or adjacent to other water quality work will be given priority.</p> <p>Targeted agricultural implementation projects include riparian area restoration activities, waste management, grazing management, irrigation management and effectiveness monitoring to characterize watershed response to implementation projects.</p> <p>Targeted pollutant source characterization projects are those that include development and implementation of monitoring programs specific to the characterization of sources of:</p> <ul style="list-style-type: none"> • Elevated water temperatures, nutrients, bacteria, and depressed dissolved oxygen in local surface water, and agricultural drains in support of targeting and refining TMDL implementation efforts and changes in management practices <p>Projects correlated with and/or adjacent to other water quality work will be given priority.</p> <p>Targeted projects are those that will increase summer time instream flows (quantity and timing) to more closely mimic the natural hydrograph; result in implementation of water conservation strategies on-farm; specifically and permanently reduce stream water withdrawals and promote upland conservation measures.</p>

Basin / Priority Activity	Specific Location	Status: TMDLs/ 303(d) and Watershed Approach	Water Quality Problem	Project Need
<p>Umatilla Basin</p> <p>Riparian Protection and Restoration</p> <p>Sediment and Erosion Reduction</p> <p>Bacteria Reduction</p>	<p>Umatilla, Walla Walla and Willow Subbasins</p>	<p>Watershed Assessments in progress TMDLs completed</p>	<p>Nutrients Sediment Bacteria Temperature pH Algae</p>	<p>Targeted projects are those that will establish and protect riparian buffers, including restoring morphologic function (increased sinuosity, decreased width/depth ratios, floodplain reconnection), revegetation of riparian area, increased instream flow. Proposed project(s) are expected to include an extensive portion of the stream channel over time rather than isolated small-length segments. Projects correlated with and/or adjacent to other restoration work will be given priority.</p> <p>Targeted projects are those that will characterize and/or reduce fine sediment; and assessment of excess erosion trends, sources, causes and prioritization of responsible changes in management actions.</p> <p>Targeted projects are those that will characterize and/or reduce bacteria, including spatially targeted priorities for bacteria BMPs and projects, and E. coli monitoring in selected areas where improvements will be detectable and historic monitoring data is available.</p>

Eastern Region Project Priorities: Groundwater Management Areas (GWMA)

Basin / Priority Activity	Specific Location	Status: GWMA	Water Quality Problem	Project Need
Lower Umatilla Basin Ground Water Management Area (LUBGWMA) Action Plan	Umatilla Subbasin Middle Columbia Basin	Lower Umatilla Basin GWMA established in 1990	Nitrate-Nitrogen	Targeted projects include: <ul style="list-style-type: none"> • Research and development of activities or products which will reduce nitrate loading to groundwater – Targeted projects should address one of the five potential nitrate sources identified in the GWMA. • Revised fertilizer guides and recommended BMPs – Revised guidelines should describe the deficiencies of the current documentation and the number of acres that will be affected by the revisions; as well as evaluate the environmental aspects of the revisions. • Document BMP implementation on the GWMA scale in a system that allows spatial analysis (e.g., GIS) – Develop and implement a program to track BMP implementation (temporally and spatially) to facilitate quantification and documentation of projects and allow analysis of and linkage to monitoring well water quality relative to BMP implementation. • Perform field scale BMP performance evaluations – Identify appropriate locations and mechanisms to perform evaluations of BMPs (both existing and experimental) at the field scale. Proposed project plans should have very well developed monitoring plans capable of documenting BMP performance. • Evaluation of the Mineralization N Test – Comparison of the mineralization N test to other commonly used analyses to allow more accurate budgeting of nitrogen in the GWMA. • Develop and implement groundwater workshop for growers and certified crop advisors – Develop and sponsor workshops specific to groundwater protection. Ensure that the content is consistent with the intent of the action plans and with groundwater protection goals of DEQ and ODA. • Develop outreach material/strategy for small acreage growers and/or lawn and garden care – Develop targeted outreach and education programs to educate and reduce loading from small acreage growers and homeowners within the GWMA.

Basin / Priority Activity	Specific Location	Status: GWMA	Water Quality Problem	Project Need
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"> • Research and development of activities or products which will reduce nitrate loading to groundwater – Targeted projects should address a potential nitrate source identified in the GWMA. • Document BMP implementation on the GWMA scale in a system that allows spatial analysis (e.g., GIS) – Develop and implement a program to track BMP implementation (temporally and spatially) to facilitate quantification and documentation of projects and allow analysis of and linkage to monitoring well water quality relative to BMP implementation.

Eastern Region Project Priorities: Drinking Water Source Protection (DWSP)

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. GIS assistance can also be provided.	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 can supplement GWMA implementation activities.
All ER Basins	Municipally owned DWSAs, especially recently acquired land.	Source Water Assessments complete. GIS assistance can also be provided.	Bacteria, sediment, turbidity	Projects addressing management and restoration of land in drinking water source areas (DWSAs) owned by Public Water Systems or owned by a community that relies on the Public Water System and its DWSA. Restoration of riparian and ecosystem functions, remediation of current or potential pollution sources, and bolstering system resiliency to natural disturbance and climate change to protect beneficial uses including drinking water.

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	Implementation of efforts identified in Water Quality Implementation Plans (WQIP) or Water Quality Management Plans (WQMP) TMDL implementation and effectiveness monitoring
Willamette River Basin	Cities, Counties, and agricultural areas in the Willamette Subbasins	TMDLs adopted, TMDLs in-progress and 303 (d) listings	<i>E. coli</i> Dissolved Oxygen Iron Legacy and Current Use Pesticides Mercury Nutrients Temperature	Partnerships involving small cities (population less than 10,000), counties and other entities within the same subbasin that collaborate to conserve/leverage limited resources to focus on water quality improvement specific to best management practices for improving the quality of stormwater runoff. . Priority will be given to projects that address impaired surface waters and public drinking water source areas.
Mid-Coast Basin Assessment and BMP Implementation	Siletz- Yaquina and Siuslaw subbasins	303(d) listings or documented impairments; TMDLs being developed	Beneficial use impairments due to bacteria, temperature, dissolved oxygen levels & fine sediment or turbidity	Water quality monitoring and land condition assessment (riparian, bank condition, upland and roads) to better quantify sources of nonpoint source pollutant loading, identify trends and assist with prioritization of sites for BMP implementation; BMP implementation to improve riparian conditions and/or reduce nonpoint source pollution; 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. Projects within public drinking water source areas will receive higher priority.

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 (2017)</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 2017, 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>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>

Western Region Basin/ Priority Activity	Specific Location	Status: TMDLs/303(d)	Water Quality Problem	Project Need
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, pesticides	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 Implementation	Clackamas, Sandy, Lower Willamette, Molalla, Tualatin and tributaries	<p>TMDLs completed: temperature, bacteria, mercury</p> <p>TMDLs completed: Tualatin - phosphorus, dissolved oxygen</p> <p>303d listings – without TMDLs: (toxics/pesticides, biological criteria, dissolved oxygen)</p>	<p>Temperature</p> <p>Bacteria</p> <p>Dissolved Oxygen</p> <p>Nutrients (phosphorus)</p> <p>Toxics</p> <p>Algae</p>	<p>Riparian & In-channel restoration (Native planting, erosion control, Large wood placement)</p> <p>Toxics (including pesticides) reduction projects</p> <p>Nutrient reduction projects, including reduction from septic systems</p> <p>Innovative stormwater planning, tools and projects</p> <p>Agriculture practices that reduce erosion, runoff, riparian degradation</p> <p>Surface and groundwater conservation projects</p> <p>TMDL implementation planning and adaptive management activities, including code/ordinance review, particularly targeting post construction stormwater management and riparian buffers</p> <p>Effectiveness monitoring directly related to a restoration/pollution reduction project</p> <p>Projects within public drinking water source areas may receive additional consideration for addressing this beneficial use</p>
North Coast, Tillamook Bay/TMDL Implementation		<p>TMDLs completed (temperature, bacteria)</p> <p>TMDLs in progress (dissolved oxygen)</p>	<p>Temperature</p> <p>Bacteria</p> <p>Dissolved Oxygen</p>	<p>Riparian & In-channel restoration (Native planting, erosion control, Large wood placement).</p> <p>Agriculture BMPs (includes fencing & digester projects)</p> <p>Innovative stormwater planning, tools and projects</p> <p>Projects within public drinking water source areas may receive additional consideration for addressing this beneficial use</p>

Basin/ Priority Activity	Specific Location	Status: TMDLs/ 303(d)	Water Quality Problem	Project Need
Lakes			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

Northwest Region Project Priorities Drinking Water Source Protection (DWSP)

Areas identified can be found at: <http://www.deq.state.or.us/wq/dwp/results.htm>

Basin/Priority Activity	Specific Location	Status: DWSP	Water Quality Problem	Project Need
All NWR Basins	Drinking water source areas with focus on riparian areas/sensitive areas affecting intakes and sensitive areas contributing to groundwater wells.	Source Water Assessment is complete. GIS assistance can also be provided.	Bacteria, blue green algae, toxics (emerging pollutants), sediment, nutrients	Projects addressing higher risk non-point source potential contamination as documented in DEQ/OHA Source Water Assessments or public water system Drinking Water Protection Plans including restoration of riparian and ecosystem functions, remediation of current or potential pollution sources, and bolstering system resiliency to natural disturbance and climate change to protect beneficial uses including drinking water.as documented in . 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
Current and past National Water Quality Initiative Watersheds/ Monitoring	Brandy Creek (Willamette/ Molalla-Pudding), Willow Creek (Middle Snake-Boise/ Willow), Fifteen mile 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.