

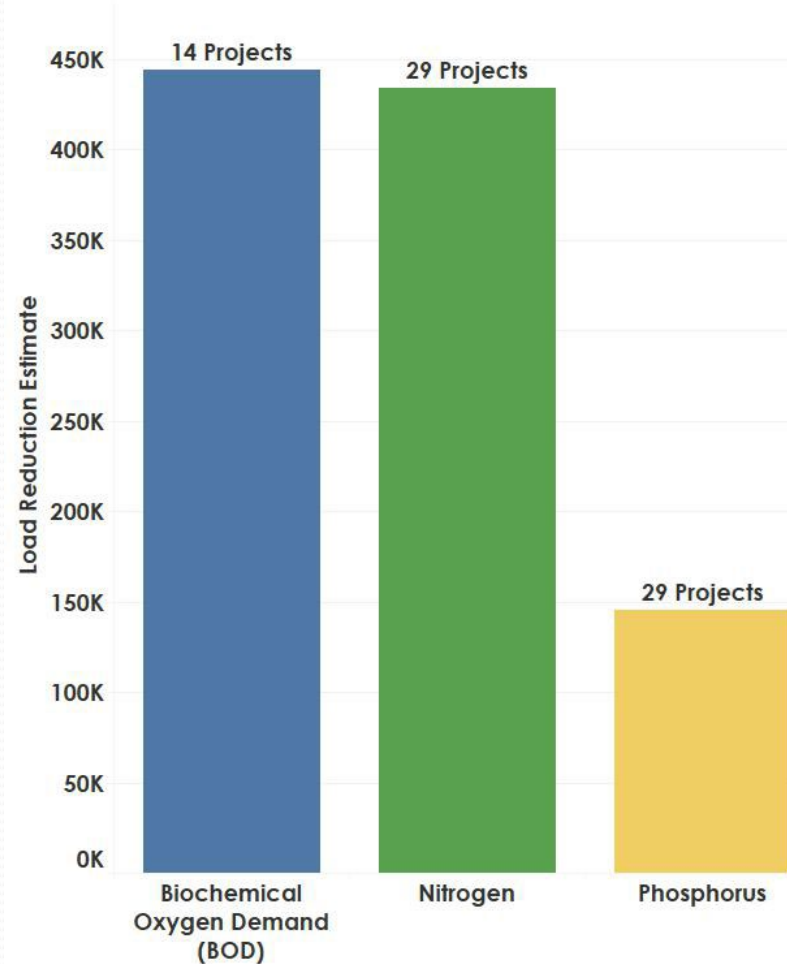
Reporting BMPs and Load Reductions For Section 319 And Matching Centennial Projects

Water Quality Program
WA Department of Ecology

Why do we have to report?

- Measure progress on achieving project milestones.
- Show the impacts of your projects, with data.
- **EPA requirement:**
 - Ecology enters data from the forms into the EPA Grants Reporting and Tracking System Database (GRTS).
- Helps secure and justify funding.

Pollutant Load Reduction Estimate: LBS/YR



Load reduction reporting helps us tell the story of the significance of nonpoint source pollution.

Why is reporting required for Centennial Projects?

- Ecology uses Centennial funded projects to meet EPA's 319 match requirements.
- All 319 requirements also apply to match funds, so BMP and load reduction reporting is required.
- EPA wants to know how state funds are leveraged for nonpoint pollution reduction.

Load Reduction Reporting

- Use Ecology's Annual Load Reduction Reporting Form to report Best Management Practices (BMPs) and pollutant load reductions.
- Reporting cycle: January-December
 - **Due annually on Jan 15**
- At project closeout, report any new BMPs installed (since last report period) and load reductions.

Reporting BMPs

- Report all BMPs paid for by the grant and installed in the recent calendar year.
- Pollutant load reductions are modeled using EPA's Pollution Load Estimation Tool (PLET).
- Not all eligible BMP types are found in PLET, so they will not have associated load reduction estimates.
 - Report load reductions if you used another model or have real data.
 - Report the BMP regardless of load reduction capability.

Reporting BMPs

The following eligible BMPs are in the PLET model and must have load reduction estimates reported:

- Forest Buffer
- Conservation Tillage 1 & 2 (direct seed with residue rate options)
- Streambank stabilization and fencing
- Waste Management Systems
- Waste Storage Facilities

Reporting BMPs

Eligible BMPs in PLET model (continued):

- Alternative Water Supply
- Livestock Exclusion Fencing
- Streambank Protection w/o Fencing
- Heavy Use Area Protection
- Critical Area Planting

Reporting BMPs

BMPs to report with no PLET load reduction estimates:

- Invasive Species/Noxious Weed Control (length and area)
- Pet Waste Management (units)
- Stream Crossing – indicate type such as bridge, hardened crossing, etc. (units)
- Stream Habitat Improvement and Management (length and area)
- Wetland Enhancement (area)
- Wetland Restoration (area)
- Windbreak/Shelterbelt Establishment (for livestock protection) (length)

Reporting Highlights

- Report load reductions on a 12-digit HUC watershed scale.
- Options to determine 12-digit HUCs:
 - USGS Viewer Map-Watershed Boundary Dataset (WBD)
 - Google Earth
 - ArcReader
 - ArcGIS
 - EAGL Mapping Information page

12-Digit HUCs: USGS WBD

- <https://viewer.nationalmap.gov/viewer/>
- Select Watershed Boundary Dataset from the Layer List.
- Use Search field or just zoom in to project area.
- Zoom in enough to get to the 12-digit HUC (starts at 2-digit then up to 12-digit).
- Click on area and box will appear w/ HUC number, waterbody name, etc.

USGS NHD Screen Shot

The image is a screenshot of the USGS National Hydrography Dataset (NHD) web application. The top left features the USGS logo and 'The National Map' branding. The top right contains navigation links: 'USGS Home', 'Contact USGS', and 'Search USGS'. Below the header is a green navigation bar with 'Link to Data Download' and 'Link to Help' on the left, and a search bar on the right. The main map area shows a topographic map of the Auburn, Oregon region, with various hydrologic units (HUCs) labeled. A red circle highlights the 'Layers' icon in the top toolbar, with an arrow pointing to the 'Layer List' panel on the right. The 'Layer List' panel shows several layers, with 'Watershed Boundary Dataset' checked and highlighted in a yellow box. A metadata popup window is open over the map, displaying details for HUC 171100130203. A blue circle highlights the 'HUType' field in the popup, which is set to 'Standard'. The popup also shows 'HUMOD' as 'DM' and 'TOHUC' as '171100130204'. The bottom of the screen contains a footer with 'USGS The National Map; National Boundaries Dataset, National Elevation Dataset', 'Accessibility', 'FOIA', 'Privacy', and 'Policies and Notices'.

USGS Home
Contact USGS
Search USGS

Link to Data Download Link to Help

Find address or place

Layer List

Operational layers

- US_Topo_Availability
- Geographic Names (GNIS)
- Structures
- Transportation
- Governmental Unit Boundaries
- Map Indices
- National Hydrography Dataset
- Hydro Cached
- Watershed Boundary Dataset
- FWS Wetlands - Topo Symbols
- National Land Cover Database (NLCD)
- Elevation Index - 3DEP
- Elevation Contours
- Imagery (NAIP Plus)

(1 of 2)

SOURCEDATDESC	SOURCEORIGINATOR	SOURCEFEATUREID	GNIS_ID	AREAAACRES	AREASQKM	HUC12	NAME	HUType	HUMOD	TOHUC	NONCONTRIBUTINGACRES
				16,581.44	67.10	171100130203	Howard A Hansen Dam-Crocker River	Standard	DM	171100130204	

Zoom to

USGS The National Map; National Boundaries Dataset, National Elevation Dataset

Accessibility FOIA Privacy Policies and Notices

Watershed and Pollutant Information

- Required pollutants (when applicable): **phosphorus** (lbs/yr), **nitrogen** (lbs/yr), **sediment** (tons/yr).
 - These are estimated by the PLET model, also BOD.
- Others: E. coli (coming soon), dissolved oxygen, exotic species, fecal coliform, herbicides, inorganics, temperature, etc.
 - You can report measured or modeled reductions on other pollutants if you have them.
- Include WQ Assessment listing ID Number(s) from 303(d) List, if applicable.

Best Management Practices

- List each BMP installed individually and include:
 - Location in latitude and longitude
 - BMP type
 - Length in feet
 - Area in acres or square feet
 - Other units (if applicable)
 - Cost of BMP
- Report all eligible BMPs installed even if there are no load reductions associated with them.

Reporting in EAGL

Section 319 Annual Load Reduction Reporting Form

EAGL Load Reduction Form

Breadcrumb location in EAGL:
Application Menu

- View Forms
- Application Forms Menu
- Section 319 Annual Load Reduction Reporting














Application Menu - Forms

Please complete all required forms below.

Document Information: [WQC-2015-MSRF-00104](#)

 [Details](#)

Forms

Status	Page Name	Note
Funding Program Guidelines		
	Contact Information	
	SFY 2015 Water Quality Combined Financial Assistance Guidelines	
	SFY 2015 Scoring Guidance	
Application Forms		
	General Information	
	Recipient Contacts	
	Location Information	
	Project Development, Local Support, and Past Performance	
	Readiness to Proceed	
	Refinance Form	
	Preconstruction Form	
	Section 319 Initial Data Reporting	
	Section 319 Annual Load Reduction Reporting	
	Uploads	

EAGL Load Reduction Form

- Form editable in “Agreement Active” and “Agreement in Closeout/Termination” statuses.
 - Can be completed by Authorized Official or Recipient Project Manager roles.
- Fill out all required fields denoted with a red asterisk.
- Did you complete a form last year?
 - Click the ADD button at top right and a new blank form will appear. Then, fill it out.
 - Allows you to report each year the grant is active and at closeout if applicable.


EAGL Load Reduction Form

- If no BMP installation occurred for the reporting year, just fill out first three (*) required fields, save, and you are done.
 - * Reporting year
 - * Model type
 - * Did you install BMPs during the year? -No

EAGL Load Reduction Form

SECTION 319 ANNUAL LOAD REDUCTION REPORTING

Required fields are marked with *
 When done, click the **SAVE** button
 When needing to add a new year's report, click the **ADD** button.

*Reporting Year 

Load Reduction Information






*What type of Load Reduction Model did you use to calculate your reduction estimates?
 (Typically the EPA's STEPL model – at Internet website [http://it.tetratech-ffx.com/stepweb/models\\$docs.htm](http://it.tetratech-ffx.com/stepweb/models$docs.htm) is used for Load Reduction estimates of nitrogen, phosphorous, and sediment)

*Did you install any BMPs during the year?
 Yes No

If yes, list each drainage area within the project by indicating the 12-digit HUC where BMPs were installed during the year. A 12-digit HUC GIS layer may be downloaded from <http://datagateway.nrcs.usda.gov/GDGOrder.aspx> Select, in the drop-down list, (in its corresponding HUC row) the pollutants and their corresponding load reduction estimates.





If the model you are using does not report on nitrogen, phosphorous, or sediment, indicate this using checkbox in the "Pollutant Type" column rather than entering a load reduction.

Load Reduction Table

*Watershed Number (12 digit HUC)	Pollutant Type #1	*Reduction Amount for #1	Pollutant Type #2	*Reduction Amount for #2	Pollutant Type #3	*Reduction Amount for #3	Pollutant Type #4	Reduction Amount for #4
<input type="text"/>	Nitrogen <input type="checkbox"/> Model does not report nitrogen	<input type="text"/> 	Phosphorus <input type="checkbox"/> Model does not report phosphorus	<input type="text"/> 	Sediment <input type="checkbox"/> Model does not report sediment	<input type="text"/> 	<input type="text"/> 	<input type="text"/> 

Implemented Best Management Practices

Definitions for most BMPs can be found at <http://www.nrcs.usda.gov/technical/standards/nhcp.html>

*Best Management Practice	*Latitude	*Longitude	*Length in ft	*Area in Acre
<input type="text"/>	<input type="text"/> 	<input type="text"/> 	<input type="text"/> 	<input type="text"/> 

Need more help?

- These slides and other tools can be found on the Nonpoint Source Project Resources web page!
<https://ecology.wa.gov/About-us/How-we-operate/Grants-loans/Find-a-grant-or-loan/Water-Quality-grants-and-loans/Nonpoint-source-project-resources>
- Don't hesitate to ask us!

Remember: Reports Due January 15 annually and at project closeout.

Questions?

Carson Moscoso

Nonpoint Funding Coordinator

Carson.moscoso@ecy.wa.gov

(564)999-1269