



State of Oregon Department of Environmental Quality 2022 Integrated Report Map Viewer Instructions for Use

Water Quality Assessments
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Oregon's Draft 2022 Integrated Report on Surface Water Quality and List of Water Quality Limited Waters is now available on DEQ's website:

<https://www.oregon.gov/deq/wq/Pages/proposedIR.aspx>

There are four tools to assist with review of the Draft Integrated Report:

- An interactive [story map](#) that provides an overview of the water quality assessment process and how to provide comments on the draft report.
- An interactive [web map](#) application that displays the Integrated Report by overall status of an assessment unit.
- An on-line searchable [database](#) that provides categorical assessment conclusions for all assessed pollutants.
- Assessment Geodatabase spatially displays information from Oregon's 2022 Integrated Report.

DEQ has migrated the Integrated Report to a new GIS platform, so there may be some slight adjustments to the map functionality over the next couple of months.

Sign up for future project updates online at:

https://public.govdelivery.com/accounts/ORDEQ/subscriber/new?topic_id=ORDEQ_382.

How to use the interactive web map

For the 2022 Integrated Report, DEQ has switched web mapping platforms to continue to add functionality and increase the usability of the application.

General set up and tools

1. Search Box

2. Layer lists and Map Legend

3. Information and Tools

4. Navigation

5. Expand/Collapse Attribute tables

Monitoring Stations	AU Waterbodies Status	AU Rivers CoastLine Status	AU Watershed GNIS Status	AU Watershed Area Status										
AU_GNIS_Name	AU_ID	Comments	COUNTY	Datum_Name	ELEV_Ft	GNIS_Name	HUC10_Name	HUC12	HUC12_Name	HUC8	HUC8_Name	Lat_DD	Location_Type	Long_DD
	OR_SR_17100305		COOS	NAD83	9	North Fork Coquille River	North Fork Coquille River	171003050404	Johns Creek-North Fork Coquille River	17100305	Coquille	43.08	River/Stream	-124.14






- Search Box** - Use to select a specific assessment unit IDs or Monitoring Location IDs. The search may also be used for geographic locations and addresses.
- Layer Lists** – 2022 IR layers are grouped by the attributes displayed. Each group contains multiple layers based on geometry type and/or assessment unit type. The groups can be turned on or off using the menu on the right side of the list.

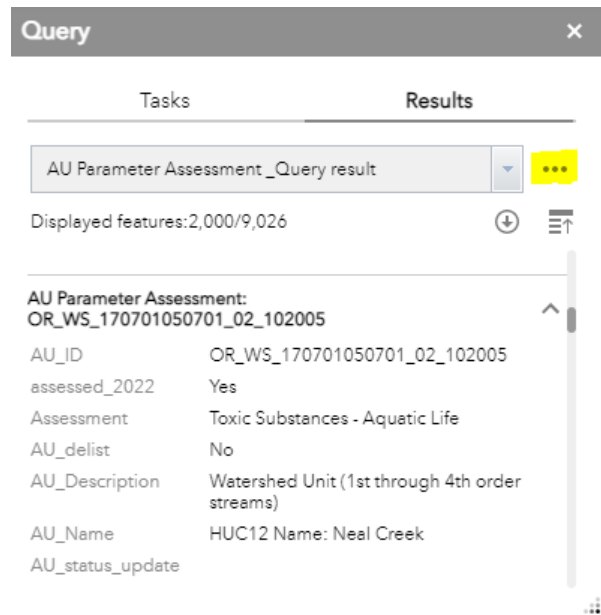
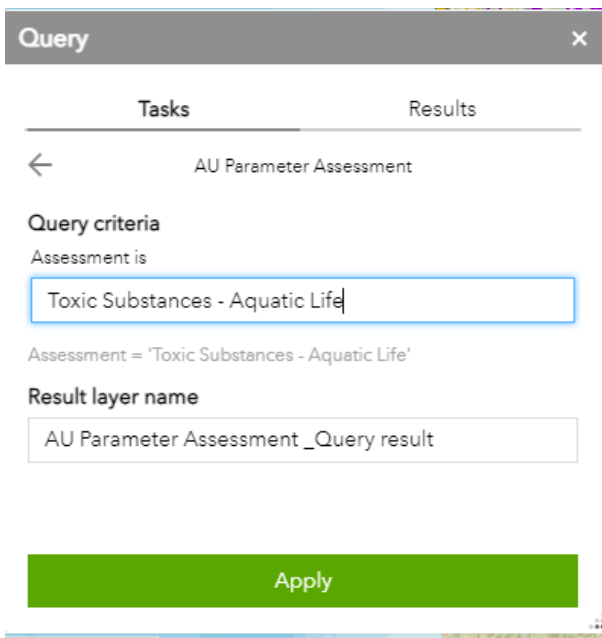
Impaired Waters - 303(d) List

Layers




- Impaired Waters – 303(d) – displays all waters found to be water quality limited for one or more parameters.
- 2022 Draft Integrated Report – displays high level assessment unit status for all assessed waters. This layer group is turned on by default and has two layers that will become visible when zooming in.
- Delisting – Displays delisting for the 2022 IR cycle. These represent waters now attaining water quality standards or waters found to be listed in error in previous listing cycles. This layer group is unique in that each delisting is represented as an individual record rather than as an AU summary.
- Assessment Units – Displays all Oregon's fixed assessment units.
- Water Quality Standards – Displays Oregon's georeferenced water quality standards and beneficial use designations. Also contains the high-resolution National Hydrography Dataset which is Oregon's state standard for displaying hydrographic data.

- Information and Tools

- a.  - click to get information about the web map application.
- b.  - Click to change base map options.
- c.  - Click to bookmark areas of interest.
- d.  - Use the group filter to see where a parameter of interest was assessed (list of parameter names can be found at the end of this document). The map colors will not change based on the status of the parameter selected, but users can see the extent of coverage for different parameters.
- e.  - Use the query to get all results for a particular assessment (this is like the [online database](#)). For example, enter Toxic Substances - Aquatic Life, hit apply and get all the AU parameter assessments for these water quality criteria. Use the three dots in the result window, to open the results in an attribute table.



4. Navigation –

- a.  - Use these to zoom in and out of the map.
- b.  - Returns to statewide extent.
- c.  - For mobile users this button will take you to your current location.

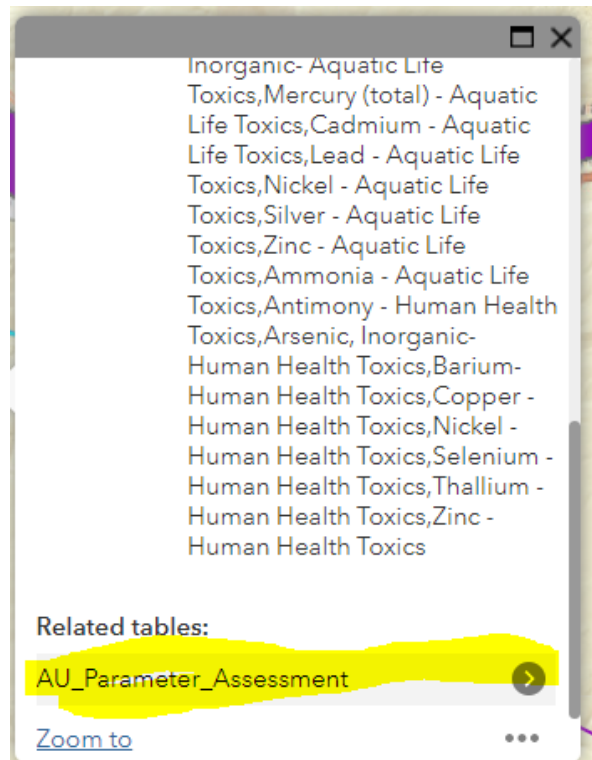
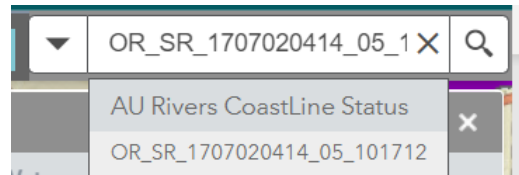
5. Attribute tables – The arrow at the bottom of the map will pull up all of the attribute tables for the layers which are currently displayed on the map. Each table can be filtered or exported.



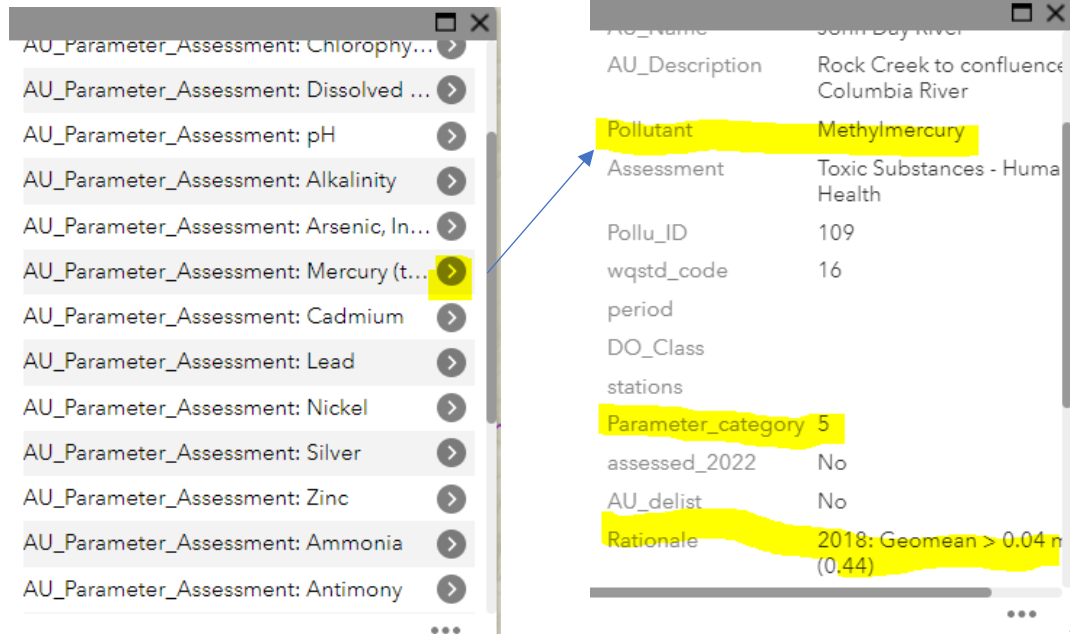
Example – Assessment Unit Search

Here is an example of how to use the web map application to get information for a specific assessment unit.

1. Use the search box to navigate to **OR_SR_1707020414_05_101712**
2. Get a summary of the assessment unit from the pop-up window. For more detailed information about the parameter assessment categories, scroll down on the pop-up to the Related tables and click on the arrow next to the **AU_Parameter_Assessment**.



3. See all assessed parameters and get a summary by clicking on the arrow next to the parameter.



Valid Values for Filters and Queries

The parameter names below can be used in the filter tool. The assessment values can be in query tool.

Parameter	Assessment
E. coli	Bacteria
Fecal Coliform	Bacteria
Enterococci	Bacteria
Chlorophyll-a	Chlorophyll-a
Dissolved Oxygen	Dissolved Oxygen
BioCriteria	Narrative Criteria for Biocriteria
Ocean Biological Integrity	Narrative Criteria for Biocriteria
Shellfish Toxins	Narrative Criteria for Toxic Substances
Turbidity	Narrative Criteria for Turbidity
pH	pH
Temperature	Temperature - Numeric
Total Dissolved gas	Total Dissolved Gas
Aldrin	Toxic Substances - Aquatic Life
Alkalinity	Toxic Substances - Aquatic Life
Ammonia	Toxic Substances - Aquatic Life
Arsenic, Inorganic	Toxic Substances - Aquatic Life
BHC Gamma (Lindane)	Toxic Substances - Aquatic Life

Chlordane	Toxic Substances - Aquatic Life
Chloride	Toxic Substances - Aquatic Life
Chlorpyrifos	Toxic Substances - Aquatic Life
DDT 4,4'	Toxic Substances - Aquatic Life
Dieldrin	Toxic Substances - Aquatic Life
Endrin	Toxic Substances - Aquatic Life
Guthion	Toxic Substances - Aquatic Life
Heptachlor	Toxic Substances - Aquatic Life
Heptachlor Epoxide	Toxic Substances - Aquatic Life
Iron (total)	Toxic Substances - Aquatic Life
Lead	Toxic Substances - Aquatic Life
Malathion	Toxic Substances - Aquatic Life
Mercury (total)	Toxic Substances - Aquatic Life
Methoxychlor	Toxic Substances - Aquatic Life
Pentachlorophenol	Toxic Substances - Aquatic Life
Cadmium	Toxic Substances - Aquatic Life
Zinc	Toxic Substances - Aquatic Life
Aluminum	Toxic Substances - Aquatic Life
Silver	Toxic Substances - Aquatic Life
Nickel	Toxic Substances - Aquatic Life
DDD 4,4'	Toxic Substances - Aquatic Life
DDE 4,4'	Toxic Substances - Aquatic Life
Endosulfan Alpha	Toxic Substances - Aquatic Life
Endosulfan Beta	Toxic Substances - Aquatic Life
Mirex	Toxic Substances - Aquatic Life
Parathion	Toxic Substances - Aquatic Life
Polychlorinated Biphenyls (PCBs)	Toxic Substances - Aquatic Life
Phosphorus	Toxic Substances - Aquatic Life
Chromium VI	Toxic Substances - Aquatic Life
Chlorine	Toxic Substances - Aquatic Life
Diazinon	Toxic Substances - Aquatic Life
Endosulfan	Toxic Substances - Aquatic Life
Demeton	Toxic Substances - Aquatic Life
Cyanide	Toxic Substances - Aquatic Life
Toxaphene	Toxic Substances - Aquatic Life
Aldrin	Toxic Substances - Human Health
Arsenic, Inorganic	Toxic Substances - Human Health
BHC Alpha	Toxic Substances - Human Health
BHC Beta	Toxic Substances - Human Health
BHC Gamma (Lindane)	Toxic Substances - Human Health
Chlordane	Toxic Substances - Human Health
Chlorophenoxy Herbicide (2,4-D)	Toxic Substances - Human Health
Chlorophenoxy Herbicide (2,4,5,TP)	Toxic Substances - Human Health

DDD 4,4'	Toxic Substances - Human Health
DDE 4,4'	Toxic Substances - Human Health
DDT 4,4'	Toxic Substances - Human Health
Dieldrin	Toxic Substances - Human Health
Endosulfan Alpha	Toxic Substances - Human Health
Endosulfan Beta	Toxic Substances - Human Health
Endosulfan Sulfate	Toxic Substances - Human Health
Endrin	Toxic Substances - Human Health
Endrin Aldehyde	Toxic Substances - Human Health
Heptachlor	Toxic Substances - Human Health
Heptachlor Epoxide	Toxic Substances - Human Health
Methoxychlor	Toxic Substances - Human Health
Pentachlorophenol	Toxic Substances - Human Health
Thallium	Toxic Substances - Human Health
Copper	Toxic Substances - Human Health
Selenium	Toxic Substances - Human Health
Zinc	Toxic Substances - Human Health
Antimony	Toxic Substances - Human Health
Barium	Toxic Substances - Human Health
Methylmercury	Toxic Substances - Human Health
Acrolein	Toxic Substances - Human Health
Benzene	Toxic Substances - Human Health
Bromoform	Toxic Substances - Human Health
Carbon Tetrachloride	Toxic Substances - Human Health
Chlorobenzene	Toxic Substances - Human Health
Chlorodibromomethane	Toxic Substances - Human Health
Chloroform	Toxic Substances - Human Health
Dichlorobenzene(o) 1,2	Toxic Substances - Human Health
Dichlorobenzene(p) 1,4	Toxic Substances - Human Health
Dichloroethane 1,2	Toxic Substances - Human Health
Dichloroethylene 1,1	Toxic Substances - Human Health
Dichloroethylene trans 1,2	Toxic Substances - Human Health
Dichloropropane 1,2	Toxic Substances - Human Health
Dichloropropene 1,3	Toxic Substances - Human Health
Ethylbenzene	Toxic Substances - Human Health
Hexachlorobutadiene	Toxic Substances - Human Health
Methyl Bromide	Toxic Substances - Human Health
Methylene Chloride	Toxic Substances - Human Health
Nickel	Toxic Substances - Human Health
Tetrachloroethane 1,1,2,2	Toxic Substances - Human Health
Tetrachloroethylene	Toxic Substances - Human Health
Toluene	Toxic Substances - Human Health
Trichlorobenzene 1,2,4	Toxic Substances - Human Health

Trichloroethane 1,1,2	Toxic Substances - Human Health
Vinyl Chloride	Toxic Substances - Human Health
Nitrates	Toxic Substances - Human Health
Acenaphthene	Toxic Substances - Human Health
Anthracene	Toxic Substances - Human Health
Benz(a)anthracene	Toxic Substances - Human Health
Benzo(a)pyrene	Toxic Substances - Human Health
Benzo(b)fluoranthene 3,4	Toxic Substances - Human Health
Benzo(k)fluoranthene	Toxic Substances - Human Health
Butylbenzyl Phthalate	Toxic Substances - Human Health
Chloronaphthalene 2	Toxic Substances - Human Health
Chrysene	Toxic Substances - Human Health
Dibenz(a,h)anthracene	Toxic Substances - Human Health
Dichlorophenol 2,4	Toxic Substances - Human Health
Dimethyl Phthalate	Toxic Substances - Human Health
Dimethylphenol 2,4	Toxic Substances - Human Health
Dinitrotoluene 2,4	Toxic Substances - Human Health
Dioxin (2,3,7,8-TCDD)	Toxic Substances - Human Health
Fluoranthene	Toxic Substances - Human Health
Fluorene	Toxic Substances - Human Health
Hexachlorobenzene	Toxic Substances - Human Health
Isophorone	Toxic Substances - Human Health
Nitrobenzene	Toxic Substances - Human Health
Pentachlorobenzene	Toxic Substances - Human Health
Pyrene	Toxic Substances - Human Health
Tetrachlorobenzene, 1,2,4,5-	Toxic Substances - Human Health
Trichlorophenol 2,4,6	Toxic Substances - Human Health
Trichlorophenol, 2, 4, 5-	Toxic Substances - Human Health
Di-n-butyl Phthalate	Toxic Substances - Human Health
Diethyl Phthalate	Toxic Substances - Human Health
Ethylhexyl Phthalate bis 2	Toxic Substances - Human Health
Indeno(1,2,3-cd)pyrene	Toxic Substances - Human Health
Phenol	Toxic Substances - Human Health
Trichloroethylene	Toxic Substances - Human Health
Chloroethyl Ether bis 2	Toxic Substances - Human Health
Chloroisopropyl Ether bis 2	Toxic Substances - Human Health
Dichlorobenzene(m) 1,3	Toxic Substances - Human Health
Hexachlorocyclopentadiene	Toxic Substances - Human Health
Hexachloroethane	Toxic Substances - Human Health
Nitrosodi-n-propylamine, N	Toxic Substances - Human Health
Nitrosodibutylamine, N	Toxic Substances - Human Health
Nitrosodiethylamine, N	Toxic Substances - Human Health

Nitrosodimethylamine, N	Toxic Substances - Human Health
Nitrosodiphenylamine, N	Toxic Substances - Human Health
Nitrosopyrrolidine, N	Toxic Substances - Human Health
Chlorophenol 2	Toxic Substances - Human Health
Acrylonitrile	Toxic Substances - Human Health
Dichlorobromomethane	Toxic Substances - Human Health
Dinitrophenol 2,4	Toxic Substances - Human Health
Manganese	Toxic Substances - Human Health
Methyl-4,6-dinitrophenol	Toxic Substances - Human Health
Benzidine	Toxic Substances - Human Health
Dichlorobenzidine 3,3'	Toxic Substances - Human Health
Polycyclic Aromatic Hydrocarbons (PAHs)	Toxic Substances - Human Health
Cyanide	Toxic Substances - Human Health
Toxaphene	Toxic Substances - Human Health
Habitat Modification	
Sedimentation	
Flow Modification	
Aquatic Weeds	
Harmful Algal Blooms	
Excess Algal Growth	