

State-by-State List of Protection Resources and Examples

Alaska:

- Repository of approved TMDLs and alternative plans: <http://dec.alaska.gov/water/water-quality/impaired-waters/>
- The Nonpoint/303(d) Program staff work closely with other agencies and partners, in particular with the National Fish Habitat Partnership. Several strategic conservation action plans have been developed in different regions of Alaska which include protection measures for water quality. See: <https://www.akfishhabitat.org/about-us>
- A searchable list of Water Quality Standards, Assessment, and Restoration Program reports: <http://dec.alaska.gov/water/water-quality/reports>

Arizona:

- Information about Watershed Preservation Grants: <http://www.azdeq.gov/node/3103>

Arkansas:

- Most of Arkansas' TMDLs have been written by outside consultants. A large number of them were part of the consent decree. Most are in need of revision. The online TMDL database is available at: <https://www.adeq.state.ar.us/water/planning/integrated/tmdl/>

Colorado:

- The Upper Yampa River Watershed Plan, which was primarily driven by protection: <https://steamboatsprings.net/DocumentCenter/View/8714/Upper-Yampa-Watershed-Plan---May-2016?bidId=>
- Watershed protection control regulations (71-74): <https://www.colorado.gov/pacific/cdphe/water-quality-control-commission-regulations>

Connecticut:

- Prioritization efforts, including protection selections and methods can be found here: www.ct.gov/deep/iwrm
- This [story map](#) broadly explains the state's prioritization process for both restoration and protection.

Delaware:

- TMDLs are available online at (healthy waters are not explicitly protected): <http://www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessmentTMDLs.aspx>

Indiana:

- The Southern Whitewater River Watershed TMDL includes a protection component, see: <https://www.in.gov/idem/nps/3912.htm>
- The State Nonpoint Source Management Plan can be found here (Goal 5 is the protection goal): https://www.in.gov/idem/nps/files/nps_management_plan_2014_only.pdf

Kansas:

- To name a few, the following TMDLs contain protective elements:
 - http://www.kdheks.gov/tmdl/2012/2012_Grouse_Creek_TMDL.pdf
 - http://www.kdheks.gov/tmdl/2016/Lower_KS_R_TP_TMDL.pdf

- http://www.kdheks.gov/tmdl/2015/Labette_Cr_TP.pdf
- http://www.kdheks.gov/tmdl/2014/Walnut_TP.pdf
- Kansas Source Water Assessment Program: <http://www.kdheks.gov/nps/swap/>
- Kansas Watershed Restoration and Protection Strategy : <http://www.kdheks.gov/nps/wraps/index.htm>

Louisiana:

- Integrated Report and TMDL information is available at: <https://deq.louisiana.gov/page/water-quality>

Maine:

- Guidance for Maine Lake Watershed-based Protection Plans: https://www.maine.gov/dep/water/grants/319-documents/guidance_lake_watershed-based_protection%20_plans.pdf
- Example – Woods Pond Lake Watershed-based Protection Plan: https://www.maine.gov/dep/water/grants/319-documents/woods_pond_plan.pdf
- List of Approved Watershed-based Plans (Table 2 contains a full list of Lake Watershed-based Protection Plans): <https://www.maine.gov/dep/water/grants/319-documents/WBPs%20Accepted%204-25-18.pdf>

Maryland:

- Approved TMDLs: <https://mde.maryland.gov/programs/Water/TMDL/ApprovedFinalTMDLs/Pages/index.aspx>
- TMDL implementation guidance: <https://mde.maryland.gov/programs/Water/TMDL/DataCenter/Pages/TMDLStormwaterImplementation.aspx>
- TMDL Data Center: <https://mde.maryland.gov/programs/Water/TMDL/DataCenter/Pages/index.aspx>
- List of useful websites on TMDLs: <https://mde.maryland.gov/programs/Water/TMDL/Pages/resources.aspx>
- Ambient Water Quality Monitoring System (searchable web-based MDE water quality data management system): <https://mde.maryland.gov/programs/Water/TMDL/MD-AWQMS/Pages/index.aspx>
- 2018 Integrated Report of Surface Water Quality: <https://mde.maryland.gov/programs/Water/TMDL/Integrated303dReports/Pages/2018IR.aspx>
- Antidegradation -Tier II:
 - Factsheet: https://mde.maryland.gov/programs/Water/TMDL/WaterQualityStandards/Documents/Tier_II_Updates/TII_FactSheet_General_2017_v6302017.pdf
 - Story Map: <http://arcg.is/1ami4K>
 - Tier II Antidegradation Applicant Review Checklist: https://mde.maryland.gov/programs/Water/TMDL/WaterQualityStandards/Documents/Tier-II-Forms/Tier_II_App_BMP_List.pdf
- Chesapeake Bay Program 2016-2017 Bay Barometer: <https://www.chesapeakebay.net/documents/bay-barometer-v6-web.pdf>
- Maryland Environmental Trust (with document links): <http://dnr.maryland.gov/met/Pages/default.aspx>
- Stream health web-map and links: <https://geodata.md.gov/streamhealth/>
- Green print web-map and links: <https://geodata.md.gov/greenprint/>

- 319 Success Projects
 - Story Map: <https://maryland.maps.arcgis.com/apps/MapJournal/index.html?appid=b0a6d91cdd834e0fbfe8d38b07c4248c>
 - Page containing links to each project PDF: <https://mde.maryland.gov/programs/Water/319NonPointSource/Pages/index.aspx>
- Mattawoman Watershed Society (homepage contains many articles): <http://www.mattawomanwatershedsociety.org/home>
- Waterkeepers Chesapeake network: <http://www.waterkeeperschesapeake.com/>
- Chesapeake Bay Program Goal Implementation Teams: https://www.chesapeakebay.net/who/how_we_are_organized

Massachusetts:

- Many TMDLs identify waters for protection as well as restoration. TMDLs are available at: <https://www.mass.gov/lists/total-maximum-daily-loads-by-watershed>.
- The state's watershed based plan tool helps facilitate the development of protection plans: <https://www.mass.gov/guides/watershed-based-plan-information#how-to-use-the-wbp>

Michigan:

- The state's Nonpoint Source Program has a number of protection plans, which can be found among the approved watershed plans here: https://www.michigan.gov/documents/deq/wrd-nps-approved-watershed-plans_431188_7.pdf.
- The state's Nonpoint Source Program measures of success, some of which are related to protection, are located at: https://www.michigan.gov/documents/deq/wrd-nps-measures-success_533795_7.pdf
- Information about the state's NPDES Program can be found at: https://www.michigan.gov/deq/0,4561,7-135-3313_71618_3682_3713---,00.html

Minnesota:

- Addressing Lakes in Watershed Restoration and Protection Strategies: <https://www.pca.state.mn.us/sites/default/files/wq-iw1-48.pdf>
- Example (see Section 3) - Leech Lake River Watershed Restoration and Protection Strategy Report: <https://www.pca.state.mn.us/sites/default/files/wq-ws4-31a.pdf>
- Guide to lake protection and management: <https://www.pca.state.mn.us/water/lake-protection-and-management>
- Minimal Impact Design Standards letter: <https://www.pca.state.mn.us/sites/default/files/p-gen3-16.pdf>

Missouri:

- Information regarding the Jacks Fork TMDL can be found online at: dnr.mo.gov/env/wpp/tmdl/2681-jacks-fk-r-record.htm
- Information regarding the Source Water Protection Program is available at: <https://dnr.mo.gov/env/wpp/pdwb/swpp.htm>.

Montana:

- TMDLs are available at: <http://deq.mt.gov/Water/SurfaceWater/TMDL/tpamap>
- Information about DNRC's Habitat Conservation Plans is available at: <http://dnrc.mt.gov/divisions/trust/forest-management/hcp>
- Information regarding instream flow leasing is available at: <http://fwp.mt.gov/fishAndWildlife/habitat/fish/waterManagement/instreamFlows.html>
- Biennial Legislative Reports of Fish, Wildlife and Parks' Future Fisheries Improvement Program: <http://fwp.mt.gov/fishAndWildlife/habitat/fish/futureFisheries/legislative/>
- Clark Fork River Voluntary Nutrient Reduction Program: <https://clarkfork.org/our-work/what-we-do/monitor-watershed-health/nutrient-monitoring/voluntary-nutrient-reduction-program/>

New Hampshire:

- The Nonpoint Source Management Plan is available here: <https://www.des.nh.gov/organization/divisions/water/wmb/was/nps-plan.htm>
- Completed watershed-based plans for high quality and impaired waters are available here: https://www.des.nh.gov/organization/divisions/water/wmb/was/watershed_based_plans.htm
- Information about *Soak Up the Rain New Hampshire*, a voluntary program managed by the New Hampshire Department of Environmental Services, is available here: <https://www4.des.state.nh.us/SoakNH/>
- Information about road salt reduction is available here: <https://www.des.nh.gov/organization/divisions/water/wmb/was/salt-reduction-initiative/index.htm>
- Information about stormwater management for homeowners is available here: <https://www.des.nh.gov/organization/divisions/water/stormwater/stormwater-mgmt-homeowners.htm>
- Information about stormwater utilities is available here: <https://www.des.nh.gov/organization/divisions/water/stormwater/utilities.htm>

New Jersey:

- Water quality assessments: <https://www.state.nj.us/dep/wms/bears/assessment.htm>
- Surface water quality standards: <https://www.nj.gov/dep/wms/bears/swqs.htm>

New Mexico:

- The Rio Hondo protective TMDL: <https://www.epa.gov/sites/production/files/2015-10/documents/riohondotmdl2.pdf>
- TMDLs can be accessed here: TMDL Program: <https://www.env.nm.gov/surface-water-quality/tmdl/>
- Information about Outstanding National Resource Waters is available here: <https://www.env.nm.gov/surface-water-quality/onrws/>
- The ONRW mapper: <https://gis.web.env.nm.gov/oem/?map=onrw>
- Information about NMED's Statewide Water Quality Management Plan and Continuing Planning Process is available here: <https://www.env.nm.gov/surface-water-quality/wqmp-cpp/>
- Information about source water protection is available here: https://www.env.nm.gov/drinking_water/source-water-protection/

North Carolina:

- TMDLs and alternatives are available at: <https://deq.nc.gov/about/divisions/water-resources/planning/modeling-assessment>
- North Carolina Conservation Planning Tool: <https://www.ncnhp.org/conservation/conservation-planning-tool>

Ohio:

- Ohio's Antidegradation Rule (rule 3745-1-05 of the Administrative Code): <https://epa.ohio.gov/portals/35/rules/01-05.pdf>
- Nonpoint Source Management Plan Update (Section 4.0 concerns high quality waters protection strategies): https://epa.ohio.gov/Portals/35/nps/NPS_Mgmt_Plan.pdf

Oregon:

- The Three Basin Rule [water quality protection for the Clackamas, McKenzie (above RM 15) & the North Santiam] (rule 340-041-0350 of the Administrative Code): <https://secure.sos.state.or.us/oard/viewSingleRule.action?ruleVrsnRsn=68965>
- Outstanding Resource Waters of Oregon: <https://www.oregon.gov/deq/wq/Pages/WQ-Standards-ORWO.aspx>

Pennsylvania:

- Pennsylvania's Assessment Methodology: <https://www.dep.pa.gov/Business/Water/CleanWater/WaterQuality/Pages/Assessment-Methodology.aspx>
- Pennsylvania's existing use program: <https://www.dep.pa.gov/Business/Water/CleanWater/WaterQuality/StreamRedesignations/Pages/Statewide-Existing-Use-Classifications.aspx>
- Pennsylvania's Integrated Report: http://www.depgis.state.pa.us/2018_integrated_report/index.html
- Pennsylvania's Water Quality Standards: <https://www.pacode.com/secure/data/025/chapter93/s93.3.html>
- Pennsylvania's Water Quality Antidegradation Implementation Guidance: <http://www.depgreenport.state.pa.us/elibrary/GetDocument?docId=7842&DocName=WATER%20QUALITY%20ANTIDEGRADATION%20IMPLEMENTATION%20GUIDANCE.PDF%20%20%3Cspan%20style%3D%22color%3Agreen%3B%22%3E%3C%2Fspan%3E%20%3Cspan%20style%3D%22color%3Ablue%3B%22%3E%3C%2Fspan%3E>
- Turtle Creek TMDL Implementation Project: <https://www.depgis.state.pa.us/TurtleCreek/index.html>
- Pennsylvania's TMDL report website: <http://www.ahs.dep.pa.gov/TMDL/>

Rhode Island:

- *Water Quality 2035: Rhode Island Water Quality Management Plan:* <http://www.planning.ri.gov/planning-areas/land-use/water-planning.php>

South Carolina:

- Reedy River watershed plan development for nutrients: <http://cleanreedy.org/>
- Lower Catawba River Basin - Nutrient TMDLs Development: <https://scdhec.gov/environment/ongoing-projects-updates/lower-catawba-river-basin-nutrient-tmdl-development>

Utah:

- Antidegradation Review FAQs: <https://deq.utah.gov/legacy/programs/water-quality/standards-technical-services/docs/2011/06Jun/AntidegradationFAQs.pdf>
- Utah's CWA 303(d) Vision document: <https://deq.utah.gov/legacy/programs/water-quality/watersheds/docs/2016/303d-list-for%20tmdl-development.pdf>
- The Great Salt Lake Water Quality Strategy: <https://deq.utah.gov/water-quality/great-salt-lake-water-quality-strategy>

Virginia:

- VaDCR Healthy Waters Program: <http://www.dcr.virginia.gov/natural-heritage/healthywaters>

Washington:

- Information about the South Skagit Bay Project to protect shellfish beds is available here (the map is under construction): <https://ecology.wa.gov/Water-Shorelines/Water-quality/Water-improvement/Total-Maximum-Daily-Load-process/Directory-of-improvement-projects/South-Skagit-Bay-Assessment>
- Governor's Salmon Recovery Office: <https://rco.wa.gov/salmon-recovery/governors-salmon-recovery-office/>
- Information on the Teanaway Land Acquisition and State Forest for Water Conservation is available at:
 - <https://www.usbr.gov/pn/programs/yrbwep/2011integratedplan/2013meetings/2013-09-05/6factsheet.pdf>
 - <http://www.washingtonwatertrust.org/news?id=76>
- Information on the Growth Management Act and Critical Areas is available here: <http://mrsc.org/Home/Explore-Topics/Environment/Critical-Areas-and-Species/Critical-Areas.aspx>
- Information on shoreline management is available here: <https://ecology.wa.gov/Water-Shorelines/Shoreline-coastal-management/Shoreline-coastal-planning>

West Virginia:

- All developed TMDLs can be found here: <https://dep.wv.gov/WWE/watershed/TMDL/Pages/default.aspx>
- Information regarding the state's Water Quality Standards Program is available here: <https://dep.wv.gov/WWE/Programs/wqs/Pages/default.aspx>

Wisconsin:

- Wisconsin's Water Quality Restoration and Protection Prioritization Framework: [Framework](#)
- Milwaukee River Basin Total Phosphorus TMDL (the waters in the basin not on the impaired waters list are covered by the TMDL as a protection plan): [Milwaukee Basin Final TMDL](#)
- Information about state surface water grant programs, including: Lake Management Planning, Lake Protection & Classification, River Protection, River Planning, and Aquatic Invasive Species Control is available here: <https://dnr.wi.gov/aid/surfacewater.html>
- The state has worked with forestry/paper companies and counties to purchase the development rights on large land tracts (e.g. Brule St. Croix Legacy Forest https://dnr.wi.gov/files/pdf/Brule-StCroix_Legacy_Forest.pdf) to protect high-value habitat, including lakes and rivers.
- Information about legislatively-designated Wild Rivers is available at: <https://dnr.wi.gov/topic/Lands/WildRivers/>
- Information about Outstanding and Exceptional Resource Waters is available at: <https://dnr.wi.gov/topic/surfacewater/orwerw.html>

- Various statewide shoreland management regulations establish minimum standards that work to minimize the impacts of development near all waterbodies.
 - [Wisconsin's Shoreland Management Program, Ch. NR 115 Wis. Adm. Code](#)
 - [2015 Wisconsin Act 55 and Shoreland Zoning Provisions](#)
 - [Wisconsin's Floodplain Management Program, Ch. NR 116, Wis. Adm. Code](#)
 - [Wisconsin's Shoreland-Wetland Protection Program for Cities and Villages, Ch. NR 117 Wis. Adm. Code](#)
 - [Standards and criteria for the Lower St. Croix National Scenic Riverway in Wisconsin, Ch. NR 118 Wis. Adm. Code](#)