

## Report Shows Reductions In Pollutants, Improved Water Quality In The Potomac

The amounts of nitrogen and phosphorus—which in excess can degrade water quality—have declined dramatically in the Potomac River since the 1980s, and are on track for further reductions, says a new COG report.

The findings of the report, Potomac River Water Quality in Metropolitan Washington, were presented today to the COG Board of Directors. The report analyzes long-term data from 1985 to 2016, rather than relying on a single year or point in time, which can be impacted by weather conditions.

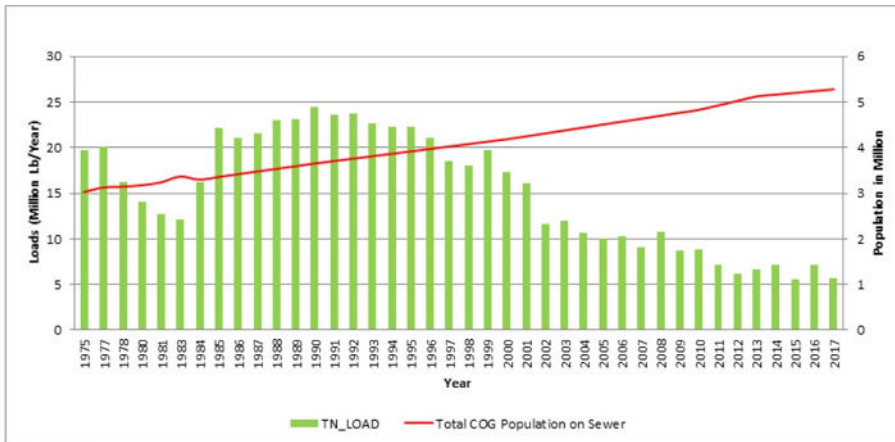
Investments in and actions by the region’s wastewater treatment plants largely account for this significant progress, supporting increases in jobs and population while improving Potomac water quality.

For example, discharges of nitrogen from the region’s wastewater treatment plants have decreased by about 75 percent from their peak in the early 90s, and phosphorous by about 94 percent from levels in the late 1970s.



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**Figure 2: Annual Total Nitrogen Loads from Regional WWTPs and Population**



Source: COG

“The Potomac River serves as the primary source of our region’s drinking water, but it’s also an important economic driver for our region, so this analysis reveals we have much to celebrate,” said Jon Stehle, Chesapeake Bay and Water Resources Policy Committee Vice Chair and City of Fairfax Councilmember. “We’re thrilled to be measuring progress in the river, but we’re also observing it, with development at National Harbor, the Wharf, and Alexandria, and renewed recreation on the water.”

### The report notes other key points of progress in the Potomac watershed:

- Nitrogen, phosphorous, and sediment are lower now in the free-flowing portion of the river upstream above Chain Bridge than in 1985.
- The more urban part of the watershed below Chain Bridge is showing improving trends in certain areas for nitrogen—specifically monitoring stations at Northwest Anacostia, Patuxent Bowie, Accotink Creek, Western Branch, and Upper Marlboro. This is likely the result of stormwater management investments.

- Data in the Potomac Estuary, where the river is influenced by tides and the Chesapeake Bay, shows a mixed picture of progress. Most portions of the estuary show short and long-term improvements in nitrogen and phosphorous levels. However, dissolved oxygen, critical to thriving marine life, is improving upstream but has shown no change or degrading trends downstream.

More visible signs of progress include less algal growth and in turn more acres of underwater grasses—12 different species—particularly in the freshwater portion of the Potomac estuary.

“Despite this great news, these reductions are not yet enough to attain water quality standards,” said Stehle. “Investments by local governments and wastewater utilities in water quality improvements are clearly working, but it will take continued investment by other sectors, particularly agriculture and stormwater, to continue these positive trends and achieve water quality standards.”

The Potomac River is part of the Chesapeake Bay watershed. The region will celebrate Chesapeake Bay Awareness Week June 1-9.

For more information, visit [Potomac River Water Quality in Metropolitan Washington](#).

*SOURCE: Metropolitan Washington Council of Governments*