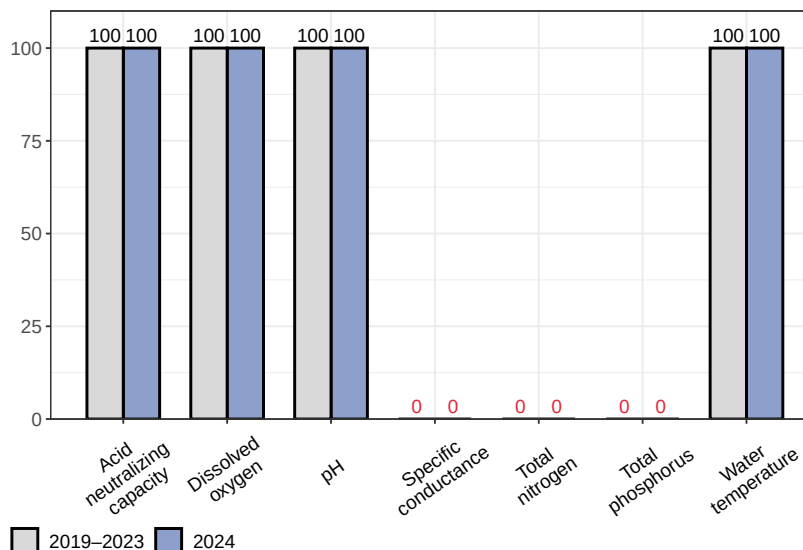


2024 Water Quality Summary

Antietam National Battlefield: Sharpsburg Creek

Percent of Measurements Passing



Sharpsburg Creek is a warmwater karst stream.

Acid Neutralizing Capacity (ANC)

Acceptable values: Above 600 $\mu\text{eq/L}$

2024 range: 4852 – 5362 $\mu\text{eq/L}$

All ANC measurements at Sharpsburg Creek were passing in 2024 and the five years prior.

Dissolved Oxygen (DO)

Acceptable values: Above 5 mg/L

2024 range: 8.88 – 12.58 mg/L

All DO measurements at Sharpsburg Creek were passing in 2024 and the five years prior.

pH

Acceptable range: 6 – 9

2024 range: 8.13 – 8.55

All pH measurements at Sharpsburg Creek were passing in 2024 and the five years prior.

Specific Conductance ▲

Acceptable values: Below 171 $\mu\text{S/cm}$

2024 range: 597 – 711 $\mu\text{S/cm}$

All specific conductance measurements at Sharpsburg Creek exceeded the acceptable threshold in 2024 and the five years prior.

Total Nitrogen ▲

Acceptable values: Below 0.31 mg/L

2024 range: 5.05 – 6.55 mg/L

All total nitrogen measurements at Sharpsburg Creek exceeded the acceptable threshold in 2024 and the five years prior.

Total Phosphorus ▲

Acceptable values: Below 0.01 mg/L

2024 range: 0.022 – 0.136 mg/L

All total phosphorus measurements at Sharpsburg Creek exceeded the acceptable threshold in 2024 and the five years prior.

Water Temperature

Acceptable values: Below 32 °C

2024 range: 5.3 – 18.7 °C

All water temperature measurements at Sharpsburg Creek were passing in 2024 and the five years prior.

Water Quality Monitoring in the NCR

This report summarizes water quality data from 2019 to 2024 for seven parameters. The National Capital Region Inventory & Monitoring Network (NCRN I&M) monitors additional water quality parameters, including depth, discharge, conductivity, and total dissolved solids. These data are available in the [NCRN I&M water quality data visualizer](#). Visit the [NCRN I&M water quality monitoring webpage](#) to learn more.