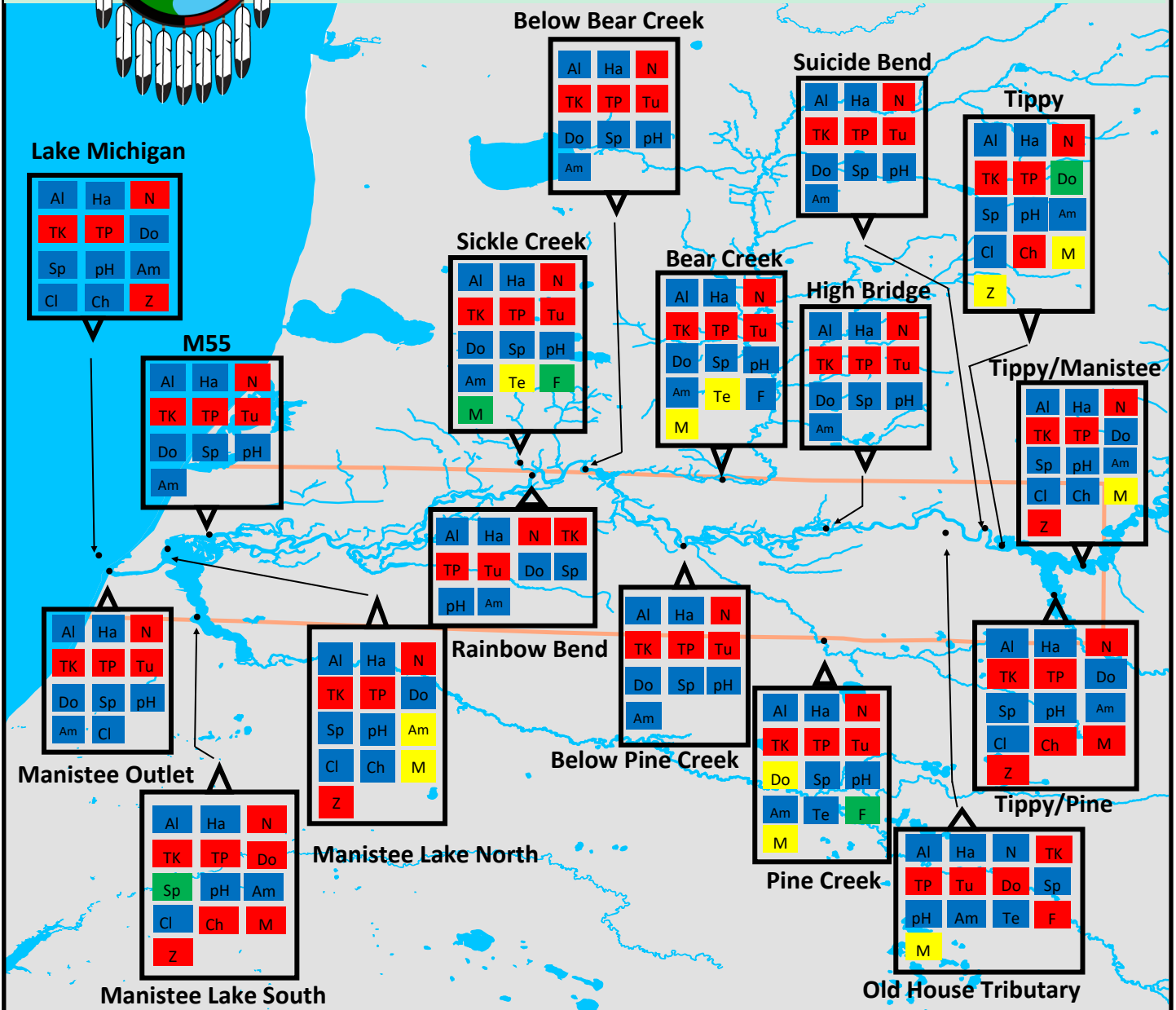




# Water Quality Report (2021-2022)



## Legend

■ Poor   
 ■ Fair   
 ■ Good   
 ■ Very Good

**Al** Alkalinity

**TP** Total Phosphorus

**Te** Temperature

**Am** Ammonia

**Tu** Turbidity

**Cl** Chloride

**Ha** Hardness

**Do** Dissolved Oxygen

**Ch** Chlorophyll a

**N** Nitrate & Nitrite

**Sp** Specific Conductivity

**F** Fish

**TK** Total Kjeldahl Nitrogen

**pH** Potential Hydrogen Ion Concentration

**M** Macroinvertebrates

**Z** Zooplankton



# Water Quality Parameters

## **Alkalinity**

The buffering capacity of water (i.e., reduce a pH change) with the addition of an acid.

## **Ammonia**

May speed the process of eutrophication in waterways and can be harmful to fish.

## **Hardness**

Measure of cations dissolved in water, primarily calcium and magnesium.

## **Nitrate & Nitrite**

Inorganic nitrogen is formed from oxidation of ammonia by bacteria. It is an important nutrients for plants.

## **Total Kjeldahl Nitrogen**

Concentration of organic nitrogen and ammonia. Common sources include fertilizers and septic leaks.

## **Total Phosphorus**

Often the limiting nutrient in water bodies. Common sources include fertilizers, cleaners, and wastewater.

## **Turbidity**

Indicator used to measure water clarity. Influenced by algal concentrations and suspended sediment.

## **Dissolved Oxygen**

Amount of oxygen dissolved in water, used by all aquatic organisms. Low levels can be a pollution indicator.

## **Specific Conductivity**

Measure of water's ability to conduct an electrical current. Related to the amount of ions in solution.

## **Potential Hydrogen Ion Concentration (pH)**

Metric used to measure how acidic or basic a solution is.

## **Chloride**

Indicator of salinity. Major sources include road salts, salt wells, and water softeners.

## **Chlorophyll a**

Indicator of algal biomass. As algal biomass increases over certain thresholds, water quality can decrease.

## **Fish/Macroinvertebrates**

Biological indicator of water quality, incorporating diversity, pollution tolerance, and temperature threshold.