

## Village of Empire Water Testing

WHAT gets tested?

WHO does the testing?

When is the testing done?

What	Who	When	Notes
<b>Drinking Water</b>	Village of Empire	Frequency is determined by the Michigan Department of Environment, Great Lakes and Energy (EGLE). Formerly the DEQ.  <a href="#">Safe Drinking Water Rules</a>	The Village has 4 wells, greater than 125 feet deep. Samples are collected and sent for testing per EGLE requirements.
<b>Ground Water (GW)</b> 5 GW Test Wells*  9 Storm Water Infiltration Drains ----7 on Front Street ----2 Lake Street ----MDOT (M-22)  *placed during a 1990 study on wastewater system need	Village of Empire	Quarterly	Ground Water testing for Nitrate, Nitrite, Ammonia, Conductivity, Phosphorous.
<b>Beaches</b> Lake Michigan South Bar	Contracted thru Benzie-Leelanau Health Department	Weekly on a seasonal basis	Sampled weekly during the summer season for body contact.
<b>South Bar Lake Monitoring</b> Health of South Bar Lake and shoreline flora and fauna.	Paid for by the Village through Contracted Service <sup>1</sup>	Every 3-5 years	Village of Empire has performed this larger study every 3-5 years. With implementation of recommendations to occur between testing cycles.
<b>South Bar Lake CLMP Testing</b>			
Water Clarity	South Bar Lake Association	Weekly/Seasonal	A Secchi Disk is used for this.
Spring and Summer Phosphorus Testing	South Bar Lake Association	Spring just after ice has melted  Summer - September	Measures the phosphorus concentration in the lake.
Chlorophyll A	South Bar Lake Association	5 times per year (every other year)	
<b>South Bar Lake Aquatic Plant Mapping</b>	South Bar Lake Association	1 <sup>st</sup> done in 2014. Completed again in 2016 and 2017.	
<b>South Bar Lake E.coli DNA Testing</b>	MSU Laboratory through Grobbel Environmental	When high levels of E.coli are present. 4 times in 2021/2022.	

Testing was suspended in 2020. It was resumed in 2021.

Michigan Clean Water Corps (MiCorps) Fact Sheets  
<https://micorps.net/lake-monitoring/clmp-documents/>

<sup>1</sup> 2008; 2013 Great Lakes Environmental Center, 2020 Grobbel Environmental