

## January Lake Water Quality Report

What We Measured	What It Means	Current Result	Status
<b>Water Temperature</b>	Indicates how warm the water is — different fish thrive in different temperature ranges.	<b>49.81°F (average)</b>	✅ Ideal for trout and other cold-water species; cooler than preferred for warm-water fish.
<b>Water Clarity (Transparency)</b>	How far down we can see — lower clarity may indicate algae or sediment.	<b>~12"</b>	⚠️ Below typical clarity (20–25"), likely due to increased algae or suspended sediment.
<b>Water Color</b>	Can indicate algae or sediment presence.	Light Olive	⚠️ Olive tint suggests mild to moderate algae presence — being monitored.
<b>pH Level</b>	Measures how acidic or basic the water is.	<b>8.24–8.88</b>	✅ Within a safe range for fish and aquatic life; slightly alkaline, which is normal for lakes.
<b>Oxygen Saturation</b>	Indicates how much oxygen the water holds compared to its maximum capacity.	<b>94.54% (average)</b>	✅ Excellent oxygen availability for aquatic organisms.
<b>Dissolved Oxygen</b>	Shows the actual amount of oxygen available in water (mg/L).	<b>10.66 mg/L (average)</b>	✅ Very healthy levels that strongly support fish and wildlife.
<b>Invasive Mussels Check</b>	Checks for harmful species like Zebra or Quagga mussels.	None detected	✅ No invasive mussels found — monitoring continues.

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## What Residents Should Know

### • Fish & temperature conditions:

- Trout and other cold-water fish thrive around **50–60°F**, making current temperatures ideal.
- Warm-water fish (bass, bluegill, crappie) may be less active due to cooler water.

### • Water clarity & color:

- Typical lake clarity is **20–25 inches**; the current **12-inch** reading indicates **reduced visibility**.
- Light olive water suggests increased algae or suspended sediment; conditions are being closely monitored and are **not currently a health risk**.

### • Oxygen levels:

- **Dissolved oxygen at 10.66 mg/L** and **94.54% saturation** indicate excellent support for aquatic life, even with reduced clarity.

### • pH balance:

- The pH range of **8.24–8.88** remains safe for fish and other organisms.

### • Invasive species:

- No Zebra, Quagga, or other invasive mussels detected. Continued prevention efforts remain important.

### • Overall condition:

- The lake remains in **good overall health**, with strong oxygen levels and stable chemistry.
- Reduced clarity is the primary concern at this time and will continue to be monitored.