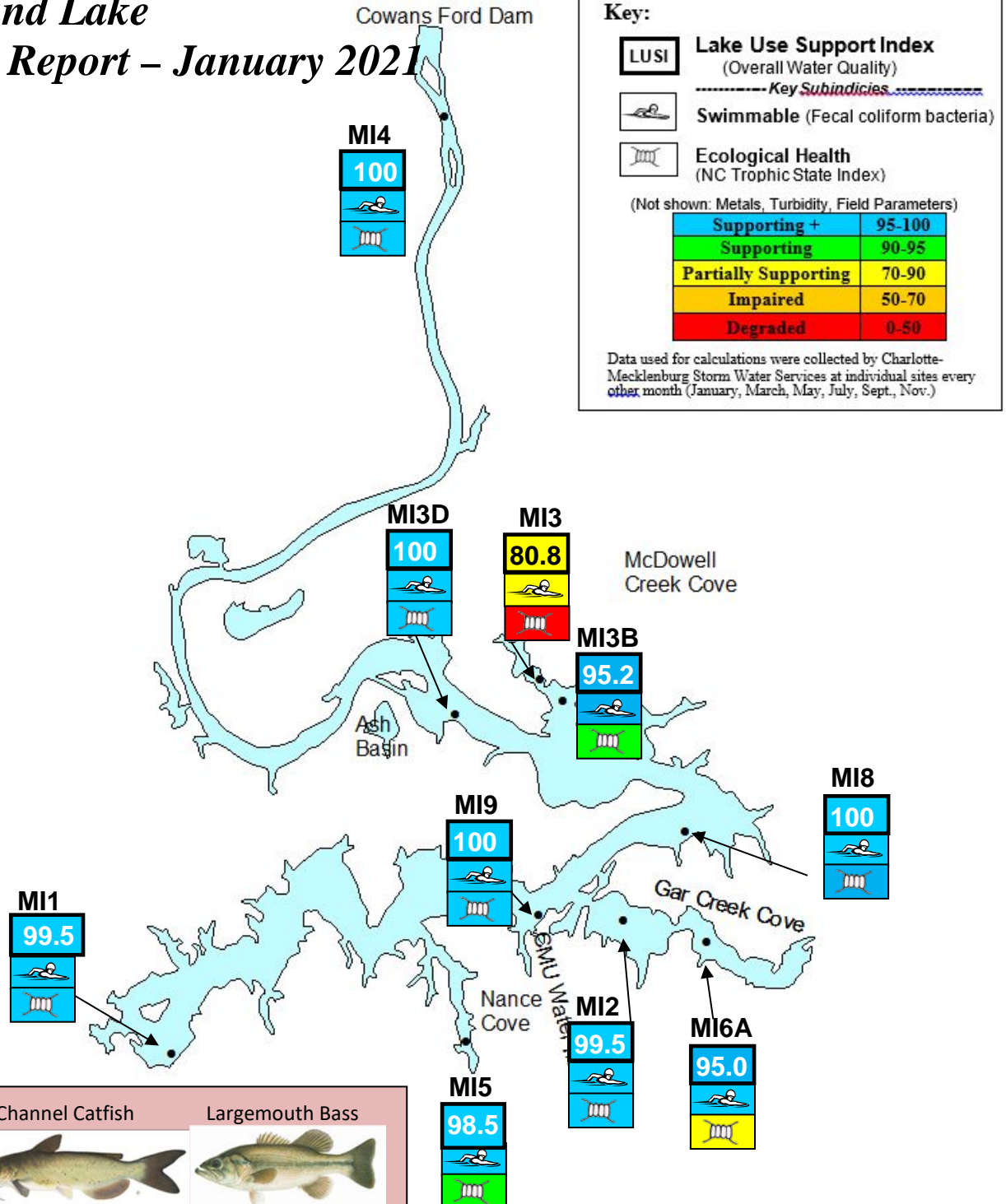


# Mountain Island Lake Water Quality Report – January 2021

**Lake Use Support Index**  
Bi-Monthly Sampling Period:  
January 2020 – January 2021

## Current Month Bacteria Results

Site	Date	Fecal Coliform (col./100 ml)	E. Coli (MPN/100 ml)
MI1	1/26	4	6
MI2	1/26	9	9
MI3	1/26	600	2420
MI3B	1/26	28	23
MI3D	1/26	5	11
MI4	1/26	4	7
MI5	1/26	38	43
MI6A	1/26	68	85
MI8	1/26	6	7
MI9	1/26	15	9
<b>Action Level</b>		<b>200</b>	<b>200</b>



### Fish Consumption Advisories

Issued by the NC Division of Public Health to protect citizens from exposure to contaminants like PCBs and mercury.

Blue Catfish



Channel Catfish



Largemouth Bass



For more information visit: [stormwater.charmeck.org](http://stormwater.charmeck.org)

# Mountain Island Lake

- Routine lake monitoring for January conducted on 1/26/21
- Average water temperature on day of sampling = 49.7 F
- Lake level on day of monitoring = 97.6 ft (target = 96.0 ft)
- Average water clarity on day of monitoring = 1.3 m (4.27 ft)

<b>Routine Monitoring Sites</b>	MI1	Mountain Island Dam
	MI2	Gar Creek Cove (main)
	MI3	McDowell Creek Cove (creek)
	MI3B	McDowell Creek Cove (main)
	MI3D	Main channel, upstream of McDowell Creek
	MI4	Headwaters, downstream of Lake Norman Dam
	MI5	Shuffletown Boat Landing (Nance Cove)
	MI6A	Gar Creek Cove (creek)
	MI8	Main channel, downstream of McDowell Creek
	MI9	Charlotte Water intake (main channel)

## **Routine Lake Monitoring Efforts (every other month)**

Physical Parameters	Wet Chemistry Analyses
<ul style="list-style-type: none"> <li>• Secchi Depth in meters (water clarity)</li> <li>• Temperature (°C)</li> <li>• Specific Conductivity (µS)</li> <li>• Dissolved Oxygen (% and mg/l)</li> <li>• pH</li> <li>• Turbidity (NTU)</li> <li>• Chlorophyll A (RFU)</li> </ul>	<ul style="list-style-type: none"> <li>• Fecal Coliform Bacteria (CFU/100ml)</li> <li>• E.coli Bacteria (MPN/100ml)</li> <li>• Turbidity (NTU)</li> <li>• Nitrate/Nitrite (mg/l)</li> <li>• Ammonia (mg/l)</li> <li>• Total Phosphorus (mg/l)</li> <li>• Total Kjeldahl Nitrogen (mg/l)</li> <li>• Chlorophyll A (µg/l)</li> </ul>

Questions/Comments/More information? Please contact:

Dave Ferguson, Sr. Environmental Specialist [dave.ferguson@mecknc.gov](mailto:dave.ferguson@mecknc.gov)