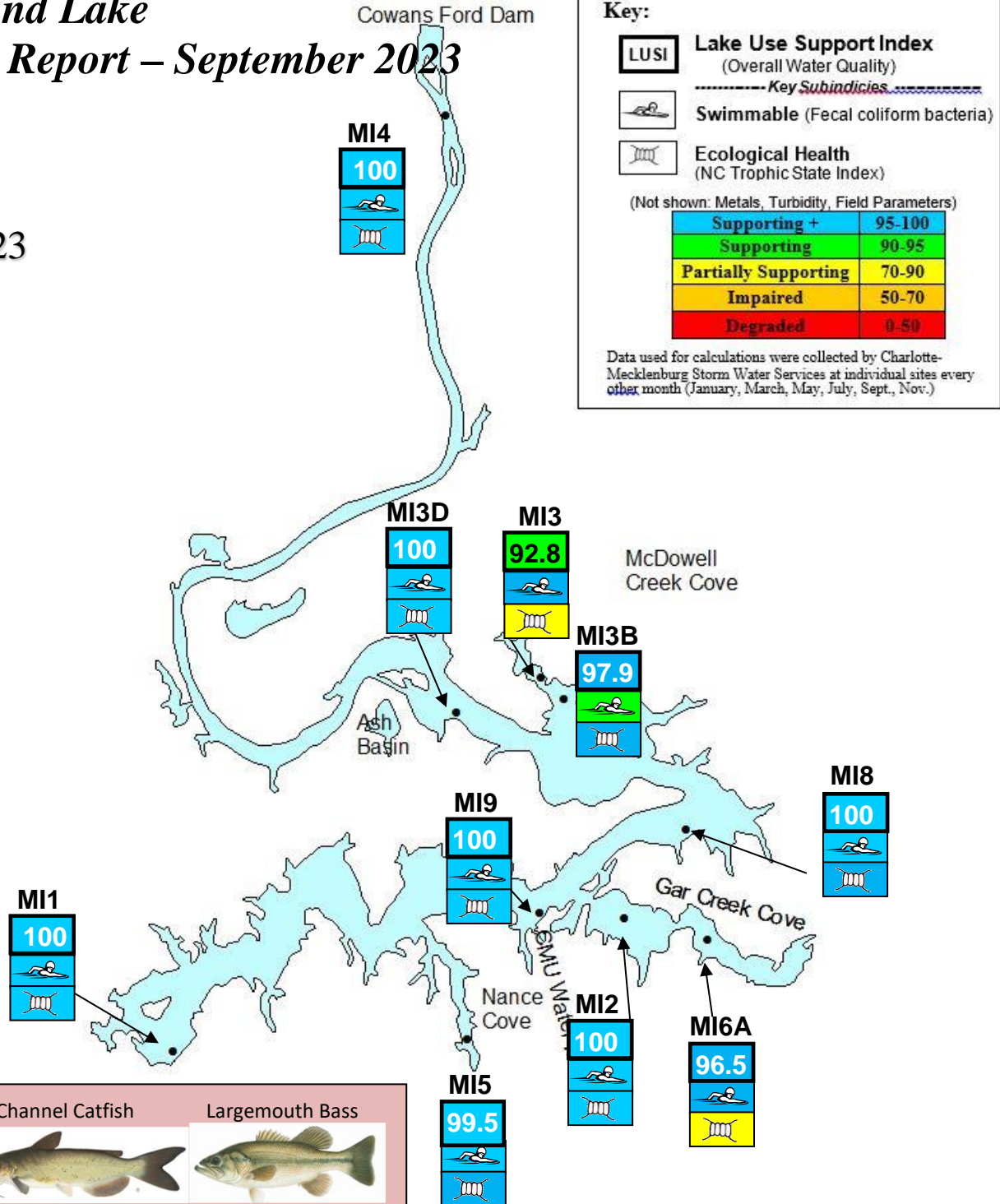


Lake Use Support Index Bi-Monthly Sampling Period: November 2022 – September 2023

Current Month Bacteria Results

Site	Date	Fecal Coliform (col./100 ml)	E. Coli (MPN/100 ml)
MI1	9/12	4	2
MI2	9/12	8	8
MI3	9/12	70	82
MI3B	9/12	102	54
MI3D	9/12	4	6
MI4	9/12	15	8
MI5	9/12	8	9
MI6A	9/12	5	11
MI8	9/12	47	30
MI9	9/12	7	4
Action Level		200	200



Key:

- LUSI** Lake Use Support Index (Overall Water Quality)
- **Key Subindices** -----
- Swimmable** (Fecal coliform bacteria)
- Ecological Health** (NC Trophic State Index)

(Not shown: Metals, Turbidity, Field Parameters)

Supporting +	95-100
Supporting	90-95
Partially Supporting	70-90
Impaired	50-70
Degraded	0-50

Data used for calculations were collected by Charlotte-Mecklenburg Storm Water Services at individual sites every other month (January, March, May, July, Sept., Nov.)

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

Mountain Island Lake

<ul style="list-style-type: none"> • Routine lake monitoring for September conducted on 9/12/23 • Average water temperature on day of sampling = 84.4 F • Lake level on day of monitoring = 96.6 ft (target = 96.0 ft) • Average water clarity on day of monitoring = 1.92 m (6.29 ft) 		
Routine Monitoring Sites	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"> • Secchi Depth in meters (water clarity) • Temperature (°C) • Specific Conductivity (µS) • Dissolved Oxygen (% and mg/l) • pH • Turbidity (NTU) • Chlorophyll A (RFU) 		<ul style="list-style-type: none"> • Fecal Coliform Bacteria (CFU/100ml) • E.coli Bacteria (MPN/100ml) • Turbidity (NTU) • Nitrate/Nitrite (mg/l) • Ammonia (mg/l) • Total Phosphorus (mg/l) • Total Kjeldahl Nitrogen (mg/l) • Chlorophyll A (µg/l)

Questions/Comments/More information? Please contact:

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