



LAKE WYLIE
MARINE COMMISSION



OUR MISSION STATEMENT

TO PROMOTE PUBLIC POLICIES AND
SUPPORT REGULATIONS FOR THE
PRESERVATION OF LAKE WYLIE AND ITS
WILDLIFE AND FOR THE EDUCATION AND
SAFETY OF THE CITIZENS WHO USE THIS
BEAUTIFUL NATURAL RESOURCE



AREAS THE LWMC ADDRESSES

- SAFETY
- POLLUTION / WATER QUALITY & CAPACITY
- SEDIMENTATION / EROSION CONTROL
- LAWS AND LAW ENFORCEMENT
- EDUCATION
- ENVIRONMENT

SAFETY

NO-WAKE BUOYS

- LWMC SCREENS APPLICATIONS; STATES APPROVE
- LWMC PLACES AND MAINTAIN NC NO-WAKE BUOYS
- MISPLACED NO-WAKE BUOYS WERE REPLACED
- NC WILDLIFE MANAGES ALL DANGER BUOYS IN NC
- SC DNR PLACES AND APPROVES ALL BUOYS IN SC



POLLUTION

RIVERSWEEP

- FINANCIALLY SUPPORT CATAWBA RIVERKEEPER
- BUSINESSES TO DONATE GLOVES, BOTTLED WATER, GRABBERS
- 2025: Oct 4th (222 volunteers, 299 bags of trash 8,862 lbs. (still debris from HELENE))
- 2024: MANY SITES CANCELED BECAUSE OF HELENE, NO BOATS, LAND-BASED CLEANUP ONLY
- COUNTIES PROVIDE DUMPSTERS & TRASH BAGS

WATER QUALITY

SWIM GUIDES

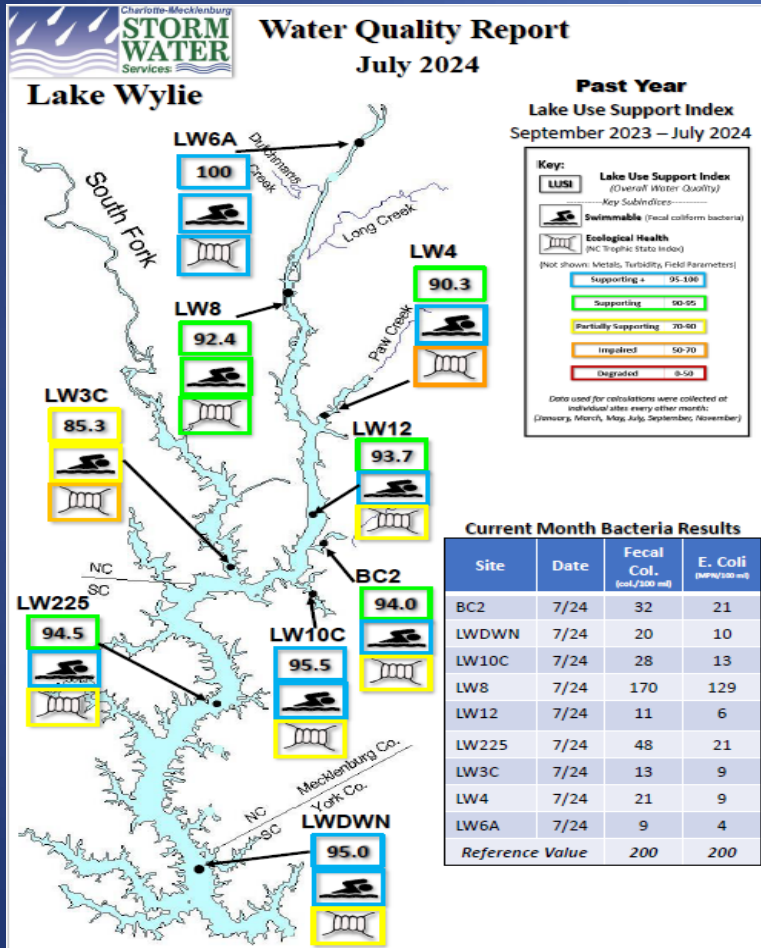
- LWMC SPONSORES 2 SWIM GUIDES ON LAKE WYLIE THROUGH THE CATAWBA RIVERKEEPER PROGRAM

WATER IS TESTED - THURSDAYS

RESULTS PUBLISHED - FRIDAYS

- SITE HITS +160,000 IN THE 2024 SEASON, WITH +14,000 VIEWS FOR LAKE WYLIE

WATER QUALITY – CLT WATER



Lake Wylie

- Routine lake monitoring for July conducted on 7/24/24
- Average water temperature on day of sampling = 85.5 F
- Lake level on day of monitoring = 97.8 ft (target = 97.0 ft)
- Average water clarity on day of monitoring = 1.26 m (4.1 ft)

Routine Monitoring Sites	BC2	Brown's Cove
	LWDWN	Main Channel @ Windjammer Point
	LW10C	Wither's Cove
	LW8	Main channel at Interstate 85 bridge
	LW12	Main channel, downstream of Paw Creek
	LW225	Main channel at Buster Boyd Bridge (Hwy 49)
	LW3C	South Fork Catawba River (at Hwy 273 bridge)
	LW4	Paw Creek Cove
	LW6A	Headwaters, upstream of Dutchman's Creek

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)

Fish Consumption Advisories
Issued by the NC Div. of Public
Health to protect citizens from
exposure to contaminants like
PCBs and mercury.



Largemouth Bass

For more information: stormwater.charmeck.org

Questions/Comments/More information?
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INTER-BASIN TRANSFER (IBT)

CHARLOTTE WATER IBT & MOORSEVILLE IBT

LWMC SUPPORTS IBT WITH SPECIFIC CAVEATS;

- LIMIT LAKE SEDIMENTATION
- CONTROL/STORE RAINWATER RUNOFF
- RECOMMENDED DREDGING TARGETED SHALLOW AREAS TO INCREASE CAPACITY
- IMPLEMENT CORRECTIVE ACTIONS TO PREVENT RECURRENCE OF IBTs

SEDIMENTATION

**SEDIMENTATION WILL
FILL IN THE LAKE IF
NOT MANAGED**



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SEDIMENTATION – EROSION CONTROL

- MECKLENBURG COUNTY - STRONGEST EROSION AND STORMWATER CONTROL MEASURES (E & SCMs)
- YORK COUNTY - UPGRADED ORDINANCES IN 2019
- GASTON COUNTY
 - SITE PLAN APPROVED BEFORE GRADING
 - NO PERMITS BEFORE REZONING
 - PHASE CLEARING OF SITES
 - FEW SPECIFIC E & SCMs IN ORDINANCES
 - PURSUING ENHANCED E & SCMS IN MUNICIPALITY ORDINANCES WITH CATAWBA RIVERKEEPER

LAW ENFORCEMENT SUPPORT

- LIFE JACKETS & CHEM LIGHTS ON ALL POLICE BOATS
- STABILIZING BINOCULARS TO YCSO AND CMPD
- GASTON COUNTY POLICE BOAT HOUSE



LWMC \$125k
(commitment)

RENTAL VESSEL REGULATION

- 2024; DRAFTED RENTAL BOAT AND CHARTER BOAT REGULATIONS FOR LAKE WYLIE, CIRCULATED DRAFT WITH ALL THREE COUNTIES
- 2025; PULLED CHARTER BOAT PORTION AND WORKED WITH COAST GUARD TO ENFORCE EXSISTING FEDERAL CHARTER BOAT REGULATIONS
- GASTON COUNTY IS INVESTIGATING A STATEWIDE SOLUTION
- 2026; PLAN TO IMPLEMENT AN INTERIM LWMC REG

PWC INSURANCE REGULATION

PERSONAL WATERCRAFT INSURANCE REQUIREMENTS ARE INCONSISTENT BETWEEN NORTH AND SOUTH CAROLINA

- NC – PWC OWNER MUST HAVE COMMERCIAL LIABILITY INSURANCE AND PROVIDE INSURANCE TO RENTEE
- SC – BOTH OWNER AND RENTEE ARE LIABLE; NO PWC INSURANCE REQUIREMENT

LWMC PWC INSURANCE REGULATIONS NOW CONSISTENT ACROSS LAKE WYLIE

EDUCATION EFFORTS

- CATAWBA-WATEREE WATER MANAGEMENT GROUP'S CITIZEN'S WATER ACADEMY
- MONTHLY NEWSLETTER
- MONTHLY MEETINGS (not in DEC)
- MID-ATLANTIC BOAT SHOW
- RIVERFEST IN BELMONT
- FORK FEST IN McADENVILLE
- LAW ENFORCEMENT USCG CHARTER BOAT REGS
- *LAKEWYLIEMARINECOMMISSION.COM*

ENVIRONMENT– CLEAN MARINAS

SOUTH CAROLINA ONLY

- SEWAGE HANDLING
- STORMWATER MANAGEMENT
- BOAT MAINTENANCE
- SOLID WASTE MANAGEMENT
- SAFETY AND EMERGENCY PLANNING
- OIL & OTHER HAZARDOUS WASTE HANDLING



ENVIRONMENT - HYDRILLA CONTROL

Carp and Chemicals



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Photo by
Sandy Dupuy

ENVIRONMENT - ALLIGATOR WEED



- THRIPS
- MANUAL REMOVAL



LAKE WYLIE
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ENVIRONMENT - HURRICANE HELENE

- DUKE CONVENED PARTIES
 - LWMC, LNWC, NCWRSC, CATAWBA RIVERKEEPER, NORTH CAROLINA WILDLIFE FEDERATION
- DUMPSTERS, BARGES, AND CRANES
- VOLUNTEER AND CONTRACTED WORK
- DEADHEADS, IMPLANTED TREES IN LAKE WYLIE
- SEDIMENTATION – PHOSPHORUS
- **STILL WORKING WITH DUKE LAKE SERVICES**

ENVIRONMENT - LYNGBYA

WHY: CAN CAUSE SICKNESS IN CHILDREN AND PETS, REQUIRES SPECIAL INTAKE FILTERING. SHOULDN'T BE USED FOR IRRIGATION. ODOR.

SOLUTION:

NORTH CAROLINA STATE UNIVERSITY AQUATIC PLANT MANAGEMENT PROGRAM

- LAKE GASTON LYNGBYA WAS IGNORED TOO LONG
- CHEMICAL TREATMENT IS EFFECTIVE

APRIL TO SEPTEMBER TREATMENTS; 3 TO 4 YEARS



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ENVIRONMENT - LYNGBYA

(Microseria wollei)

- INVASIVE SPECIES - CYANOBACTERIA
- LYNGBYA APPEARS AS ALGAL “MATS” RISING FROM THE LAKE BED
- NEW TO THE CATAWBA RIVER BASIN

LAKE WYLIE; 4.5->10 Ac

LAKE NORMAN; 10->25 Ac

MT. ISLAND; 20->25 Ac

- LAKE GASTON – 1,200 ACRES



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ENVIRONMENT - LYNGBYA

CHEMICAL TREATMENT WORKS (OVER 3-5 YRS)

- LAKE WYLIE; \$31K (LWMC) -> \$41k
- MT. ISLAND; \$100K (CLT) -> \$97k
- LAKE NORMAN; \$60K -> \$103k

- LAKE GASTON; 2024 \$1.3M (2025 ?)



ENVIRONMENT - LYNGBYA

- LYNGBYA ADDED TO THE LIST FOR NC FUNDING, FUNDING IS FOR LAKES THROUGHOUT NC
- STEERING COMMITTEE DUKE, LWMC, LNMC, CHARLOTTE WATER, YORK COUNTY WATER, NORTH CAROLINA STATE UNIVERSITY
 - CONVENE LYNGBYA CONFERENCE JANUARY
 - PRESENT DATA ON EFFICACY OF TREATMENTS
 - HURRICANE HELENE'S EFFECT ON LYNGBYA
 - SPECIFIC FUNDING NEEDED TO COMBAT LYGNBYA

HEADS UP – 2 ISSUES

EACH COUNTY MUST FUND THE LWMC IN EQUAL PORTION NC General

Statutes - Chapter 77 Article 4 (a)(f)

- LWMC IS FUNDED BY 3 COUNTYS @ \$25K/YR (last 10 yrs)
- GASTON COUNTY REDUCED LWMC FUNDING -25% (\$6,250) FOR 2025 TO \$18,750 (vs \$25,000)
- LWMC IS EVALUATING OPTIONS TO EQUALIZE ALL COUNTIES

AN INCREASE IN LWMC FUNDING 2026 WAS ALREADY NEEDED

- LWMC ADMINISTRATIVE COSTS HAVE DOUBLED
- REQUIRED GOVERNMENTAL AUDIT COSTS HAVE DOUBLED
- LWMC LEGAL FEES HAVE TRIPLED
- EXECUTIVE DIRECTOR SALARY \$25K CANNABALIZED TO SUBSIDIZE BUDGET
- GASTON DEFERRED \$8,900 OF LYNGBIA TREATMENT COSTS TO BELMONT/GASTONIA



**We Protect, Preserve, and Promote
Lake Wylie as a Clean and Safe Recreational
Waterway**

**For more information, visit
LakeWylieMarineCommission.com**