



**LAKE WYLIE**  
**MARINE COMMISSION**





## **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.

# KEY FOCUS AREAS

- SAFETY
- LAW ENFORCEMENT
- EDUCATION
- ENVIRONMENT & POLLUTION



# SAFETY

- PERSONAL FLOTATION DEVICES (PFDs) PROVIDED FOR DISTRIBUTION AS NEEDED BY LAW ENFORCEMENT
- MONITOR AND NOTIFY NC AND SC OF DANGER BUOYS OUT OF POSITION

# SAFETY

- NO WAKE ZONES (NWZs)
  - LWMC SCREENS AND FORWARDS REQUESTS FOR NWZs TO NCWRC / SCDNR
  - SCDNR APPROVES NWZs AND PLACES BUOYS



# SAFETY

- NO WAKE ZONES (CONT'D)
  - IN NC, NORTH CAROLINA WILDLIFE RESOURCES COMMISSION HAS FINAL APPROVAL.
  - IF LWMC RECOMMENDS A NWZ, A NCWRC INVESTIGATOR VISITS SITE.
  - LWMC PLACES BUOY(S) ONCE THE INVESTIGATOR COCNCURS.
    - PROCESS COMPLIES WITH THE LAW
    - HAS NCWRC CONCURRENCE
  - TAKES 6-8 MONTHS TO ADD THE NO WAKE ZONE TO THE NC ADMINISTRATIVE CODE
  - LAW ENFORCEMENT CAN THEN BEGIN



LAKE WYLIE  
MARINE COMMISSION

# LAW ENFORCEMENT

- CHARLOTTE-MECKLENBURG POLICE DEPARTMENT (CMPD): GIVEAWAY MATERIALS TO PROMOTE SAFE BOATING PRACTICES
- YORK COUNTY SHERIFF'S OFFICE (YCSO): WATER RESCUE TRAINING DUMMY, INFLATABLE PFD, DIVE SUIT, AQUATIC FINs
- GASTON COUNTY: FERC APPLICATION FOR BOAT HOUSE IN FINAL DUKE REVIEW



# EDUCATION

- GUEST PRESENTER IN THE CATAWBA-WATEREE WATER MANAGEMENT GROUP'S CITIZENS' WATER ACADEMY (FEBRUARY 2021)
- *"WHY IS LAKE WYLIE BROWN?"* PRESENTATION ADDED TO LWMC WEBSITE
  - PRESENTATION BY DAVE FERGUSON (LUESA)
- PSAs AS OCCURRING (E.G., NEW NO WAKE ZONES)
- PARTICIPATED IN CATAWBA RIVERKEEPER FOUNDATION'S RIVERFEST 2021 IN BELMONT



# ENVIRONMENT – RIVERSWEEP

- LWMC JOINED THE CATAWBA RIVERKEEPER FOUNDATION (CRF) IN A BASIN-WIDE CLEANUP LAST YEAR AND WILL DO SO AGAIN IN 2021.
- 2020 RIVERSWEEP RESULTS:
  - 1,400 VOLUNTEERS, 43 SITES - **61,000 LBS.** OF TRASH COLLECTED FROM LAKE JAMES TO LAKE WATEREE
  - 400 VOLUNTEERS, 13 SITES - **15,000 LBS.** OF TRASH COLLECTED FROM LAKE WYLIE

# ENVIRONMENT – RIVERSWEEP



**LAKE WYLIE**  
MARINE COMMISSION



# ENVIRONMENT – RIVERSWEEP





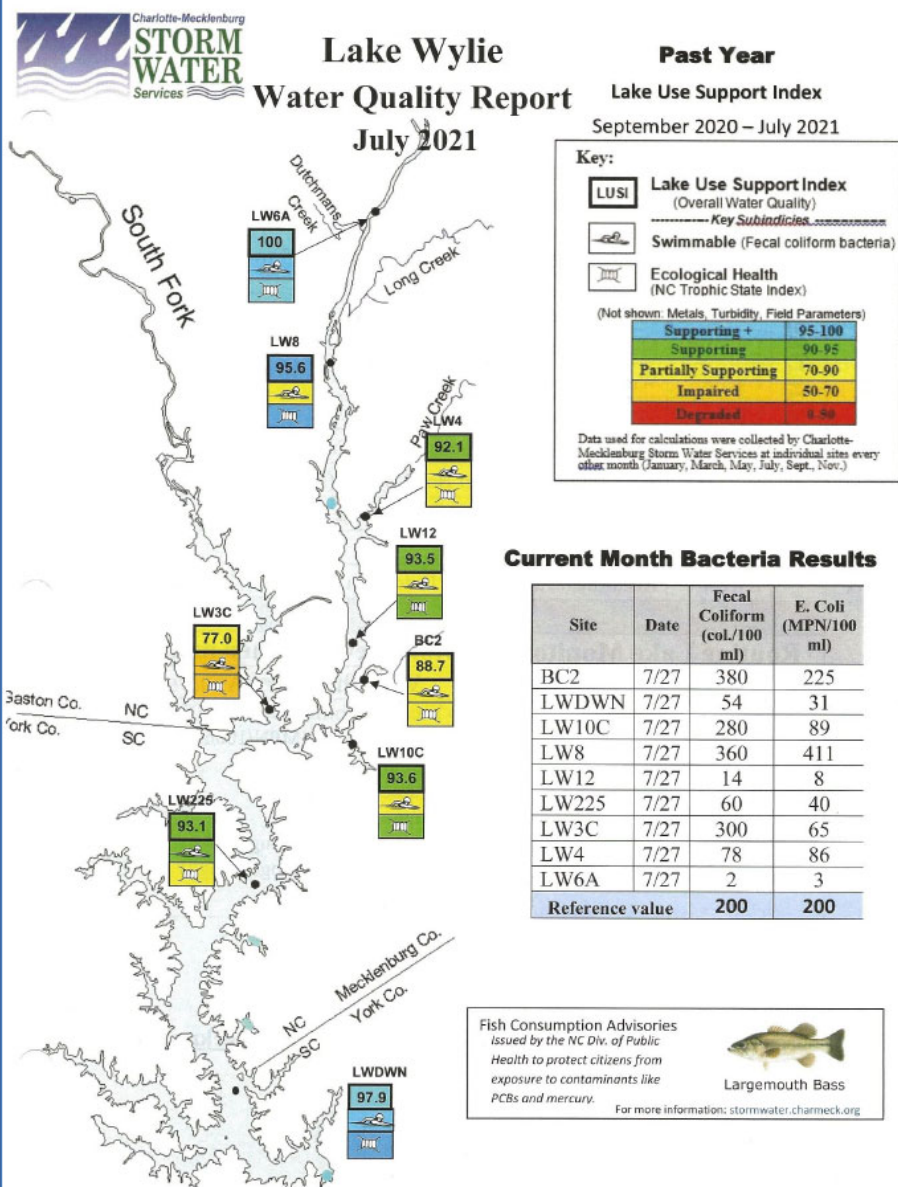
# ENVIRONMENT – RIVERSWEEP



**LAKE WYLIE**  
MARINE COMMISSION



# ENVIRONMENT – WATER QUALITY



## Lake Wylie

- Routine lake monitoring for July conducted on 7/27/21
- Average water temperature on day of sampling = 85.2 F
- Lake level on day of monitoring = 97.2 ft (target = 97.0 ft)
- Average water clarity on day of monitoring = 1.25 m (4.12 ft)

Routine Monitoring	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"> <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)

# ENVIRONMENT – WATER QUALITY

## CYANOBACTERIA

- NATURALLY OCCURRING IN SHALLOW WATERS WITH HIGH TEMPERATURES



# ENVIRONMENT - CYANOBACTERIA

- CYANOBACTERIA BLOOMS IN BOYD'S COVE
  - HARMFUL TO HUMANS AND ANIMALS
- CHARLOTTE STORM WATER SERVICES REQUESTED LWMC TO ORGANIZE PATROLS TO WARN OF THE TOXIC WATER
  - LWMC COMMISSIONERS
  - US COAST GUARD AUXILIARY MEMBERS
  - CATAWBA RIVERKEEPER FOUNDATION STAFF
  - CATAWBA SAIL AND POWER SQUADRON MEMBERS



# ENVIRONMENT – HYDRILLA CONTROL



**LAKE WYLIE**  
MARINE COMMISSION

Photo by  
Sandy Dupuy



# ENVIRONMENT – ALLIGATOR WEED



# ENVIRONMENT – CLEAN MARINA PROGRAM

- SEWAGE HANDLING
- STORM WATER MANAGEMENT
- BOAT MAINTENANCE ACTIVITIES
- SOLID WASTE MANAGEMENT
- SAFETY AND EMERGENCY PLANNING
- OIL AND OTHER HAZARDOUS WASTE HANDLING





# ENVIRONMENT – POLLUTION AND SEDIMENTATION

**SEDIMENTATION  
IS A CANCER ON  
THE LAKE**



**LAKE WYLIE**  
MARINE COMMISSION

# ENVIRONMENT – EROSION CONTROL

- JOINT BOAT TOUR IN APRIL WITH GASTON AND MECKLENBURG COUNTY COMMISSIONERS AND OFFICIALS
  - LED TO BRIEF BY RUSTY ROZZELLE TO GASTON COUNTY COMMISSION
  - GASTON COUNTY REVIEWING POSSIBILITY OF ENHANCED STORMWATER CONTROL MEASURES (SCMs) COUNTY-WIDE





# ENVIRONMENT – EROSION CONTROL

- PETITIONED BELMONT CITY COUNCIL FOR ENHANCED SCMs - **CONDITIONAL REZONING** FOR A DEL WEBB PROJECT ON THE SOUTH FORK RIVER
- ACTIVE CONSTRUCTION MEASURES
  - DOUBLE HIGH HAZARD SILT FENCING IN SOME AREAS
  - LARGE SEDIMENT BASINS WITH FOREBAYS, BAFFLES, AND DEWATERING SKIMMERS WITH FILTER BAGS AND SHUTOFF VALVES ON THE ON THE DISCHARGE PIPING
  - CONTINUOUS AUTOMATED MONITORING DEVICE FOR MEASURING TURBIDITY, WATER LEVEL, AND RAINFALL
  - THIRD PARTY INSPECTION AFTER RAINFALL  $> \frac{1}{2}$ "
  - RESEEDING DISTURBED AREAS IN 5 DAYS

# ENVIRONMENT – EROSION CONTROL

## POST CONSTRUCTION EROSION CONTROL

- SCMs CAPABLE OF RETAINING THE 25-YEAR STORM RUNOFF VOLUME WITH AN OUTFALL SIZED TO CONVEY THE 10-YEAR STORM VOLUME OVER A PERIOD OF 3-5 DAYS

## SCMs NOT APPROVED

- PRE AND POST CONSTRUCTION BATHYMETRIC SURVEYS
- NEEDED FOR ACCOUNTABILITY
  - TORRENCE CREEK - MATTAMY HOMES
  - MOUNTAIN ISLAND LAKE - LENNAR HOMES
  - MILL CREEK - DR HORTON



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

**For more information, visit  
[LakeWylieMarineCommission.com](http://LakeWylieMarineCommission.com)**