

Clean Water Act

NC Integrated Report (IR) 305(b) List of impaired waters NC 303(d)

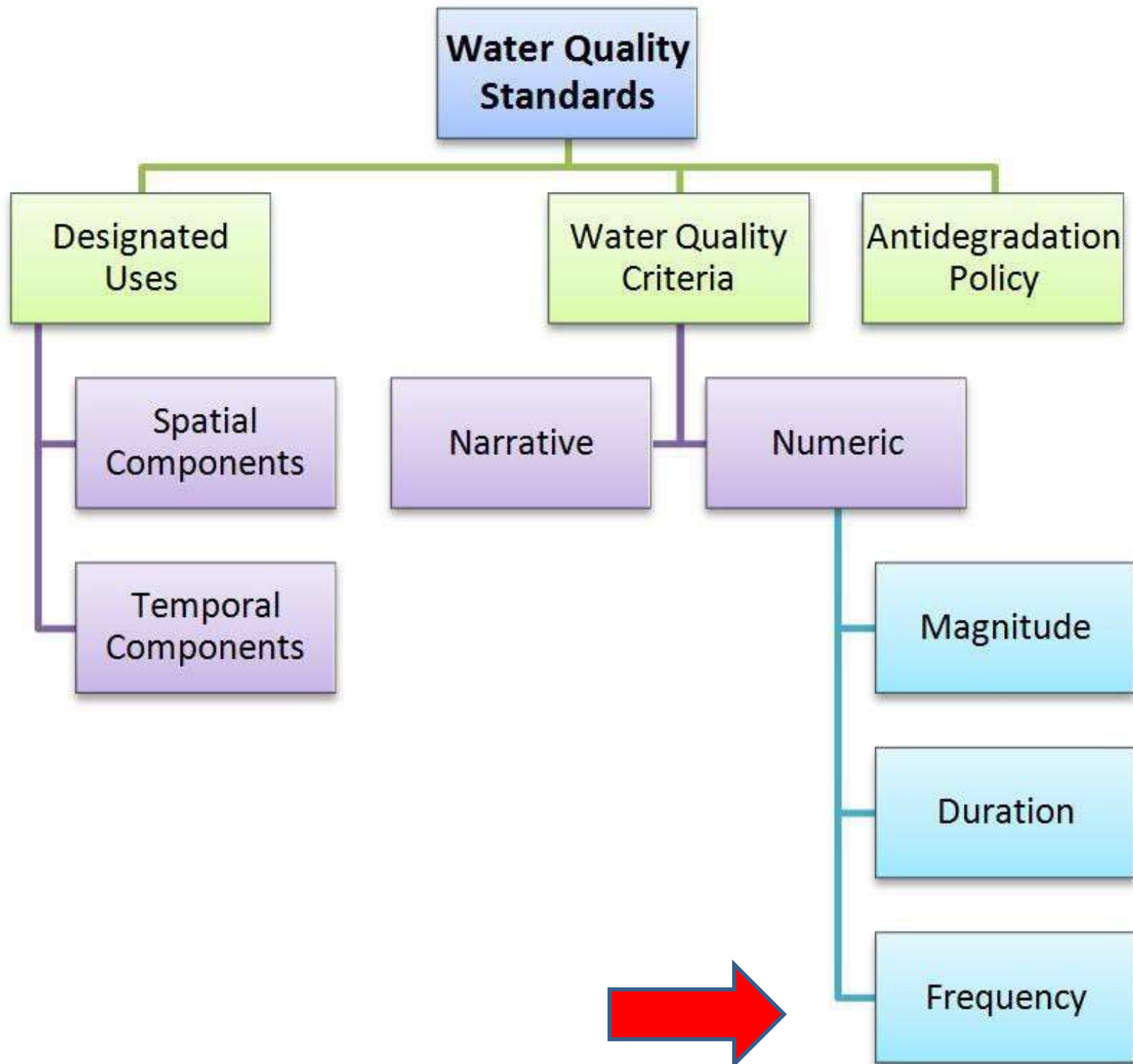
303(d) list identifies waters to Congress and Public that:

- Do not meet water quality standards and have no regulatory process in place to restore waters and attain standards
- Require development of total maximum daily load (TMDL) or other restoration plan (Falls Lake Strategy)
- states develop list every 2 years

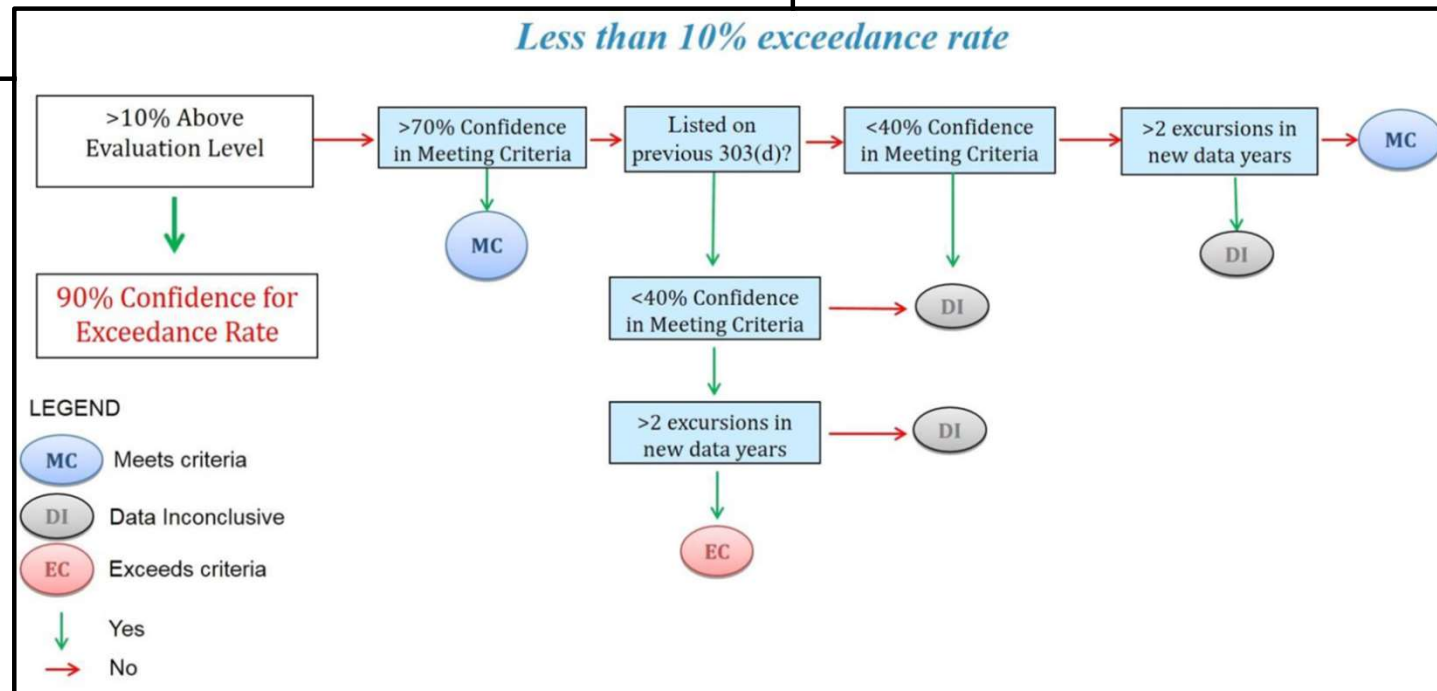
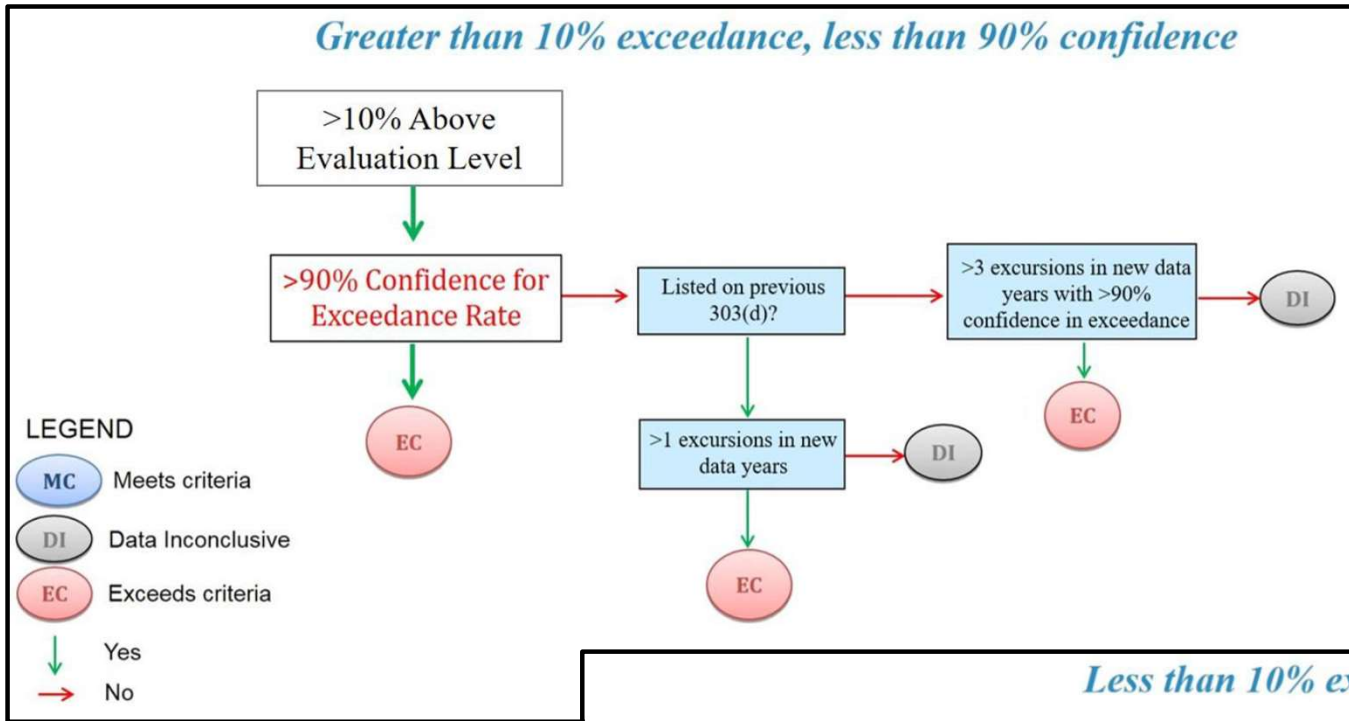
NC General Statute 143B-282(c)

- EMC has responsibility to identify impaired waters and priorities (i.e. not DWR)
- practically speaking EMC approves methods for 303(d) listings

305(b) Integrated Report informs status water quality conditions



2022 303(d) Methodology



2022 303d Methodology

“Simplified” Version (inconclusive ignored)

If exceedance rate >10% cannot be attaining standard

To be considered attaining the water quality standard

- exceedance rate is $\leq 10\%$ and $>70\%$ confidence meeting **or**
- exceedance rate is $\leq 10\%$ and $\geq 40\%$ confidence and ≤ 2 excursions in 2019-2020

To be considered exceeding the water quality standard

- exceedance rate is $>10\%$ with 90% confidence **or**
- exceedance rate is $>10\%$ and 2019-2020 data > 3 excursions with 90% confidence exceeding **or**
- exceedance rate is $> 10\%$ and on previous 303(d) and > 1 excursion in 2019-2020 **or or**
- exceedance rate is $<10\%$ but on previous 303(d) and $<40\%$ confidence meeting and > 2 excursions in 2019-2020

DWR Draft 2022 303(d) **New** Listings

Neuse River Basin below Falls Lake

Three for benthic macroinvertebrates
Six for pH levels below a pH 6
One for low dissolved oxygen

- Crabtree Creek (Crabtree Lake) Benthic Macroinvertebrates
- Marks Creek (Lake Myra) Near Knightdale NC Benthic Macroinvertebrates
- Mill Creek (Moorewood Pond) Near Erwin NC pH (6)
- Hannah Creek Dissolved Oxygen (4 mg/l), pH (6)
- Falling Creek pH (6)
- Little River (Tarpleys Pond) pH (6)
- Buffalo Creek (Wendell Lake) pH (6)
- Walnut Creek (Lake Wackena, Spring Lake) pH (6)
- Little Creek (East Side) Benthic Macroinvertebrates

Potential Comments to Consider Legacy Total Metals

- The Neuse Estuary is 303(d) listed for selected total metals
- New water quality metals standards adopted based on “dissolved metals”.
- Most often monitoring results in 303(d) delisting of legacy decisions

Comment to consider-

DWR should prioritize monitoring resources to evaluate new metals standards to resolve these legacy 303(d) listings.

Potential Comments to Consider TMDL's and Strategies

- The Neuse Estuary has a TMDL – to Reduce the Nitrogen Load
- Integrated Report – Typically if standard not attained- Category 4
- 2022 DWR Integrated Report – Lists most of the Neuse Estuary as Total Nitrogen Category 4t Exceeding Criteria

- Comment to consider- TMDL's and Management Strategy
Provide a narrative summary of the attainment or non-attainment of TMDL's and other Management Strategies in a narrative form that better informs of the progress or lack of progress including an assessment of the goals attained or not attained

Potential Comments to Consider

Data Tiers

TIER 1 - Education, Environmental Health Screening

TIER 2 – Basin Planning, Research, Effectiveness Monitoring,
Targeting of Management Actions

TIER 3 - Regulatory Assessments of Water Quality Standards Attainment
Tier 3 requires QAPP and Certified Lab

- DWR Fact Sheets include a Data Tier Column but mostly Blank
- ModMon Data now in Tier 2
- Confusing if DWR Used ModMon Data for Assessment or not
- **No Indication of DWR Director or EMC Approval or how implemented**

Comment to consider-

DWR "Water Quality Data Tiers " document should be revised and explicitly indicate that Coalitions with MOA's are included in Tier 3. And UNC ModMon Program should be considered for a Tier 3 Exception.

Potential Comments to Consider

Technical Corrections – focused on chlorophyll-a

- DWR Fact Sheets sometimes provide no indication of the data considered for chlorophyll-a and nitrogen assessments.
- Confusing on who generated data because ModMon station numbers have been changed.
- 27-(96)b1c NEUSE RIVER Estuary Potential Error 2022 IR Chlorophyll-a Category 1 Meeting Criteria, Review suggests Category 3i Data Inconclusive.
- 27-(96)b2 NEUSE RIVER Estuary Potential Error 2022 IR Chlorophyll-a Category 4i Data Inconclusive. Review suggests Category 3i Data Inconclusive.
- 27-(118)a2a NEUSE RIVER Estuary Potential Error 2022 draft reports Category 3i Exceeding Criteria, Review Suggests Category 1i Meeting Criteria.
- 27-(118)f NEUSE RIVER Estuary Potential Error 2022 draft reports chlorophyll-a Category 4t exceeding criteria, Review Suggests Category 3i data inconclusive.