

# The NC Nutrient Criteria Development Plan Update Meeting

September 25, 2013

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North Carolina Division of Water Resources



# Agenda

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- Purpose & Background
- Comment Summary
- Revisions
- Schedule
- Questions
- Next Steps

# Purpose of this meeting

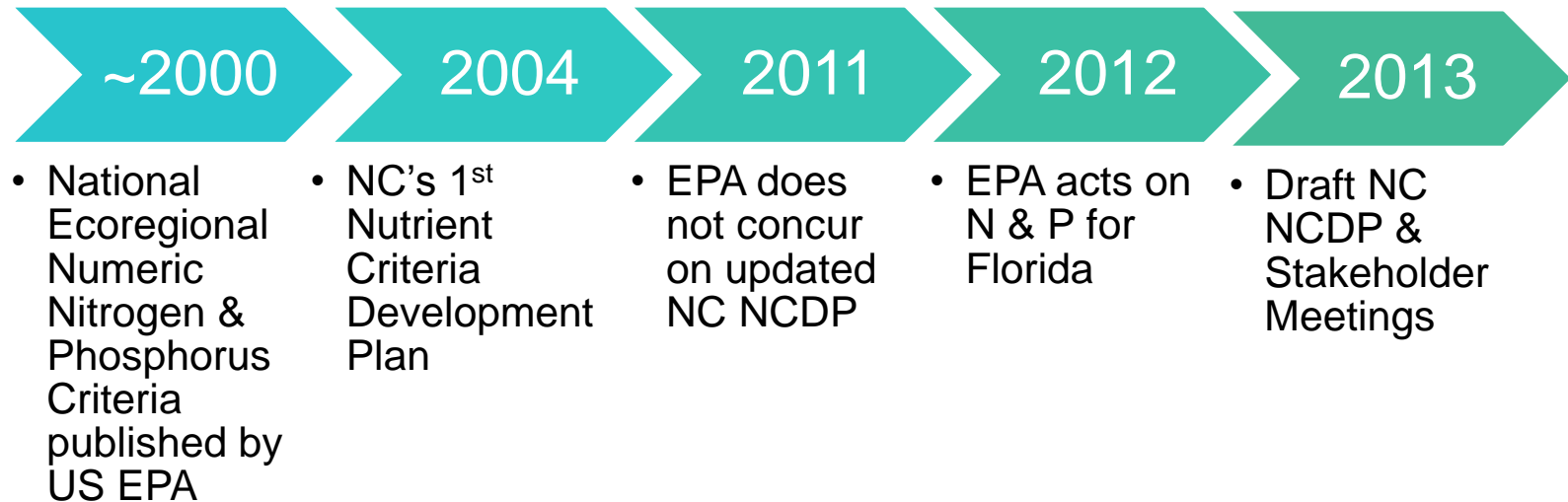
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- Clarify
  - Plan Design & Contents
  - Stakeholder Participation
  - Comments and Actions
  - TN & TP criteria development

# Background:

## Nutrients, EPA & NC

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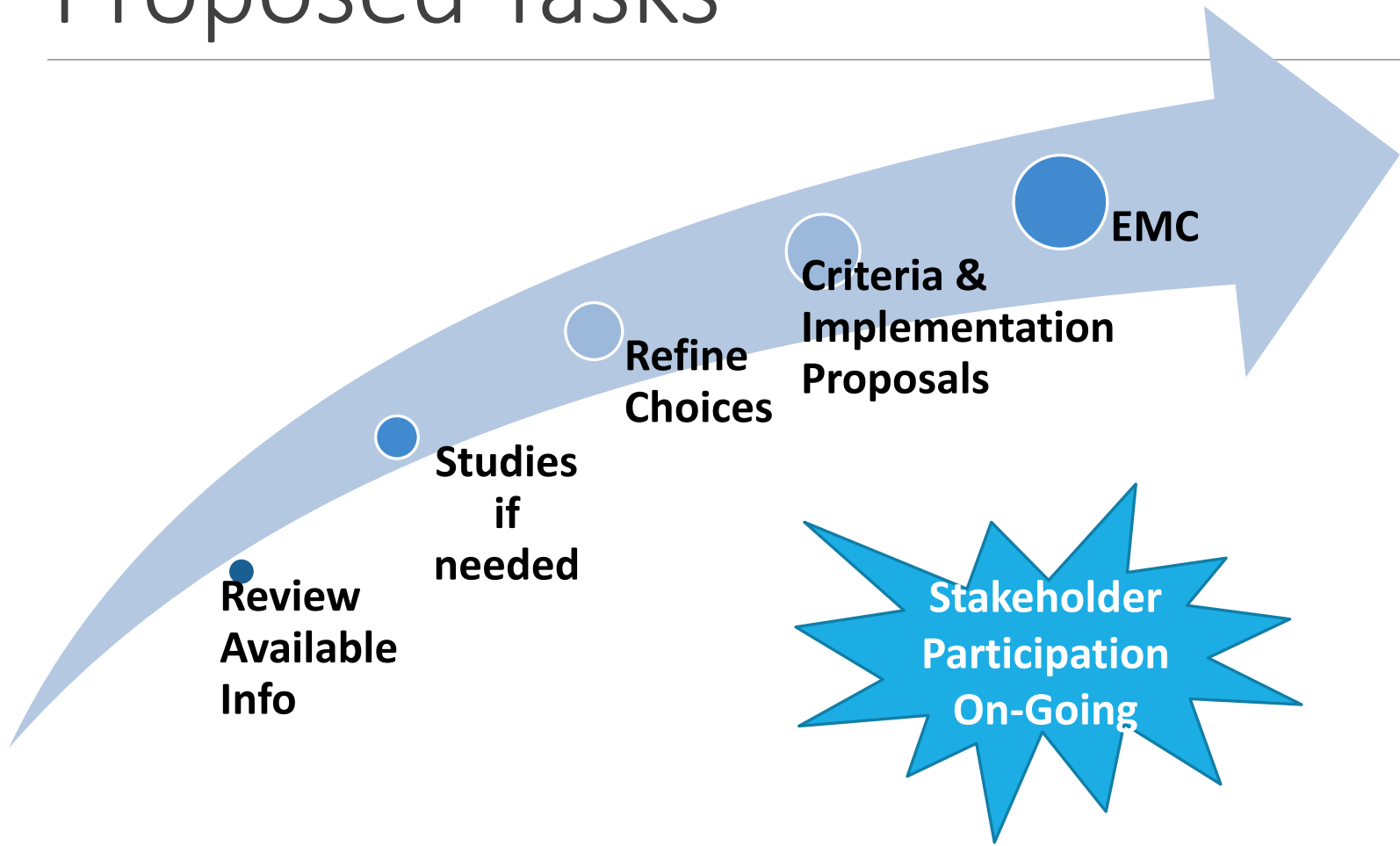
# NCDP: The Backbone

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- Evaluation of current criteria
  - Chlorophyll a, dissolved oxygen, pH
- Waterbody Approaches
  - Rivers & Streams, Water Supplies, Sounds
- Response + Causal + Bioconfirmation
- EPA – N & P at some point, somewhere

# Proposed Tasks

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# Guided by NC Forum on Nutrient Over-Enrichment

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- Site-specific & waterbody type- specific approaches
- Scientific, balanced, & fair
- Stakeholders
- Goals & targets
- Proactive & integrative
- Improve NC's current approach



# Task 1 - Review Available Info

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- Literature
- Other States
- EPA
- Available Data
- Broad Scale

What kind of stakeholder participation?

# Task 2 - Studies

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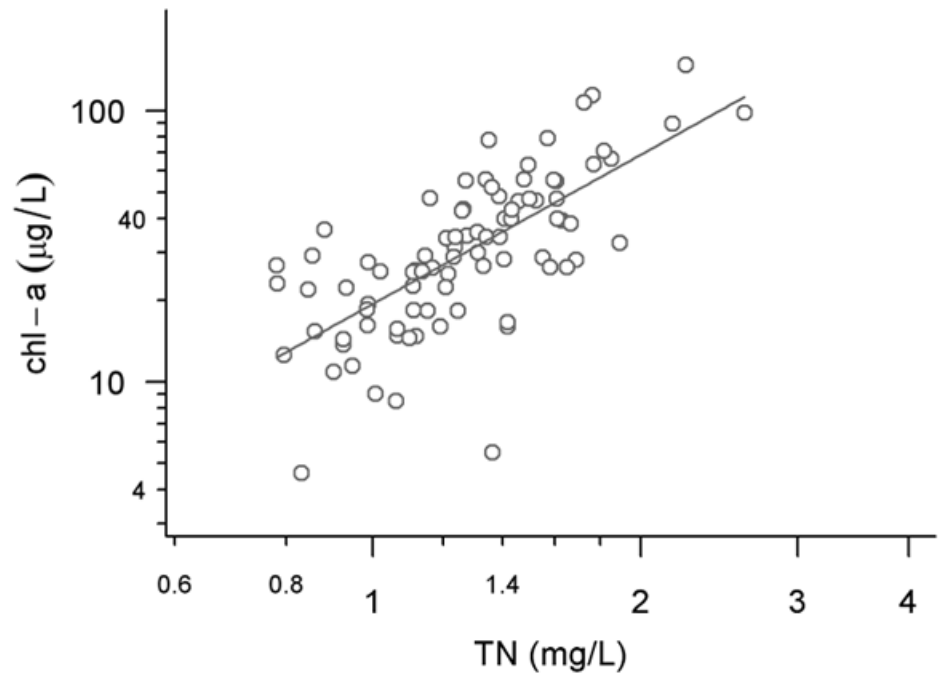
- Data gaps
- Focus in on particular watertypes
- Funding



# Task 3 – Refine Choices

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- Geographic scale
- Parameters
- Impacts to uses
- Protection of uses



Source: [EPA-820-S-10-001](#), Nov. 2010. Using Stressor-response Relationships to Derive Numeric Nutrient Criteria. Figure 4-1, page 34.

# Task 4 – Develop Criteria

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- Parameters
- Magnitude, duration, frequency
- Rule language
- Implementation plans
- Fiscal analyses



# EMC & Rulemaking

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# Comments Summary

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- Stakeholder Involvement
- Criteria for Estuaries
- Strength of science and data availability
- Preference for Response vs Causal
- Schedule/timeline
- Cost & Benefits
- Implementation issues

# Comments Summary

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- Legislative mandates
- Clarify impact on existing strategies
- Re-evaluate lakes & reservoirs
- Site specific development
- More monitoring

# Revisions

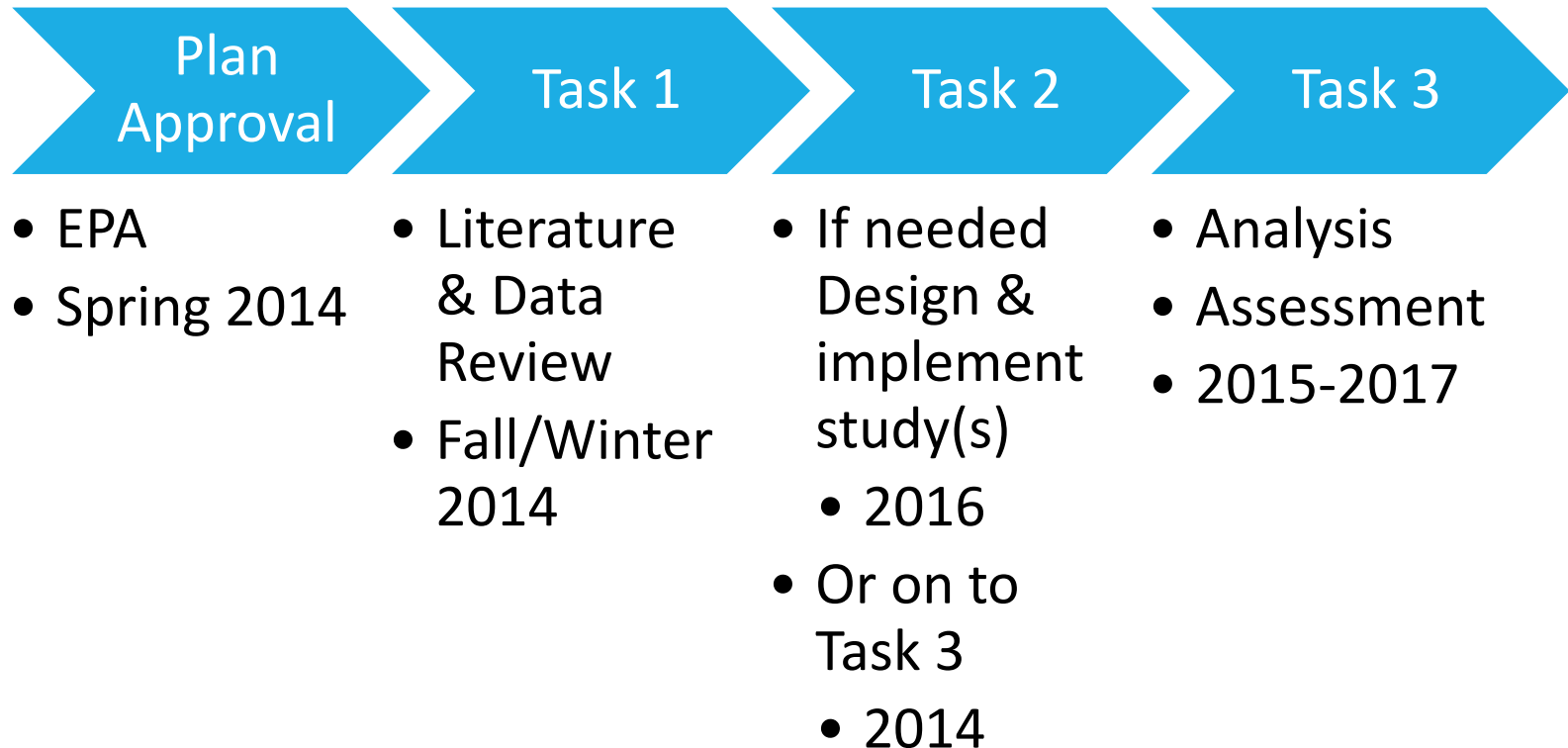
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- Removed Appendix B – summary of previous comments
- Commitment to:
  - Literature Review Document
  - Data Review Document
- Estuary criteria review



# Schedule

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# Schedule

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- Development
  - Parameters
  - Watertypes
  - Uses
  - Implementation
  - Fiscal Analyses
- 2016, 2017, or 2018

- Review
- Approval
- 2017, 2018, or 2019

- Approval
- 2018, 2019, or 2020

# Questions & Comments

North Carolina Division of Water Resources



# Next Steps

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- Update current draft
- Update to EMC in ~~November~~ or January
- Send to EPA for approval
- Organize for starting plan tasks

Thank you!

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