Wastewater Discharge Requirements

Title 15A NCAC 02B .0270
Session Law 2009-216 (HB 239)

Point Source Nutrient Strategy

- System of nutrient allocations
- Nutrient limits
- Opportunities for trading, offsets, etc.
- Start-up requirements
- Implementation timeline

Nutrient Allocations

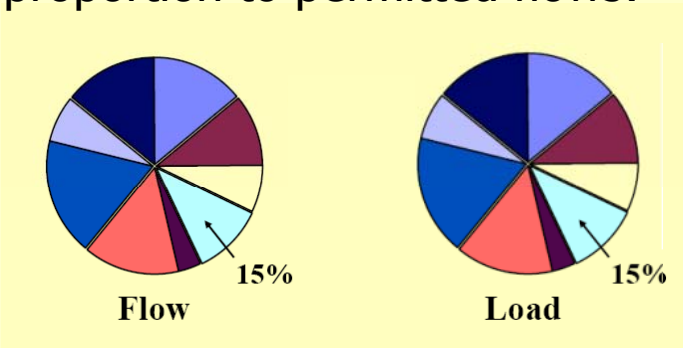
- Assigned to existing dischargers
  - TN & TP
  - Annual mass loads (Jan 1 – Dec 31)
  - Discharge & delivered values

Wasteload Allocations (WLAs)

Subwatersheds/ Discharger Groups	Delivered Allocations (lb/yr) Total Nitrogen	Total Phosphorus
Upper New Hope Arm	**336,080**	**23,106**
Q ≥ 0.1 MGD	332,467	22,498
Q < 0.1 MGD	3,613	608
Lower New Hope Arm	**6,836**	**498**
Q ≥ 0.1 MGD	6,836	498
Q < 0.1 MGD	0	0
Haw River Arm	**895,127**	**106,000**
Q ≥ 0.1 MGD	881,757	104,004
Q < 0.1 MGD	13,370	1,996

Wasteload Allocations (WLAs)

Individual allocations are in proportion to permitted flows:



Wasteload Allocations (WLAs)

- Equivalent Concentrations
  - All minors (31): 12.0 mg/L TN 2.0 mg/L TP
  - UNH majors (4): 3.04 mg/L TN 0.23 mg/L TP
  - LNH major (1): 5.35 mg/L TN 0.37 mg/L TP
  - Haw majors (9): 5.29 mg/L TN 0.66 mg/L TP
  - <u>These are not limits</u>

Wasteload Allocations (WLAs)

See handouts for individual allocations

Nutrient Limits

- Existing WWTPs $\geq$ 0.1 MGD
  - Limits = Discharge allocations
  - TP: CY2010 TN: CY2016
- No limits for existing < 0.1 MGD
  - Allocations only – for now
- New or Expanding
  - Limits = Discharge allocations

Nutrient Allocations

- No reserve for new or expanding
  - Must acquire allocation or offset:
    - Other discharger, same subwatershed
    - Private mitigation banker or EEP
    - Better treatment technology
    - Reuse/ nondischarge options
  - Limits at start-up

Allocation Management

- Trading
  - Transfer of 'delivered' allocation
  - Direct PS-PS
  - Indirect NPS-PS (mitigation bankers, EEP)
  - Confined to same subwatershed
  - Cannot result in "hot spots"

Allocation Management

- Group Compliance Option
  - Voluntary
  - Members combine allocations, meet aggregate TN, TP limits
  - Flexible means to reach nutrient target
  - Group NPDES permit
  - Confined to same subwatershed

Allocation Management

- Regionalization
  - Transfer of allocations upon connection

Process Optimization

- Nitrogen reductions prior to upgrades
  - Initial assessment and proposal
  - Implementation
  - Annual progress reports

PS Implementation Timeline

- DWQ notification – Sep 2009
- Permit modifications – Fall 2009
- TP limits – CY2010
- Optimization report – 2/13/2010
- Opt'n implementation – 8/13/2010
- Opt'n annual reports – 8/13/2011+
- TN limits – CY2016

For more information:

North Carolina Division of Water Quality
http://h2o.enr.state.nc.us/
or http://www.ncwaterquality.org/

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