

# DEQ Local Stormwater & Buffer Programs

Water Quality Committee

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## Nutrient Management Strategy Programs

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# NMS Stormwater Watersheds



# Nutrient Management Strategies

## Stormwater Management

Manage **nutrient load (nitrogen & phosphorus)** in stormwater runoff from developed areas.



- Watershed-based nutrient export targets
- New development: post-construction site nutrient accounting; treatment and offsets
- Existing development: Stormwater retrofits or other load-reducing actions

# Nutrient Management Strategies (NMS)

## Stormwater Management

### New Development Stormwater Communities

Neuse	15 (ca 1998) → 30 (ca 2020)
Tar-Pamlico	11 (ca 2001) → 12 (ca 2020)
Falls Lake	15 (all)
Jordan Lake	33 (all)

### Existing Development Stormwater Communities

Jordan Lake	33 (all)
Falls Lake	15 (all)



# Local Government Responsibilities

## New Development Stormwater (NMS)

### New Development Requirements:

- Stormwater nutrient management ordinance
- Review development projects for compliance
- Development site nutrient export calculations
- Ensure maintenance of Stormwater Control Measures

### Supporting Activities:

- Illicit Discharge & Detection Program
- Map stormdrain system
- Public Education and Outreach
- Recordkeeping and reporting



# Local Government Responsibilities

## Existing Development Stormwater (NMS)

### Jordan Lake & Falls Lake:

- Identify potential stormwater retrofit projects

### Falls Lake only:

- Reduce loads from discharging sand filters / malfunctioning septic
- Model Program approved by EMC Jan 2021
- Develop Local Programs:
  - Estimate nutrient load increases, develop offset plans
  - Implementation schedule, accounting methods, ID funding, ID potential load reductions
- Local Programs submitted July 2021, under review
- Local Programs → EMC in 2022



# NMS Program Evaluation

- All have a requirement for DWR review of local implementation program, with final approval by EMC
- Annual reports describing progress of implementation



# NMS Guidance Documents



## All watersheds:

- Nutrient calculator – Stormwater Nitrogen and Phosphorus Tool (ver4.1 approved October 2018) (to be revised Summer 2022)
- SNAP User’s Manual
- Online: <https://deq.nc.gov/about/divisions/water-resources/water-planning/nonpoint-source-planning/nutrient-practices-and-crediting>

## Neuse and Tar-Pamlico:

- Model Program, approved March 2021, comprised of:
  - Local Program Development Guide
  - Model Stormwater Ordinance
  - Model Stormwater Management Template
- (access through Neuse or Tar-Pamlico webpage)



# NMS Guidance Documents

(continued)



## Falls Lake:

- New Development Model Program, Model Ordinance approved by EMC March 2011
- Existing Development Model Program, approved by EMC Jan 2021
- Online: <https://deq.nc.gov/about/divisions/water-resources/water-planning/nonpoint-source-planning/falls-lake-nutrient-strategy#implementation-information>
- NC Catalog of Nutrient Reduction Practices, effective Jan 2021
- Online: <https://deq.nc.gov/about/divisions/water-resources/water-planning/nonpoint-source-planning/nutrient-practices-and-crediting>

## Jordan Lake:

- Existing Development Program Guidance, approved Nov 2009, revised 2017



# NMS Webpages and Contacts



## Neuse and Tar-Pamlico Nutrient Strategies

- Trish D'Arconte ([trish.darconte@ncdenr.gov](mailto:trish.darconte@ncdenr.gov))
- <https://deq.nc.gov/nps> → Neuse Nutrient Strategy
- <https://deq.nc.gov/nps> → Tar-Pamlico Nutrient Strategy

## Falls Lake Nutrient Strategy

- John Huisman ([john.huisman@ncdenr.gov](mailto:john.huisman@ncdenr.gov))
- <https://deq.nc.gov/nps> → Falls Lake Nutrient Strategy

## Jordan Lake Nutrient Strategy

- Patrick Beggs ([patrick.beggs@ncdenr.gov](mailto:patrick.beggs@ncdenr.gov))
- <https://deq.nc.gov/nps> → Jordan Lake Nutrient Strategy

