

Annual Report

Term V, Year 1:
July 1, 2022 – June 30, 2023



For Submittal to:
NC Department of Environmental Quality
Division of Energy, Mineral, and Land Resources

Submitted by:
NC Department of Transportation
NPDES Permit No. NCS000250

August 31, 2023

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Recommended for approval:

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Date

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

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J. E. Boyette

08/31/2023

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Secretary
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This report was prepared and submitted to be compliant with North Carolina Department of Transportation's (NCDOT's) National Pollutant Discharge Elimination System (NPDES) stormwater discharge permit (NCS000250) requirement under Part 4.2 of the permit issued May 1, 2022 (Term V permit). This Annual Report includes an assessment of the activities performed under the permit for the fiscal year (July 1, 2022 – June 30, 2023). This period is also referred to herein as Term V Permit Year 1 (or PY1).

This Annual Report follows a new format that mimics the general guidance provided by North Carolina Department of the Environment Quality (NCDEQ) and includes appropriate information to accurately describe the progress, status, and results of the Department's permitted programs. This Annual Report includes specific annual reporting metrics identified in NCDOT's Transportation Separate Storm Sewer System - Stormwater Management Plan (TS4SMP) which was submitted to NCDEQ on July 29, 2022. Additionally, the report assesses the Department's compliance with the permit, provides information on the establishment of appropriate legal authorities, inspections, and enforcement actions where applicable, and includes specific annual reporting metrics identified in NCDOT's TS4SMP for each permitted program area. The TS4SMP effectively serves as NCDOT's five-year business plan outlining the major activities to be performed to comply with the permit along with annual reporting metrics. It is the intent of NCDEQ that the reporting metrics contained in this Annual Report serve as the basis of future annual reports. Hence, this Annual Report contains a brief introduction which is then followed by the detailed TS4SMP tabular summary of the Department's Highway Stormwater Program best management practices (BMPs), measurable goals, schedule for implementation, and reporting metrics for this permit year, as well as anticipated/ planned program activities for the next four years. NCDOT's self-assessment for PY1 indicates that the Department was in compliance with the requirements of the TS4SMP.

Highway Stormwater Program staff have integrated the new permit changes into the Department's various permit compliance programs during this permit term. As anticipated, most programs have remained substantially similar to existing programs. However, several permit programs will require significant changes over the course of this five-year permit term. These are detailed in Section 2 of this report.

The NPDES permit authorizes NCDOT to discharge stormwater runoff from general roadways including weigh stations and tolling facilities, construction activities disturbing greater than one acre, borrow pits/waste piles, industrial facilities, office buildings, rest areas, and NCDOT-owned railways. Activities conducted by the North Carolina Turnpike Authority and I-77 Mobility Partners are also covered under this permit. The I-77 Mobility Partners Stormwater Management Program Report is included in Appendix A of this report.

Select Accomplishments for Term V Permit Year 1 (July 1, 2022 – June 30, 2023)

Below are a list of programs required by the permit and a few examples of accomplishments achieved during this permit year:

- **Public Education and Outreach Program** – The permit requires NCDOT to provide educational materials to the traveling public concerning the impacts of stormwater discharges on surface waters and how the public can reduce pollutants in stormwater runoff. In this permit year, NCDOT continued to provide educational materials at Rest Areas/Welcome Centers, Ferry Terminals, and other locations for the traveling public as well as by making anti-litter messaging materials for the public including school-aged children available on NCDOT’s website, via social media platforms, and various in-person outreach efforts. Examples of such outreach efforts included classroom instruction to elementary school students at Hilburn Academy and participation in the Our Creeks, Our Communities festival celebrating the Walnut Creek Watershed Urban Waters Federal Partnership.
- **Public Involvement and Participation Program** – NCDOT continued to maintain reporting mechanisms for the public to provide input on stormwater issues during project-specific public meetings, or through NCDOT’s website for reporting littering, illicit discharges, or illegal dumping observations. NCDOT also continued to provide volunteer opportunities to support its anti-litter campaign with its Adopt-A-Highway program, Swat-A-Litterbug, and the biannual Litter Sweep program.
- **Illicit Discharge Detection and Elimination Program** – NCDOT has established procedures for reporting illicit discharges and illegal dumping activities along NCDOT rights-of-way. In this permit year, NCDOT continues to provide training on identifying and reporting illicit discharges and illegal dumping and reporting them to NCDEQ or other appropriate local government agencies for enforcement.
- **TS4 Mapping Program** – New for the Term V permit is a requirement to map the components of the Department’s drainage system in select areas of the state. The required components to be mapped include pipes, catch basins, open channels, outfalls, and flow direction. Mapping is required in the Phase I municipalities which include: Charlotte, Winston-Salem, Greensboro, Durham, Raleigh, and Fayetteville/Cumberland Co area. During this permit year, NCDOT began coordination with consultant partners to initiate the development of a five-year compliance plan. The plan will be initiated in phases and in partnership with the aforementioned municipalities to minimize duplicative data collection.
- **Construction Site Runoff Control Program** – NCDOT continues to operate under its delegated authority granted by the NC Sedimentation Control Committee. NCDOT’s Construction Program continues to review and approve erosion & sediment control (ESC) plans, implement, and maintain standard specifications and project special provisions, provide guidance on ESC/stormwater issues, perform inspections and monitoring of construction projects, maintain NCDOT’s reclamation process, and provide ESC/stormwater training materials to contractors/ consultants. The following inspections were performed by REU Field Operations staff in calendar year 2022 for each category of land disturbing activity: 3,396 contract construction projects, 132 maintenance projects, 9 vertical construction projects, 331 bridge maintenance projects, and 90 resurfacing/ shoulder

reconstruction projects. During this permit year, NCDEQ initiated its reoccurring annual review of the program with approval of continued program delegation anticipated in permit year 2.

- **Post-Construction Controls**

- **BMP Retrofit Program** – NCDOT maintains its Retrofit Opportunity Site Selection (ROSS) database of potential stormwater retrofit locations which is integrated within the Department’s ArcGIS Online portal. In this permit year, NCDOT performed field screenings of 38 sites and found that 23 of these sites were potentially feasible for retrofit. Additionally, program representatives have partnered with several local governments in Wake County to identify potential retrofit locations in compliance with the Complete 540 settlement agreement item #6.
- **BMP Toolbox** – In this permit year, NCDOT continued work on a major update to the Department’s Stormwater Best Management Practices Toolbox design manual. Following NCDEQ approval of the updated BMP Toolbox, the manual will be released for use by the Department and its consulting partners for project development and permit compliance.
- **Post-Construction Stormwater Program** – The Department continues to implement the stormwater treatment requirements outlined in the Post-Construction Stormwater Program (PCSP) which was updated last year and approved by NCDEQ. The PCSP integrates state and federal stormwater requirements into a single document thereby serving as a convenient resource for design teams.

- **Pollution Prevention and Good Housekeeping Programs**

- **Facilities Operation and Maintenance Program** – NCDOT continues to implement and maintain site-specific Stormwater Pollution Prevention Plans (SPPPs) at 204 non-roadway facilities. NCDOT staff conducted 17 internal site reviews, provided online and in-person training to Division staff and contractors, and continued to assist Divisions with SPPP implementation.
- **Spill Response Program** The permit requires NCDOT to maintain and implement spill response procedures for its non-roadway facilities. In this permit term, NCDOT continued to implement its spill prevention and response program and to provide annual spill response training at its non-roadway facilities. NCDOT continued to maintain its site-specific Spill Prevention Control and Countermeasure (SPCC) Plans which are integrated into its SPPPs for its maintenance facilities with bulk oil storage.
- **TS4 Operation and Maintenance Program** – The permit requires NCDOT to develop and implement a TS4 operations & maintenance (O&M) program designed to reduce the discharge of pollutants including particulates, sediment, litter, and debris from the

stormwater conveyance system. In addition to performing inspections and maintenance of the TS4 during normal operations, NCDOT also performed significant litter and debris removal activities (see Litter Management) and road sweeping activities. In this permit year, NCDOT Divisions 1-7 and 9-14 performed road sweeping operations where 12,753 lane miles were swept in selected areas. The Department is required to identify high-priority areas for implementation of BMPs to reduce pollutants, so documentation by Divisions of TS4 O&M will continue to be important in maintaining permit compliance.

- **Stormwater Control Measure (SCM) Inspection and Maintenance Program** – In this permit year, NCDOT continued to implement its SCM inspection and maintenance program. This includes Roadside Environmental Unit staff coordinating with consultants and Division staff in performing SCM inspections, preparing repair and rehab scopes of work and cost estimate bid packets for SCMs that were not functioning as intended, and providing training to Division staff. Division Roadside Environmental staff coordinated with contractors and other Division staff to complete the non-routine SCM repairs. Additionally, the SCM I&M Manual was updated during this permit year.
- **Vegetation Management Program** – Central Roadside continued to coordinate and hold vegetation management training sessions for Division staff. Throughout the permit year, Division staff attended various other trainings that offered pesticide recertification credits. Central Roadside also provided NCDA&CS-approved pesticide recertification training, including discussions of pesticide recertification requirements, applications, methods, aquatic subcategory, pesticide handling, and compliance with NPDES pesticide storage facilities.
- **Vehicle and Equipment Maintenance Program** – NCDOT maintains a well-established vehicle and equipment preventative maintenance (PM) program for its fleet, which includes routine PM inspections and service of the Department’s facilities, vehicles, and equipment. Repairs are performed as needed. NCDOT performs the PM inspections and maintenance based on specific frequencies and schedules for each vehicle/equipment to maintain them in good operating condition and to prevent and minimize vehicle/equipment leaks and drips to the ground surface. NCDOT HSP staff performed an internal review of NCDOT’s PM program during this permit year to document any recent changes or updates to NCDOT’s PM program.
- **Litter Management Program** – NCDOT continues its litter pickup activities including Adopt-A-Highway, Sponsor-A-Highway, Contract Litter Removal, Litter Sweep, and Swat-A-Litterbug programs. The Department documents the efforts of its partners, volunteers, and internal staff on litter collection. The new Term V permit requires some new actions such as litter inspections, identification of litter hotspots, and implementation of BMPs to prevent the discharge of litter at hotspots. In CY 2022, NCDOT and our partner organizations picked up over 11.5 million pounds of litter.

- **Fecal Coliform Reduction Program** – The permit requires NCDOT to take specific actions at its non-roadway facilities including connecting on-site wastewater systems to publicly owned treatment works where feasible, stormwater pollution prevention training of wastewater facility operators, and maintaining pet waste stations. NCDOT continued to maintain 255 Pet Waste Stations at its Rest Areas/Welcome Centers and Ferry Terminals. Central Roadside continued to operate and maintain its on-site domestic wastewater treatment systems at two Rest Areas in accordance with the manufacturer’s and State guidance. Septic systems located at other NCDOT non-roadway facilities continue to be maintained and evaluated for connections to public systems.
- **TMDL Program** – The Term V permit provides greater flexibility for how NCDOT complies with EPA-approved total maximum daily loads (TMDLs) but greatly expands the number of TMDL waters NCDOT must respond to by encompassing all TMDLs developed in North Carolina, regardless of whether the TMDL identifies NCDOT as a significant contributor of the pollutant of concern and assigns a unique wasteload allocation to the Department.
- **Research Program** – NCDOT continued managing multiple ongoing stormwater-related research projects. NCDOT neared completion of two reports this permit term: RP 2019-07 *Evaluation and Optimization of Engineered Media Amendments for Containment Removal in Stormwater runoff infiltration* and RP 2019-02 *Protocol for Outlet Analysis at Highway Sites*.

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Appendix

Appendix A I-77 Mobility Partners Stormwater Management Program Report

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AAH	Adopt-A-Highway
ADT	Average Daily Traffic
AGOL	ArcGIS Online
ATLAS	Advancing Transportation through Linkages Automation and Screening
BMP	Best Management Practice
EAU	Environmental Analysis Unit
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
ERCON	Erosion Control REU Field Operations Database Application
ESC	Erosion and Sediment Control
ESM	Environmental Sensitivity Map
GH&PP	Good Housekeeping & Pollution Prevention
GIS	Geospatial Information System
Go!NC	NCDOT's Web Mapping Portal
GREEN	Guided Reduction of Excess Environmental Nutrients
HSP	Highway Stormwater Program
HU	Hydraulics Unit
I&M	Inspection and Maintenance
IDDEP	Illicit Discharge Detection and Elimination Program
IRMA	Industrial Roadway Maintenance Activities
JLOW	Jordan Lake One Water
LID	Low Impact Development
LM	Litter Management
LMS	Learning Management System
LOS	Level of Service
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
NA	Not Applicable
NBSS	Nature-based Stormwater Solutions
NC	North Carolina
NCAC	North Carolina Administration Code
NCDA&CS	North Carolina Department of Agriculture & Customer Services
NCDEQ	North Carolina Department of Environmental Quality
NCDOT	North Carolina Department of Transportation
NCDOT-JLSLAT	NCDOT Jordan Lake Stormwater Nutrient Loading Accounting Tool
NCDWR	North Carolina Department of Water Resources
NCSU	North Carolina State University
NCTA	North Carolina Turnpike Authority
NPDES	National Pollutant Discharge Elimination System
O&M	Operations and Maintenance
PCSP	Post Construction Stormwater Program

PM	Preventative Maintenance
POTW	Publicly Owned Treatment Works
PY	Permit Year
R&D	Research & Development
REU	Roadside Environmental Unit
ROSS	Retrofit Opportunity Site Selection
ROW	Right of Way
RP	Research Project
SAH	Sponsor-A-Highway
SAP	Systems Applications and Products
SCM	Stormwater Control Measure
SCMS	Stormwater Control Management System
SOP	Standard Operating Procedure
SP	SharePoint
SPCA	Sedimentation Pollution Control Act
SPCC	Spill Prevention Control and Countermeasure
SPPP	Stormwater Pollution Prevention Plan
SPR	Spill Prevention and Response
STIP	State Transportation Improvement Projects
TMDL	Total Maximum Daily Load
TS4	Transportation Separate Storm Sewer System
TS4SMP	Transportation Separate Storm Sewer System Stormwater Management Plan
USEPA	United States Environmental Protection Agency
VM	Vegetation Management
WLA	Waste Load Allocation

1.0 Introduction

Purpose

This Annual Report was prepared and submitted to be compliant with North Carolina Department of Transportation's (NCDOT's) statewide National Pollutant Discharge Elimination System (NPDES) stormwater discharge permit (NCS000250) requirement under Part 4.2 of the permit issued May 1, 2022 (Term V permit). This Annual Report includes an assessment of the various achievements and compliance activities performed under the permit for the fiscal year (July 1, 2022 – June 30, 2023). This period is also referred to herein as Term V Permit Year 1 (or PY1).

The Report follows a new format that mimics the general guidance provided by North Carolina Department of the Environment Quality (NCDEQ) and includes appropriate information to accurately describe the progress, status, and results of the Department's permitted programs. This Annual Report includes specific annual reporting metrics identified in NCDOT's Transportation Separate Storm Sewer System - Stormwater Management Plan (TS4SMP) which was submitted to NCDEQ on July 29, 2022. This Annual Report assesses the Department's compliance with our permit, provides information on the establishment of appropriate legal authorities, inspections, and enforcement actions where applicable, and includes specific annual reporting metrics identified in NCDOT's TS4SMP for each permitted program area. The TS4SMP effectively serves as NCDOT's five-year business plan outlining the major activities to be performed to comply with the permit along with annual reporting metrics. It is the intent of NCDEQ that the reporting metrics contained in this Annual Report serve as the basis of future annual reports. Hence, this Annual Report contains a brief introduction (Section 1) which is then followed by the detailed TS4SMP tabular summary (Section 2) of the Department's Highway Stormwater Program best management practices (BMPs), measurable goals, schedule for implementation, and reporting metrics for this permit year, as well as anticipated/ planned program activities for the next four years. NCDOT's self-assessment for PY1 indicated that the Department was in compliance with the requirements of the TS4SMP.

Permit Coverage

The Highway Stormwater Program (HSP) was established in 1998 to manage NCDOT's compliance with its NPDES stormwater permit. Under this NPDES permit NCDOT is authorized to discharge stormwater from NCDOT's transportation separate storm sewer system (TS4) to surface waters statewide. The Term V NPDES permit, effective through April 30, 2027, specifically authorizes NCDOT to discharge stormwater runoff from the following activities:

- General roadway including weigh stations and tolling facilities
- General railway
- Construction activities disturbing one acre or more
- Borrow pits/waste piles including mines
- Non-roadway facilities with the following TS4 operations:
 - Road and bridge maintenance
 - Vehicle and equipment maintenance

- Pesticide and fertilizer storage
- Salt and deicing chemical storage
- Traffic services
- Material storage areas
- Ferry terminals and maintenance areas
- Rail maintenance
- Rest areas
- Administrative buildings
- Non-roadway industrial activities, including:
 - NC Global TransPark (airport activities)
 - Asphalt plants owned and operated by NCDOT
 - NCDOT Mann’s Harbor State Shipyard (boat repair activities)
 - NCDOT Railcar & locomotive Maintenance Facilities (railcar repair activities)

This permit also covers the following sub-organizations:

- All similar activities of the North Carolina Turnpike Authority (NCTA), for all NCTA projects across the state.
- All similar activities of the I-77 Mobility Partners, for the I-77 corridor.

This permit does not cover the activities of the NC Ports Authority which holds separate NPDES stormwater permits.

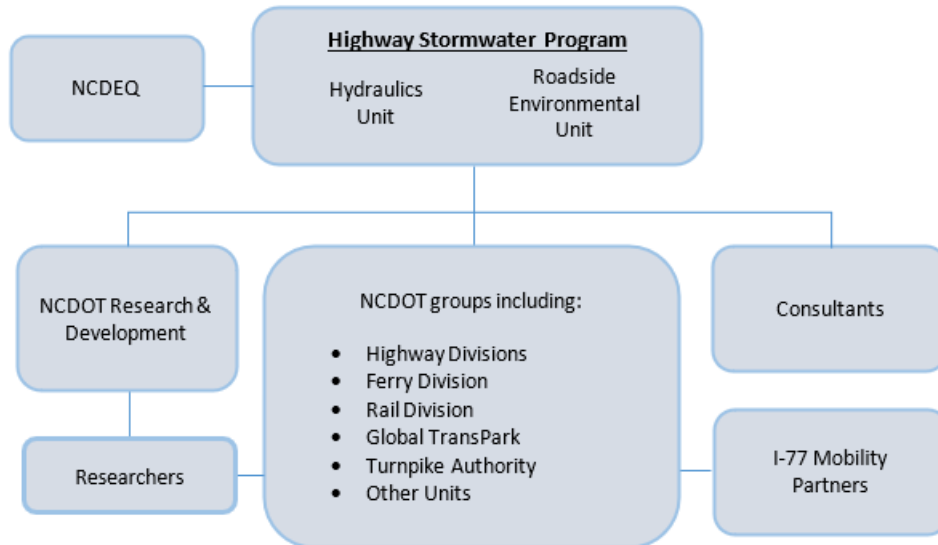
NCDOT’s TS4 is distributed across the entire state of North Carolina (NC) including within all 17 major NC River Basins. The NCDOT TS4 is interconnected with other regulated municipal separate storm sewer systems (MS4s) and directly receives and discharges stormwater from and to these systems.

Additional Non-NPDES Stormwater Regulations

The HSP also manages NCDOT’s implementation of the stormwater requirements in the Jordan and Falls Reservoir watersheds in compliance with state nutrient load reduction rules for state and federal entities. Annual reporting requirements for these two watersheds can be found in Section 3 of this report and is allowed by 15A North Carolina Administration Code (NCAC) 02B .0271 (8)(c) and 15A NCAC 02B .0281 (11)(d).

Highway Stormwater Program Organization

To implement its NPDES permit, NCDOT has organized the HSP into specific program areas to follow United States Environmental Protection Agency (USEPA) and North Carolina Department of Environmental Quality (NCDEQ) guidance and to effectively address the permit. NCDOT’s HSP is collaboratively managed by NCDOT’s Hydraulics Unit (HU) and Roadside Environmental Unit (REU) with support from others including NCDOT’s consultant partners, Division personnel, and Research & Development staff and researchers (see HSP Organization below).



Shared Compliance Responsibility

NCDOT will share the responsibility to implement its permit requirements with I-77 Mobility Partners for the specified areas of NCDOT's TS4, which are at least as stringent as the corresponding NPDES TS4 Permit requirement. NCDOT remains responsible for compliance if the other entity fails to perform the permit obligation and may be subject to enforcement action if neither NCDOT nor the other entity fully performs the permit obligation. I-77 MP is responsible for implementing specific BMPs or permit requirements. A legal agreement to share responsibility is in place.

There are no other entities applying for co-permittee status under the NPDES TS4 permit number NCS000250 for NCDOT.

2.0 Program Summaries

This section summarizes NCDOT’s TS4SMP Program Area BMPs, measurable goals, scheduled for implementation, annual reporting metrics, and related reporting comments. References below to specific permit years (PY) 1-5 are for Term V. For PY1, NCDOT’s self-assessment indicated that the Department was in compliance with the requirements of the TS4SMP.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
Program Administration BMPs							
1	Annual Administering and Compliance Monitoring Fee						
1	1.4 Pay the annual administering and compliance monitoring fee.	1. Pay within 30 (thirty) days of being billed.	1. Annually, Permit Years 1-5	1. Yes/No	1	Yes	NPDES Annual permit fee of \$3,440 (invoice number 2023PR004169, invoice date 5/2/23) for the period 2023-06-01 to 2024-05-31 was paid and received on 5/5/2023. SAP document number of 1907712528.
2	Permit Renewal Application						
2	Certify and submit a permit renewal application package.	1. Certify the stormwater permit renewal application and submit to NCDEQ at least 180 days prior to permit expiration.	1. Permit Year 5	1. Date of permit renewal application submittal	4	NA	Not applicable until Permit Year 4.
3	See approval of the TS4SMP and maintain a copy online						
3	3.1.4 Submit the TS4SMP to DEMLR within ninety (90) days of permit issuance for DEMLR review and approval. The TS4SMP is deemed approved if no response is received from the DEMLR within 90 days of receipt by the DEMLR.	1. Submit the TS4SMP to DEMLR within ninety (90) days of permit issuance.	1. Within ninety (90) days of permit issuance	1. Yes/No	4	NA	Not applicable until Permit Year 4.
3	2.1.4 Notify DEMLR in writing of any planned major modifications to the TS4SMP. DEMLR will inform the Permittee within 30 days if approval of the modified TS4SMP is required.	2. If major modifications are needed, notify DEMLR in writing.	2. If needed	2. Needed and submitted/ Needed but not submitted/ Not needed	1	Needed and submitted (with Annual Report)	Several updates to the TS4SMP have been identified throughout the course of PY1. Proposed updates will be submitted to DEMLR in PY2 concurrent with the submittal of the Annual Report for PY1.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
3	2.4.1 When specific changes to the program or TS4SMP are required by DEMLR in writing, the Permittee shall provide certification in writing to DEMLR that the changes have been made.	3. Certify that changes required in writing by DEMLR have been made.	3. If needed	3. Needed and submitted/ Needed but not submitted/ Not needed	1	Not needed	DEMLR did not provide any comments over the course of PY1 on the draft TS4SMP originally submitted on 7/29/2022.
3	2.4.2 When specific changes to the program or TS4SMP are required by DEMLR, the Permittee shall submit a plan and time schedule to DEMLR for modifying the TS4SMP to meet the requirements within 90 days.	4. Modify the TS4SMP and submit within 90 days if changes are required by DEMLR.	4. If needed	4. Needed and submitted/ Needed but not submitted/ Not needed	1	Not needed	DEMLR did not request any changes to the TS4SMP during the course of PY1.
3	2.1.6 Maintain an up-to-date version of the permit and the TS4SMP online in a manner that is accessible by DEMLR and the public.	5. Maintain an up-to-date version of the permit and TS4SMP on NCDOT's public facing website.	5. Continuously Permit Years 1-5	5. Yes/No	1	Yes	The current TS4SMP submitted to DEMLR in July 2022 and NCDOT's permit are both posted to NCDOT's HSP Connect site here: https://connect.ncdot.gov/resources/hydro/Pages/HSPPrograms.aspx
4	Develop a TS4 Stormwater Management Plan						
4	3.1.1 Include specific and measurable goals that define program elements to fully implement each of the six MCMs, TMDLs and/or Research Program requirements.	1. Include specific and measurable goals in the TS4SMP for each program.	1. Upon TS4SMP development, Permit Year 1	1. Yes/No	1	Yes	The TS4SMP was prepared with specific and measurable goals for all programs. The TS4SMP was submitted to DEMLR on 7/29/2022.
4	3.1.3 Detail the stormwater programs for five years, including funding, a narrative description of the program, specific and measurable goals for each program component, implementation schedule(s) and reporting metrics.	2. Include program details for the next five years.	2. Upon TS4SMP development, Permit Year 1	2. Yes/No	1	Yes	TS4SMP covers the 5-year permit term and includes all required information.
4	2.3.1 Clearly identify in the TS4SMP any qualifying alternative program components that will be utilized to meet specific permit requirements.	3. If needed, include qualifying alternative program components in the TS4SMP.	3. Upon TS4SMP development, Permit Year 1	3. Needed and submitted/ Needed not submitted/ Not needed	1	Needed and submitted	The TS4SMP includes a description of qualifying alternative programs such as the NCDOT delegated erosion and sediment control program.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
5	3.1.2 Maintain a list of positions responsible for implementing the permit and TS4SMP. The list shall include specific positions and a brief description of stormwater responsibilities and/or duties for each listed position.	1. Maintain a list of roles and responsibilities for staff responsible for implementing the TS4SMP and permit.	1. Continuously, Permit Years 2-5.	1. Yes/No	2	Yes	This BMP was completed ahead of schedule. NCDOT's list of roles and responsibilities for staff responsible for implementing its TS4SMP and permit are outlined in the TS4SMP (Section 4) and persons responsible for each BMP are maintained in NCDOT's SharePoint site.
6	Maintain written procedures						
6	2.2.2 The Permittee shall maintain, and make available to the Division upon request, written procedures for implementing the MCMs, permit requirements, and TS4SMP. Written procedures shall identify specific action steps, schedules, resources, and responsibilities for implementing the MCMs. Written procedures can be free-standing or, where appropriate, integrated into the TS4SMP.	1. Maintain written procedures for implementing the MCMs, permit requirements, and TS4SMP. Make available upon request.	1. Per schedules established in the TS4SMP.	1. Yes/No	1	Yes	NCDOT maintains written procedures for implementing MCMs, permit requirements and TS4SMP on various platforms including, but not limited to, its guidance manuals, policies, and procedures located on NCDOT's Connect site, NCDOT.gov site, its HSP SharePoint site, and other internal areas. Additional SOPs are under preparation. DEMLR did not request to see any protocols during the course of PY1.
7	Annual TS4SMP Review and Annual Report						
7	4.1 Perform an annual review and update of the TS4SMP.	1. Review the TS4SMP to identify compliance issues, necessary modifications, and improvements needed to maximize TS4SMP effectiveness	1. Annually Permit Years 1-5	1. Yes/No	1	Yes	Responsible, accountable, and verifier staff have reviewed the TS4SMP and compliance with the requirements as part of implementation of NCDOT's Compliance Task Tracker process. Updates to the TS4SMP have been identified and will be submitted to DEMLR concurrent with the PY1 Annual Report.
7	4.1 Perform an annual review and update of the TS4SMP.	2. Update the TS4SMP as needed to address deficiencies	2. Annually Permit Years 1-5	2. Needed and updated/ Needed, not updated/ Not needed	1	Needed and updated	Updates to the TS4SMP have been identified and will be submitted in PY2 concurrent with the PY1 annual report submittal.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
7	2.1.1 Maintain adequate funding and staffing to implement and manage the provisions of the TS4SMP and meet the requirements of this permit.	3. Assess if the program is adequately funded and staffed.	3. Annually Permit Years 1-5	3. Yes/No	1	Yes	NCDOT requires all project managers to manage and monitor monthly project/program budgets through the NC Enterprise Business Services Cost Planning Application for each active WBS element. The HSP Manager enters into the application a monthly budget for the NPDES program at the start of each fiscal year consistent with the yearly allocation in the STIP. This budget is monitored monthly in SAP and adjustments are made to the Cost Planning Application as necessary. For PY1 the NPDES budget was found to be adequate.
7	2.1.1 Maintain adequate funding and staffing to implement and manage the provisions of the TS4SMP and meet the requirements of this permit.	4. Request additional funding if needed	4. If needed	4. Needed and requested/ Needed, not requested/ Not needed	1	Not needed	Funding levels were verified on 6/22/2023 using SAP transaction ZPSR01 and were found to be adequate. No funding request is needed at this time.
7	4.2 The Permittee shall submit an annual report to DEMLR by August 31 of each year. When required, a permit renewal application may be submitted in lieu of the annual report.	5. Prepare, certify, and submit the annual report to DEMLR prior to August 31 each year. In year 5, a permit renewal application may be submitted in lieu of the annual report.	5. Annually Permit Years 1-4	5. Yes/No	1	Yes	NCDOT has prepared, certified, and submitted the Annual Report for Term V Permit Year 1 to DEMLR prior to August 31, 2023.
Public Education and Outreach Program							
8	Evaluate and Identify Target Pollutants, Likely Sources, and Associated Target Audiences						
8	3.2.1 Evaluate the target pollutants, likely sources, and associated target audiences likely to have significant stormwater impacts to the TS4 and receiving waters.	1. Evaluate identified targets to assess continued applicability.	1. Annually, Permit Years 1-5	1. Yes/No	1	Yes	NCDOT has evaluated the identified targets and they continue to be applicable. Target pollutants and sources are outlined in the TS4SMP (Section 3.7).
8	3.2.1 Evaluate the target pollutants, likely sources, and associated target audiences likely to have significant stormwater impacts to the TS4 and receiving waters.	2. Update identified targets if needed.	2. Annually, Permit Years 1-5	2. Updated/ Not Needed	1	Not Needed	Identified targets, sources, and audiences were evaluated and were found to be adequate; therefore, no updates are needed.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
9	Provide Educational Materials on Litter to School-Aged Children						
9	3.2.1 and 3.2.2 Provide educational materials that target school-aged children.	1. Make anti-litter packages available to teachers upon request.	1. Continuously, Permit Years 1-5	1. Number provided/ None were requested	1	1,500 teacher kits provided in CY2022	NCDOT continues to provide anti-litter packages available to teachers upon request. In CY 2022, NCDOT sent out for school-aged children/ teachers a total of 1,500 individual teacher kits.
9	3.2.1 and 3.2.2 Provide educational materials that target school-aged children.	2. Make anti-litter materials targeting school-aged children available on NCDOT's website.	2. Continuously, Permit Years 1-5	2. Number of unique materials	1	33 unique materials	NCDOT maintains anti-litter materials targeting school-aged children on its website. This includes 33 unique anti-litter materials on its website: https://www.ncdot.gov/initiatives-policies/students-youth/educators/Pages/default.aspx , and https://www.ncdot.gov/initiatives-policies/environmental/litter-management/Pages/resources.aspx , and https://www.ncdot.gov/initiatives-policies/environmental/litter-management/Pages/psa-resources.aspx .
10	Provide Educational Materials on Litter to Traveling Public						
10	3.2.1 and 3.2.2 Provide educational materials regarding litter to users of NCDOT transportation systems.	1. Make hardcopies of anti-litter brochures available to the public.	1. Annually, Permit Years 1-5	1. Number of hardcopy brochures printed/ Additional copies not needed	1	10,000 Litter Law Inserts printed	NCDOT makes hardcopies of anti-litter materials available to the public. In CY 2022, NCDOT LM printed 10,000 Litter Law Inserts which are then made available to the public.
10	3.2.1 and 3.2.2 Provide educational materials regarding litter to users of NCDOT transportation systems.	2. Make anti-litter messaging materials for the public available on NCDOT's website.	2. Continuously, Permit Years 1-5	2. Number of unique materials	1	56 unique materials	NCDOT maintains anti-litter messaging for the public available on its website. This includes 38 unique anti-litter materials and 18 unique stormwater pollution prevention materials (litter is a stormwater pollutant) on its website: https://www.ncdot.gov/initiatives-policies/environmental/Pages/default.aspx , and https://www.ncdot.gov/initiatives-policies/students-youth/educators/Pages/default.aspx , and https://www.ncdot.gov/initiatives-policies/environmental/litter-management/Pages/resources.aspx , and https://www.ncdot.gov/initiatives-policies/environmental/litter-management/Pages/psa-resources.aspx . Additionally, NCDOT's home page provides regular NCDOT Now videos with anti-litter messaging (e.g., Litter Sweep, Secure Your Load).

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
11	Provide general stormwater quality educational materials to Traveling Public						
11	3.2.1 and 3.2.2 Provide general stormwater quality educational materials to users of NCDOT transportation systems.	1. Make stormwater quality educational materials available that discuss the pollutants of concern listed in Table 3.5.	1. Continuously, Permit Years 1-5	1. Number of unique materials	1	281 unique materials	NCDOT maintains stormwater quality educational materials that discuss the pollutants of concern (listed in TS4SMP Table 3.5) on its website which is available to the public. This includes 18 unique stormwater education materials (e.g., activity sheets, information flyer and presentation materials, educator lesson plans, and posters. In addition to its "Environmental" and "Educator Resources" subsites available at: https://www.ncdot.gov/Pages/default.aspx , NCDOT Hydraulics Unit maintains 30 unique Highway Stormwater Program materials on its NCDOT Connect website at: https://connect.ncdot.gov/resources/hydro/Pages/Highway-Stormwater-Program.aspx , and NCDOT Roadside Environmental Unit maintains 195 unique items for Construction, Erosion & Sediment Control, and Vegetation Management at: https://connect.ncdot.gov/resources/roadside/Pages/default.aspx , for a total of 281 unique items.
11	3.2.1 and 3.2.2 Provide general stormwater quality educational materials to users of NCDOT transportation systems.	2. Develop additional or update existing educational materials to address metals, organics, and temperature.	2. Permit Year 3	2. Yes/No	3	NA	Not applicable until Permit Year 3.
12	Maintain Public Education and Outreach materials online						
12	3.2.3 Maintain educational materials online.	1. Maintain educational materials regarding stormwater, water quality, TS4 pollutants, and NCDOT stormwater projects and activities online.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	NCDOT maintains educational materials related to stormwater, water quality, TS4 pollutants, and NCDOT stormwater projects and activities on its website. Materials can be found at: https://www.ncdot.gov/Pages/default.aspx and https://connect.ncdot.gov/Pages/default.aspx .
13	Maintain and promote reporting mechanisms for the travelling public to identify and report littering, illicit discharges, illegal dumping						
13	3.2.4 and 3.4.10 Maintain and promote reporting mechanisms for the public to identify and report littering, illicit discharge, and illegal dumping.	1. Maintain reporting mechanisms through NCDOT's Contact Us Citizen Action Request (CARs) website.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	NCDOT maintains its reporting mechanisms via Contact Us - Citizen Action Request website (https://www.ncdot.gov/contact/Pages/default.aspx).

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
13	3.2.4 and 3.4.10 Maintain and promote reporting mechanisms for the public to identify and report littering, illicit discharge, and illegal dumping.	2. Maintain reporting mechanisms via telephone by maintaining contact information on NCDOT's website.	2. Continuously, Permit Years 1-5	2. Yes/No	1	Yes	NCDOT maintains its reporting mechanisms via telephone by maintaining contact information on NCDOT's website https://www.ncdot.gov/contact/Pages/default.aspx , and https://apps.ncdot.gov/dot/directory/authenticated/UnitPage.aspx .
13	3.2.4 and 3.4.10 Maintain and promote reporting mechanisms for the public to identify and report littering, illicit discharge, and illegal dumping.	3. Maintain reporting mechanisms via telephone through printed materials.	3. Continuously, Permit Years 1-5	3. Yes/No	1	Yes	NCDOT maintains its reporting mechanisms via telephone through printed materials.
13	3.2.4 and 3.4.10 Maintain and promote reporting mechanisms for the public to identify and report littering, illicit discharge, and illegal dumping.	4. Promote multiple reporting mechanisms.	4. Continuously, Permit Years 1-5	4. Yes/No	1	Yes	NCDOT continues to promote multiple reporting mechanisms for the public to identify and report littering, illicit discharge and illegal dumping.
Public Involvement and Participation Program							
14	Mechanisms for public input on stormwater issues and stormwater program						
14	3.3.1 Provide mechanisms for public input on stormwater issues and the stormwater program.	1. Provide opportunities to comment on stormwater during project-specific public meetings.	1. Continuously, Permit Years 1-5	1. Number of public meetings held	1	52 public meetings/ public hearings held	NCDOT has provided opportunities to comment on stormwater during 52 project-specific public meetings/ public hearings. Source: NCDOT Environmental Analysis Unit (EAU) - Public Involvement, Community Studies & Visualization Group Leader maintains a database of NCDOT public meetings/ public hearings.
14	3.3.1 Provide mechanisms for public input on stormwater issues and the stormwater program.	2. Maintain NCDOT's Contact Us Citizen Action Request (CARs) website.	2. Continuously, Permit Years 1-5	2. Yes/No	1	Yes	NCDOT continues to maintain Contact Us - Citizen Action Request website (https://www.ncdot.gov/contact/Pages/default.aspx).
14	3.3.1 Provide mechanisms for public input on stormwater issues and the stormwater program.	3. Maintain contact information on NCDOT's website.	3. Continuously, Permit Years 1-5	3. Yes/No	1	Yes	NCDOT continues to maintain contact information on NCDOT's website (https://www.ncdot.gov/contact/Pages/default.aspx).
14	3.3.1 Provide mechanisms for public input on stormwater issues and the stormwater program.	4. Publish the monthly CARs reports on NCDOT's website.	4. Continuously, Permit Years 1-5	4. Yes/No	1	Yes	NCDOT continues to publish the monthly CARs reports on NCDOT's website: https://www.ncdot.gov/about-us/our-mission/Performance/Pages/citizen-action-request-report.aspx

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
15	Accept interns to participate in NCDOT's Highway Stormwater Program						
15	Accept interns to participate in NCDOT's Highway Stormwater Program.	1. Accept interns as feasible to participate in NCDOT's Highway Stormwater Program.	1. Annually, Permit Years 1-5	1. Number of interns/ Reason not Feasible	1	16 interns	NCDOT maintained a College Programs & Internship program during PY1. The program specifies eligibility requirements and the application process which is through the North Carolina State Government employment website. A total of 16 interns had involvement with the Highway Stormwater Program between the Hydraulics and Roadside Environmental units. The number of interns included those employed during the summer of 2022 and 2023 within PY1.
16	Continue the Adopt-A-Highway Program						
16	3.3.2 Manage the ongoing Adopt-A-Highway Program.	1. Encourage public participation in the Adopt-A-Highway (AAH) Program.	1. Continuously, Permit Years 1-5	1. Number of groups participating in the program	1	4,842 AAH volunteer groups	NCDOT continues to encourage public participation in its AAH Program through use of its website (https://www.ncdot.gov/initiatives-policies/environmental/adoptahighway/Pages/default.aspx), public meetings and public outreach efforts, public service announcements, anti-litter campaigns, and various social media platforms. NCDOT's AAH Program has more than 120,000 participants across the state — civic and community groups, including schools, religious, professional and social organizations, as well as individuals and families.
16	3.3.2 Manage the ongoing Adopt-A-Highway Program.	2. Dispose of litter collected through the AAH Program.	2. Continuously, Permit Years 1-5	2. Quantity of litter collected	1	879,255 pounds of litter collected by AAH volunteers	NCDOT continues to maintain its AAH Program. NCDOT LM tracks AAH litter collections through use of its LM website. AAH volunteers submit their litter collections and disposal by submitting a Pickup Report for AAH using NCDOT's online reporting mechanism, which is found at: https://apps.ncdot.gov/LM/Home/Navigation?program=AAHVolunteers .

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
16	3.3.2 Manage the ongoing Adopt-A-Highway Program.	3. Continue to recognize long term AAH volunteer groups.	3. Continuously, Permit Years 1-5	3. Number of recognitions made	1	353 recognitions to AAH volunteer groups made	NCDOT continues to recognize AAH volunteer groups for their litter collection efforts. In CY 2022, NCDOT LM gave out 332 AAH awards for reaching milestones of 10, 15, 20, 25, 30 and 35 years. Additionally, NCDOT LM coordinates internally with Communications Office to recognize groups or individuals involved in litter collection. Typically, if NCDOT sees that one of our AAH group has posted about their pickup, then the Department shares that or if photos have been shared with us via email, NCDOT drafts up a note to post on our own. Most AAH groups only have a Facebook page. In CY 2022, NCDOT shared/ made 21 posts highlighting different group efforts. Several of those posts were also shared on other platforms (e.g., Twitter, Instagram). In total, NCDOT made 353 recognitions to AAH volunteer groups.
16	3.3.2 Manage the ongoing Adopt-A-Highway Program.	4. Maintain list of Litter Management Coordinators.	4. Continuously, Permit Years 1-5	4. Yes/No	1	Yes	NCDOT LM maintains a list of LM Coordinators. These local coordinators are responsible for managing anti-litter programs, such as AAH and Litter Sweep, in their assigned counties. LM Coordinators work directly with volunteers to select an available stretch of state-maintained highway and help answer questions about NCDOT's anti-litter programs. NCDOT maintains the list of LM Coordinators on its public facing website at: https://www.ncdot.gov/initiatives-policies/environmental/adoptahighway/Pages/coordinators.aspx
17	Continue the Statewide Litter Sweep Program						
17	3.3.2 Continue the Statewide Litter Sweep Program.	1. Continue public participation in litter pickup, including the biannual Litter Sweep Program.	1. Continuously, Permit Years 1-5	1. Report the number of volunteers	1	50,555 volunteers	NCDOT continues public participation in litter pickup, including the biannual Litter Sweep Program. In CY 2022, NCDOT had 50,555 volunteers (including 47,817 AAH volunteers and 2,738 Other Volunteers) participate in its Litter Sweep Program.
17	3.3.2 Continue the Statewide Litter Sweep Program.	2. Track the quantity of litter collected by volunteers.	2. Continuously, Permit Years 1-5	2. Document the quantity of litter collected	1	150,570 pounds of litter collected by AAH and Other volunteers during Litter Sweep	The litter collected by AAH and Other volunteers during Litter Sweep periods include 72,345 lbs (fall) + 78,225 lbs (spring) = 150,570 lbs (total). Note: these totals are for AAH and Other volunteers only; NCDOT normally includes ALL programs in the yearly Interagency Litter Report.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
18	Continue the Statewide Swat-A-Litterbug Program						
18	Continue the Statewide Swat-A-Litterbug Program	1. Encourage the public to report littering through the Swat-A-Litterbug Program.	1. Continuously, Permit Years 1-5	1. Number of Swat-A-Litterbug reports submitted	1	4,954 reports submitted	NCDOT continues to encourage the public to report littering through its Swat-A-Litterbug program. NCDOT LM maintains the Swat-A-Litterbug program which includes receiving reports and mailing letters to reported litterers. NCDOT LM system tracks the # reports, but not specific personal information. In CY 2022, NCDOT mailed 4,954 Swat-A-Litterbug letters out to individuals that were reported as littering.
TS4 Mapping (within the IDDE Program)							
19	Maintain a GIS-based implicit stormwater outfall inventory						
19	3.4.1 Maintain a GIS-based implicit stormwater outfall inventory which includes implicit outfalls from primary and secondary roadways.	1. Maintain a process for deriving a GIS-based implicit stormwater outfall inventory.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	NCDOT maintains a process for deriving its GIS-based implicit stormwater outfall inventory. The implicit inventory is maintained in ESM which can be accessed via NCDOT's Connect site.
19	3.4.1 Maintain a GIS-based implicit stormwater outfall inventory which includes implicit outfalls from primary and secondary roadways.	2. Implement the protocol to update the GIS-based implicit stormwater outfall inventory.	2. Annually, Permit Years 1-5	2. Yes/No	1	Yes	NCDOT implemented the protocol to update the implicit stormwater outfall inventory.
20	Maintain a Statewide Base Map of the TS4						
20	3.4.2 Develop and maintain a statewide base map of Permittee owned and operated primary routes, secondary roads, surface waters, and bridge and roadway crossings of surface waters.	1. Develop a process for deriving a GIS-based statewide base map of Permittee owned and operated primary routes, secondary roads, surface waters, and bridge and roadway crossings of surface waters.	1. Permit Year 1	1. Yes/No	1	Yes	NCDOT maintains a process for deriving GIS-based statewide mapping of Permittee owned and operated primary and secondary roads, surface waters, and bridge and roadway crossings of surface waters. Mapping is maintained and accessed via ATLAS and GO!NC.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
20	3.4.2 Develop and maintain a statewide base map of Permittee owned and operated primary routes, secondary roads, surface waters, and bridge and roadway crossings of surface waters.	2. Maintain a process for deriving a GIS-based statewide base map of Permittee owned and operated primary routes, secondary roads, surface waters, and bridge and roadway crossings of surface waters.	2. Continuously, Permit Years 2-5	2. Yes/No	2	Yes	NCDOT has already completed this BMP. NCDIT Transportation GIS Group maintains GIS standards and practices for deriving statewide base map data.
20	3.4.2 Develop and maintain a statewide base map of Permittee owned and operated primary routes, secondary roads, surface waters, and bridge and roadway crossings of surface waters.	3. Implement the process to update the GIS-based base-map.	3. Annually, Permit Years 2-5	3. Yes/No	2	Yes	NCDOT has already completed this BMP as it has an established process of regular/quarterly updates to the GIS-based base mapping. NCDOT GIS announced its second quarter update of GIS layers on 5/8/2023.
21	Develop and implement a program for mapping TS4 conveyances and outfalls on primary routes in Phase I MS4 permitted areas						
21	3.4.3 Develop and implement a program for mapping TS4 conveyances and outfalls associated with primary routes which are located within Phase I MS4 permitted areas. The program, at a minimum, shall include mapping of major outfalls, bridge outfalls discharging directly to surface waters, and associated inlets, catch basins, conveyances, and flow directions.	1. Collaborate with Phase I MS4s to aggregate existing mapped/inspected data.	1. Permit Years 1-2	1. Yes/No	1	Yes	During PY1 a scope of work has been drafted and fees estimated for AECOM and GeoDecisions to implement the project plan to comply with the mapping requirements outlined in the TS4SMP. Implementation of the scope will occur primarily in PY2 with respect to this specific measurable goal.
21	3.4.3 Develop and implement a program for mapping TS4 conveyances and outfalls associated with primary routes which are located within Phase I MS4 permitted areas. The program, at a minimum, shall include mapping of major outfalls, bridge outfalls discharging directly to surface waters, and associated inlets, catch basins, conveyances, and flow directions.	2. Develop a new geodatabase structure to include major outfalls, bridge outfalls discharging directly to surface waters, and associated inlets, catch basins, conveyances, and flow directions.	2. Permit Year 2	2. Yes/No	2	NA	Not applicable until Permit Year 2.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
21	3.4.3 Develop and implement a program for mapping TS4 conveyances and outfalls associated with primary routes which are located within Phase I MS4 permitted areas. The program, at a minimum, shall include mapping of major outfalls, bridge outfalls discharging directly to surface waters, and associated inlets, catch basins, conveyances, and flow directions.	3. Integrate Phase I MS4 aggregated data and NCDOT existing data into the geodatabase.	3. Permit Year 3	3. Yes/No	3	NA	Not applicable until Permit Year 3.
21	3.4.3 Develop and implement a program for mapping TS4 conveyances and outfalls associated with primary routes which are located within Phase I MS4 permitted areas. The program, at a minimum, shall include mapping of major outfalls, bridge outfalls discharging directly to surface waters, and associated inlets, catch basins, conveyances, and flow directions.	4. Identify gaps in the assets, attributes, and footprint of available data and prioritize areas of TS4 field mapping in Phase I MS4 areas.	4. Permit Year 3	4. Yes/No	3	NA	Not applicable until Permit Year 3.
21	3.4.3 Develop and implement a program for mapping TS4 conveyances and outfalls associated with primary routes which are located within Phase I MS4 permitted areas. The program, at a minimum, shall include mapping of major outfalls, bridge outfalls discharging directly to surface waters, and associated inlets, catch basins, conveyances, and flow directions.	5. Update existing field inventory protocols and data collection application.	5. Permit Year 4	5. Yes/No	4	NA	Not applicable until Permit Year 4.
21	3.4.3 Develop and implement a program for mapping TS4 conveyances and outfalls associated with primary routes which are located within Phase I MS4 permitted areas. The program, at a minimum, shall include mapping of major outfalls, bridge outfalls discharging directly to surface waters, and associated inlets, catch basins, conveyances, and flow directions.	6. Develop or update training materials regarding TS4 Mapping Program for NCDOT staff and contractors.	6. Permit Year 4	6. Yes/No	4	NA	Not applicable until Permit Year 4.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
22	Implement field data collection for TS4 Mapping Program						
22	Collect field data for priority areas.	1. Perform training for NCDOT Staff and Contractors performing field data collection.	1. Permit Year 5	1. Yes/No	5	NA	Not applicable until Permit Year 5.
22	Collect field data for priority areas.	2. Initiate field data collection in current Phase I MS4 permitted areas.	2. Permit Year 5	2. Yes/No	5	NA	Not applicable until Permit Year 5.
23	Establish a statewide TS4 mapping inventory						
23	3.4.5 Establish a statewide TS4 mapping inventory to, at a minimum, include major outfalls and bridge outfalls discharging directly to surface waters, and associated inlets, catch basins, conveyances, and flow directions associated with primary routes which are located within Phase I MS4 permitted areas.	1. Maintain the data collected in an inventory geodatabase.	1. Permit Year 5	1. Yes/No	5	NA	Not applicable until Permit Year 5.
24	Modify the TS4SMP to include a process and schedule for the TS4 Mapping Program						
24	3.4.4 Modify the TS4SMP to include a process and schedule for the TS4 Mapping Program.	1. If the process or schedule above requires major updates, modify the TS4SMP to include a process and schedule for the TS4 Mapping Program.	1. As needed	1. Needed and modified/ Needed and not modified/ Not needed	1	Not needed	For the initial phase of the mapping program no adjustments to the schedule as outlined in the TS4SMP are needed.
Illicit Discharge Detection and Elimination (IDDE) Program							
25	Maintain a written IDDE Plan						
25	3.4.7 Maintain and implement a written IDDE Plan to detect and address illicit discharges, illegal dumping and any non-stormwater discharges identified as significant contributors of pollutants to the TS4. The plan will address the required components.	1. Update written IDDE Plan.	1. Permit Year 2	1. Yes/ No/ Partial	2	NA	Not applicable until Permit Year 2.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
25	3.4.7 Maintain and implement a written IDDE Plan to detect and address illicit discharges, illegal dumping and any non-stormwater discharges identified as significant contributors of pollutants to the TS4. The plan will address the required components.	2. Develop protocols to implement new procedures included in the updated IDDE Plan.	2. Permit Year 3	2. Yes/ No/ Partial	2	NA	Not applicable until Permit Year 2.
25	3.4.7 Maintain and implement a written IDDE Plan to detect and address illicit discharges, illegal dumping and any non-stormwater discharges identified as significant contributors of pollutants to the TS4. The plan will address the required components.	3. Update list of priority areas likely to have illicit discharges.	3. Permit Year 3	3. Yes/ No/ Partial	2	NA	Not applicable until Permit Year 2.
25	3.4.7 Maintain and implement a written IDDE Plan to detect and address illicit discharges, illegal dumping and any non-stormwater discharges identified as significant contributors of pollutants to the TS4. The plan will address the required components.	4. Continue to evaluate and assess the IDDE Program.	4. Annually, Permit Years 1-5	4. Yes/ No/ Partial	1	Yes	NCDOT assessed the IDDE Program and found no changes were needed.
26	Implement the IDDE Plan						
26	Implement the IDDE Plan	1. Identify illicit discharge and illegal dumping when performing other work on the NCDOT ROW.	1. Ongoing, Permit Year 1-5	1. Yes/ No/ Partial	1	Yes	Illicit discharges and illegal dumping are identified by NCDOT staff and contractors when working on NCDOT ROW.
26	Implement the IDDE Plan	2. Verify illicit discharges and illegal dumps reported by NCDOT staff or the public.	2. As needed, Permit Years 1-5	2. Number of verified illicit discharges and illegal dumps	1	2	NCDOT identified and field verified 2 illicit discharges that were reported. NCDOT also field verified 4 other potential illicit discharges that were resolved or determined to not need reporting.
26	Implement the IDDE Plan	3. Report verified discharges/illegal dumping to appropriate NCDEQ Regional Office.	3. Ongoing as needed, Permit Years 1-5	3. Number of illicit discharges/ illegal dumping reports to NCDEQ	1	2	NCDOT identified and field verified two illicit discharges that were reported to NCDEQ.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
26	Implement the IDDE Plan	4. Conduct dry weather outfall inspections.	4. As needed, Permit Years 2-5	4. Report number of outfalls inspected	1	0	No Field Inventory dry weather outfall inspections were conducted during PY1.
26	Implement the IDDE Plan	5. Eliminate the source(s) of an illicit discharge from NCDOT non-roadway facilities.	5. As needed, Permit Years 1-5	5. Number of illicit discharges from NCDOT non-roadway facilities eliminated/ None found	1	None found	NCDOT performs non-stormwater discharge assessments of its non-roadway facilities and documents if any illicit discharges are found so that they can be properly eliminated. No new illicit discharges were found at NCDOT non-roadway facilities during this permit year.
27	Maintain IDDE reporting procedure						
27	3.4.6 Maintain and implement standardized procedures and documentation for reporting illicit discharges and illegal dumping to the appropriate NCDOT staff for verification.	1. Maintain a process for NCDOT staff and contractors to report observed IDDEs to appropriately trained NCDOT staff for verification.	1. Ongoing, Permit Year 1-5	1. Yes/No	1	Yes	IDDEP process is maintained for NCDOT staff and contractors to report illicit discharges and illegal dumping incidents.
27	3.4.6 Maintain and implement standardized procedures and documentation for reporting illicit discharges, and illegal dumping to the appropriate NCDOT staff for verification.	2. Maintain a process for IDDEs reported by the public to be submitted to appropriately trained NCDOT staff for verification.	2. Ongoing, Permit Year 1-5	2. Yes/ No/ Partial	1	Yes	IDDEP process is maintained for public to report illicit discharges and illegal dumping incidents.
27	3.4.6 Maintain and implement standardized procedures and documentation for reporting illicit discharges and illegal dumping to the appropriate NCDOT staff for verification.	3. Appropriately trained NCDOT staff to verify reported IDDEs in a timely manner.	3. Ongoing, Permit Year 1-5	3. Yes/ No/ Partial	1	Yes	IDDEs are verified with NCDOT IDDE program criteria.
27	3.4.6 Maintain and implement standardized procedures and documentation for reporting illicit discharges and illegal dumping to the appropriate NCDOT staff for verification.	4. Appropriately trained NCDOT staff to report verified IDDEs to NCDEQ Regional Office and/or local government(s) having jurisdictional authority in a timely manner.	4. Ongoing, Permit Year 1-5	4. Yes/ No/ Partial	1	Yes	Verified IDDEs are reported per NCDOT IDDEP criteria.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
28	Maintain IDDE tracking procedure						
28	3.4.8 Maintain a standard IDDE tracking and documentation procedure for verified IDDE including date observed / reported, reporting source (staff, public, contractor, etc.), the results of the investigation / verification, and the date any verified event was reported to appropriate NCDOT staff, NCDEQ and/or local government having authority to resolve the event.	1. Update existing database of verified illicit discharges or illegal dumping	1. Permit Year 1	1. Yes/No	1	Yes	NCDOT has evaluated and updated its existing tracking database of verified illicit discharges or illegal dumping incidents.
28	3.4.8 Maintain a standard IDDE tracking and documentation procedure for verified IDDE including date observed / reported, reporting source (staff, public, contractor, etc.), the results of the investigation / verification, and the date any verified event was reported to appropriate NCDOT staff, NCDEQ and/or local government having authority to resolve the event.	2. Maintain database of verified illicit discharges or illegal dumping.	2. Ongoing, Permit Year 1-5	2. Yes/No	1	Yes	NCDOT continues to maintain its tracking database of verified illicit discharges or illegal dumping incidents.
29	Publicize reporting mechanism to NCDOT Staff and contractors						
29	3.4.10 Publicize reporting mechanism to NCDOT Staff and contractors.	1. Publicize the reporting mechanism to NCDOT Staff and contractors.	1. Ongoing, Permit Year 1-5	1. Yes/No	1	Yes	NCDOT publicizes its IDDEP reporting mechanism on NCDOT.gov and NCDOT Connect webpages and via NCDOT posters and brochure handouts.
30	Maintain IDDE training materials						
30	3.4.9 Maintain training materials on how to identify, report and document illicit discharges, illegal dumping.	1. Maintain training materials on how to identify, report and document illicit discharges, and illegal dumping.	1. Annually, Permit Years 1-5	1. Yes/ No/ Partial	1	Yes	NCDOT maintains training materials on how to identify, report and document illicit discharges and illegal dumping.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
30	3.4.9 Maintain training materials on how to identify, report and document illicit discharges, illegal dumping.	2. Update training materials as necessary.	2. As needed, Permit Years 1-5	2. Need and updated/ Needed but not updated/ Not needed	1	Not needed	NCDOT reviewed IDDEP training materials and determined that no update was needed.
31	Provide IDDE training for appropriate staff						
31	3.4.9 Train NCDOT staff and contractors who, as part of their normal job responsibilities, may observe an illicit discharge or illegal dumping.	1. Maintain “train the trainer” and staff training materials.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	NCDOT maintains “train the trainer” and staff/contractor training materials.
31	3.4.9 Train NCDOT staff and contractors who, as part of their normal job responsibilities, may observe an illicit discharge or illegal dumping.	2. Provide “train the trainer” instruction to appropriate staff.	2. Annually, Permit Years 1-5	2. Yes/No	1	Yes	“Train the trainer” instruction is provided to appropriate staff.
31	3.4.9 Train NCDOT staff and contractors who, as part of their normal job responsibilities, may observe an illicit discharge or illegal dumping.	3. Distribute materials for local trainers to train local staff.	3. Annually, Permit Years 1-5	3. Yes/No	1	Yes	Training materials are distributed to local trainers to train local staff.
31	3.4.9 Train NCDOT staff and contractors who, as part of their normal job responsibilities, may observe an illicit discharge or illegal dumping.	4. Maintain a tracking mechanism to document the “train the trainer” instruction, including the agenda/materials, date.	4. Annually, Permit Years 1-5	4. Yes/No	1	Yes	NCDOT maintains a tracking log to document the “train the trainer” instruction, including the agenda/materials, date.
31	3.4.9 Train NCDOT staff and contractors who, as part of their normal job responsibilities, may observe an illicit discharge or illegal dumping.	5. Document date of “train the trainer” instruction and agenda.	5. Continuously, Permit Years 1-5	5. Number of training events	1	19	Following the train-the-trainer approach, NCDOT HSP staff performed various training sessions that covered illicit discharges and illegal dumping. The IDDEP training sessions cover identification of non-stormwater discharges and IDDEP reporting procedures.
31	3.4.9 Train NCDOT staff and contractors who, as part of their normal job responsibilities, may observe an illicit discharge or illegal dumping.	6. Make training materials available to contractors if needed.	6. Continuously, Permit Years 1-5	6. Yes/ No / Not needed	1	Yes	Training materials are made available to contractors, as needed.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
31	3.4.9 Train NCDOT staff and contractors who, as part of their normal job responsibilities, may observe an illicit discharge or illegal dumping.	7. Evaluate if an update to or additional training resources is needed.	7. Annually, Permit Year 1-5	7. Yes/ No/ Not needed	1	Yes	NCDOT evaluated IDDEP training resources to determine if updates are needed. An old IDDEP report form identified on NCDOT Connect site was replaced with current version.
32	Provide IDDE training for appropriate contractors						
32	3.4.9 Train NCDOT staff and contractors who, as part of their normal job responsibilities, may observe an illicit discharge or illegal dumping.	1. Provide training to appropriate contractors through the Level I or Level II ESC training.	1. Continuously, Permit Years 3-5	1. Yes/No	3	NA	Not applicable until Permit Year 3.
Construction Site Runoff Control Program							
33	Implement Delegated Program						
33	3.5.1 Implement the NCDEQ Erosion and Sediment Control Program as delegated to NCDOT.	1. Seek re-delegation of the program.	1. Annually, Permit Years 1-5	1. Application submitted/ application not submitted	1	Application submitted	NCDOT has the following documents: 2022 ESC Annual Program Reports (filename: 2022 Chief Memo-Signed-Annual Delegation Authority 11-21-2022) and NCDEQ's Annual ESC Program Review (2022 NCDOT Audit Decision Memo 11-17-22)
33	3.5.1 Implement the NCDEQ Erosion and Sediment Control Program as delegated to NCDOT.	2. Continue delegation of the program.	2. Annually, Permit Years 1-5	2. Program delegated/ Program not delegated	1	Program delegated	NCDOT received a continuation of program delegation from NCDEQ on November 17, 2022.
33	3.5.1 Implement the NCDEQ Erosion and Sediment Control Program as delegated to NCDOT.	3. Participate in an Audit of the program as directed by DEMLR.	3. Annually, Permit Years 1-5	3. Audit held/ Audit not required by DEMLR	1	Audit held	The audit was held over the course of several months starting in June 2022 and continuing through October 2022 and consisted of multiple site visits to various selected construction projects in each NCDOT Division. Audit results are incorporated into DEMLR's Final Report titled "Annual Review of the ESC Program Delegation to the NCDOT Division of Highways" dated November 1, 2022. Approved on November 15, 2022.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
34	Incorporate the requirements of NCG010000 into NCDOT's delegated ESC Program						
34	3.5.2 Incorporate the requirements of NCG010000 into NCDOT's delegated ESC Program.	1. Develop a project-specific ESC plan incorporating the requirements of NCG010000 to be reviewed and approved by NCDOT.	1. Continuously, Permit Years 1-5	1. Number of ESC plans developed	1	431	Number of ESC plans developed is for this permit year.
34	3.5.2 Incorporate the requirements of NCG010000 into NCDOT's delegated ESC Program.	2. Maintain information regarding ESC in existing NCDOT programs.	2. Continuously, Permit Years 1-5	2. Yes/No	1	Yes	Information regarding ESC for existing NCDOT programs is maintained on NCDOT Connect site.
34	3.5.2 Incorporate the requirements of NCG010000 into NCDOT's delegated ESC Program.	3. Maintain the NCDOT Erosion and Sediment Control Design and Construction Manual.	3. Continuously, Permit Years 1-5	3. Yes/No	1	Yes	NCDOT Erosion and Sediment Control Design and Construction Manual is maintained and available on NCDOT Connect site.
34	3.5.2 Incorporate the requirements of NCG010000 into NCDOT's delegated ESC Program.	4. Maintain a program of routine inspections including NPDES Self-Monitoring and SPCA Self-Inspections.	4. Weekly, Permit Years 1-5	4. Yes/No	1	Yes	NCDOT maintains its NPDES Self-Monitoring and SPCA Self-Inspections program.
34	3.5.2 Incorporate the requirements of NCG010000 into NCDOT's delegated ESC Program.	5. Maintain program of compliance inspections at active construction sites.	5. Monthly, Permit Years 1-5	5. Yes/No	1	Yes	NCDOT maintains its program of compliance inspections at active construction sites.
34	3.5.2 Incorporate the requirements of NCG010000 into NCDOT's delegated ESC Program.	6. Maintain a database of inspections and corrective actions.	6. Continuously, Permit Years 1-5	6. Yes/No	1	Yes	NCDOT maintains its ERCON database of inspections and corrective actions.
34	3.5.2 Incorporate the requirements of NCG010000 into NCDOT's delegated ESC Program.	7. Issue corrective actions in response to inspections.	7. As Needed, Permit Years 1-5	7. Yes/No	1	Yes	NCDOT issues corrective actions in response to inspections if needed.
34	3.5.2 Incorporate the requirements of NCG010000 into NCDOT's delegated ESC Program.	8. Halt construction activities in response to inspections.	8. As Needed, Permit Years 1-5	8. Yes/No	1	Yes	NCDOT halts construction activities in response to inspections if needed.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
35	Construction Site Waste Management						
35	3.5.3 Construction site operators must control waste from such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste.	1. Maintain guidance on waste disposal from NCDOT construction sites.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	NCDOT has reviewed existing guidance on waste disposal from NCDOT construction sites. Existing guidance is maintained on NCDOT Connect site.
35	3.5.3 Construction site operators must control waste from such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste.	2. Require construction site operators to control waste from construction sites.	2. Continuously, Permit Years 1-5	2. Yes/No	1	Yes	Construction site operators are required to control waste from construction sites.
36	Provide and promote a means to notify of issues						
36	3.5.4 Provide a means for staff, contractors, and the public to report observed erosion and sedimentation problems	1. Maintain NCDOT's Contact Us Citizen Action Request (CARs) website.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	NCDOT maintains its Contact Us CARs website (https://www.ncdot.gov/contact/Pages/default.aspx).
36	3.5.4 Provide a means for staff, contractors, and the public to report observed erosion and sedimentation problems	2. Observations by the public are routed to trained NCDOT staff.	2. Continuously, Permit Years 1-5	2. Yes/No	1	Yes	NCDOT maintains its reporting mechanism for staff, contractors, and the public to report observed erosion and sedimentation problems which includes routing questions to trained staff.
36	3.5.4 Provide a means for staff, contractors, and the public to report observed erosion and sedimentation problems	3. Train appropriate NCDOT Staff and contractors to notify site-specific staff as part of Construction Program training.	3. Continuously, Permit Years 1-5	3. Yes/No	1	Yes	As part of Construction Program training, NCDOT trains appropriate staff and contractors to notify the site-specific staff.
37	Manage ESC on Borrow Pits and Waste Pile Projects						
37	3.5.6 Manage ESC on Borrow Pits and Waste Pile Projects including activities at NCDOT ferry terminals associated with dredging activities and contractor-owned or leased borrow pits associated with NCDOT projects.	1. Maintain policies to implement ESC measures on non-commercial borrow pits/waste piles.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	NCDOT maintains policies to implement ESC measures on non-commercial borrow pits/waste piles.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
37	3.5.6 Manage ESC on Borrow Pits and Waste Pile Projects including activities at NCDOT ferry terminals associated with dredging activities and contractor-owned or leased borrow pits associated with NCDOT projects.	2. Develop and implement an approved reclamation plan on non-commercial borrow pit/waste pile projects. The reclamation measures utilized shall be in keeping with the reclamation program established by the North Carolina Mining and Energy Commission.	2. Continuously, Permit Years 1-5	2. Number of new reclamation plans implemented	1	108	Reclamation plans are tracked by REU Field Operations staff. Values reported are from ERCON database.
37	3.5.6 Manage ESC on Borrow Pits and Waste Pile Projects including activities at NCDOT ferry terminals associated with dredging activities and contractor-owned or leased borrow pits associated with NCDOT projects.	3. Maintain policies to implement appropriate management measures to treat borrow pit discharges for given conditions.	3. Continuously, Permit Years 1-5	3. Yes/No	1	Yes	REU maintains policies for implementing ESC measures to treat borrow pit and waste site discharges on NCDOT Connect site.
37	3.5.6 Manage ESC on Borrow Pits and Waste Pile Projects including activities at NCDOT ferry terminals associated with dredging activities and contractor-owned or leased borrow pits associated with NCDOT projects.	4. Inspect and maintain borrow pit sites.	4. Continuously, Permit Years 1-5	4. Yes/No	1	Yes	Borrow pit sites are inspected and maintained.
37	3.5.6 Manage ESC on Borrow Pits and Waste Pile Projects including activities at NCDOT ferry terminals associated with dredging activities and contractor-owned or leased borrow pits associated with NCDOT projects.	5. Maintain training material and instruct field personnel overseeing borrow pit operations.	5. Continuously, Permit Years 1-5	5. Yes/No	1	Yes	Training program material and instruction of field personnel overseeing borrow pit operations is maintained.
37	3.5.6 Manage ESC on Borrow Pits and Waste Pile Projects including activities at NCDOT ferry terminals associated with dredging activities and contractor-owned or leased borrow pits associated with NCDOT projects.	6. Evaluate and implement appropriate new/innovative technologies.	6. Continuously, Permit Years 1-5	6. Yes/No	1	Yes	NCDOT evaluates and implements new and innovative technologies for ESC as part of NCDOT's Products Evaluation Program and NCDOT's Research Program.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
37	3.5.6 Manage ESC on Borrow Pits and Waste Pile Projects including activities at NCDOT ferry terminals associated with dredging activities and contractor-owned or leased borrow pits associated with NCDOT projects.	7. If a Division of Waste Management permit is required, obtain facility-specific coverage under a separate NPDES industrial stormwater permit.	7. As needed, Permit Years 1-5	7. Needed and acquired/ Needed and not acquired/ Not needed	1	Not needed	No separate DWM permits were needed in this permit year.
38	Maintain a list of projects subject to Delegated Program and NCG010000						
38	3.5.8 Maintain a current list of construction projects, borrow pits, waste piles, and dredge spoil piles subject to the delegated Erosion and Sediment Control Program and General Permit No. NCG010000 requirements	1. Develop a process to generate a list of projects subject to Delegated Program and NCG010000.	1. Permit Year 1	1. Yes/No	1	Yes	NCDOT has a process to generate a list of projects subject to Delegated Program and NCG010000. NCDOT projects are maintained online.
38	3.5.8 Maintain a current list of construction projects, borrow pits, waste piles, and dredge spoil piles subject to the delegated Erosion and Sediment Control Program and General Permit No. NCG010000 requirements	2. Maintain a list of projects subject to the delegated Erosion and Sediment Control Program and General Permit No. NCG010000 requirements.	2. Continuously, Permit Years 1-5	2. Number of projects	1	456 active land disturbing projects	Borrow pits and waste piles are considered part of the associated construction source project.
39	Provide training on erosion and sediment control (ESC) to appropriate staff						
39	3.5.9 Provide or require equivalent stormwater pollution awareness training for appropriate NCDOT personnel and contractors involved in construction activities.	1. Train NCDOT staff on implementation of appropriate ESC design and applicable components of NCG010000.	1. Continuously, Permit Years 1-5	1. Number of staff with Level III ESC/SW Certification	1	1,276 staff with Level III ESC/SW Certification	401 NCDOT staff with current Level 3 ESC certification and 875 private engineering consultant staff with current Level 3 ESC certification, equals 1,276 total.
39	3.5.9 Provide or require equivalent stormwater pollution awareness training for appropriate NCDOT personnel and contractors involved in construction activities.	2. Require appropriate contractors to be trained on implementation of appropriate ESC design and applicable components of NCG010000.	2. Continuously, Permit Years 1-5	2. Description of contract language requiring Level I and/or II ESC/SW Certification [Yes/No]	1	Yes	NCDOT has specific contract language to meet this metric.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
39	3.5.9 Provide or require equivalent stormwater pollution awareness training for appropriate NCDOT personnel and contractors involved in construction activities.	3. Provide construction staff with training on general stormwater awareness, waste management identification of stormwater pollution potential, appropriate spill response actions.	3. Continuously, Permit Years 1-5	3. Yes/No	1	Yes	NCDOT provides Level I&II training for appropriate NCDOT personnel and contractors involved in construction activities.
39	3.5.9 Provide or require equivalent stormwater pollution awareness training for appropriate NCDOT personnel and contractors involved in construction activities.	4. Document date of training, names of staff trained, and agenda.	4. Continuously, Permit Years 1-5	4. Number of training events	1	8 total training events	Eight training events held, including 4 Level 1 & 4 Level 2, plus on-demand virtual courses. Training program agendas are maintained. Training event documentation includes training session dates and attendees.
39	3.5.9 Provide or require equivalent stormwater pollution awareness training for appropriate NCDOT personnel and contractors involved in construction activities.	5. Make training materials available to contractors if needed.	5. Continuously, Permit Years 1-5	5. Yes/No	1	Yes	NCDOT makes Level I&II training program materials available to contractors. Training materials are maintained on NCDOT Connect site and also provided during classes (maintained by NCSU), includes hardcopy of materials and flip guide.
BMP Retrofit Program							
40	Identify Potential Retrofit Locations						
40	Identify potential locations to retrofit that address pollutant loading.	1. Maintain a database of potential retrofit locations.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	NCDOT maintains the ROSS database of potential retrofit locations located within NCDOT's AGOL GO!NC portal.
40	Identify potential locations to retrofit that address pollutant loading.	2. Add new locations identified each year to database	2. Continuously, Permit Years 1-5	2. Number of new locations added to database and total number of locations	1	38 sites field screened with 23 sites determined feasible for retrofit; 78,665 total Retrofit Opportunity Areas statewide	NCDOT performed field screening of 38 sites and identified 23 sites that were deemed feasible for retrofit from ROSS field investigations. Additionally, four other potential sites in Wake County (Morrisville, Cary, Holly Springs, and Wake Tech) were identified as feasible for retrofits. The total number of Retrofit Opportunity Areas statewide maintained in ROSS is 78,665.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
41	Complete Retrofits						
41	3.6.1.a Complete a total of 70 retrofits over the 5-year term of this permit. Maintain a retrofit inventory tracking system.	1. Design and construct or implement retrofits appropriate for the identified pollutants of concern. More than one retrofit can be located at one location.	1. Continuously, Permit Years 1-5	1. Number of retrofits completed within the permit year and the total number of retrofits over all permit terms	1	16 retrofits completed in this permit year. 325 total retrofits completed since Permit Term I.	NCDOT continues to design and construct retrofits appropriate for the identified pollutants of concern. BMP Retrofits are tracked in HU's Excel spreadsheet "Retrofit Index" maintained on HU server.
41	3.6.1.a Complete a total of 70 retrofits over the 5-year term of this permit. Maintain a retrofit inventory tracking system.	2. Maintain a retrofit inventory tracking system. Track status of retrofits.	2. Continuously, Permit Years 1-5	2. Number of retrofits in development within the permit year	1	16 BMP retrofits in development in PY1.	NCDOT maintains a BMP retrofit inventory tracking system which includes tracking of BMP retrofits currently in development.
41	3.6.1.a Complete a total of 70 retrofits over the 5-year term of this permit. Maintain a retrofit inventory tracking system.	3. Incorporate finished SCM retrofits into the I&M program.	3. Continuously, Permit Years 1-5	3. Yes/No	1	Yes	BMP retrofits are tracked and when construction is completed, they are added to NCDOT's SCMS database as a new SCM.
41	3.6.1.a Complete a total of 70 retrofits over the 5-year term of this permit. Maintain a retrofit inventory tracking system.	4. Verify 70 retrofits are completed within the 5-year term of the permit.	4. Once, Permit Year 5	4. Yes/No	5	NA	Not applicable until Permit Year 5.
42	Replace Retrofits that have been removed						
42	3.6.1.b Implement a replacement retrofit for any retrofit completed after the effective date of this permit and subsequently removed from service.	1. Evaluate if any previously credited retrofits have been removed from service.	1. Annually, Permit Years 1-5	1. Number of retrofits removed within the permit year	1	0 removed	NCDOT evaluated if any previously credited retrofits have been removed from service since May 1, 2022 and none were removed.
42	3.6.1.b Implement a replacement retrofit for any retrofit completed after the effective date of this permit and subsequently removed from service.	2. Develop a procedure to identify existing retrofits that are to be removed when planning a new project.	2. Permit Year 2	2. Yes/No	2	NA	Not applicable until Permit Year 2.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
42	3.6.1.b Implement a replacement retrofit for any retrofit completed after the effective date of this permit and subsequently removed from service.	3. Initiate a plan for a new retrofit for each applicable retrofit removed.	3. As needed, Permit Years 1-5	3. Number of replacement retrofits initiated within the permit year	1	0 replacement retrofits	NCDOT tracks BMP retrofits and there were no replacement retrofits needed in PY1; therefore, no plans were initiated.
42	3.6.1.b Implement a replacement retrofit for any retrofit completed after the effective date of this permit and subsequently removed from service.	4. Update retrofit inventory tracking system.	4. As needed	4. Yes/ No/ Not needed	1	Not needed	NCDOT evaluated its BMP retrofit tracking system and determined that no updates were needed in PY1.
43	Maintain approved construction drawings and as-built plans						
43	3.6.1.d Maintain approved construction drawings and as-built plans consistent with the permit requirement under 3.6.3(d) below for each structural retrofit established under this permit.	1. Maintain approved construction drawings and as-built plans consistent with the permit requirement under 3.6.3(d) for each structural retrofit established after the effective date of this permit.	1. Continuously, Permit Years 4-5	1. Yes/No	4	NA	Not applicable until Permit Year 4.
BMP Toolbox							
44	Maintain a BMP Toolbox						
44	3.6.2.a and 3.6.2.b Maintain a BMP Toolbox to provide design guidance for post-construction stormwater control measures appropriate for a linear highway system and aid in siting and construction of BMPs.	1. Review and evaluate if the BMP Toolbox to include new BMP types, design components and guidance, if needed.	1. Permit Year 1	1. Yes/No	1	Yes	A review of the 2014 BMP Toolbox was completed, along with a review of select peer states' DOTs and regulatory agencies. The review revealed needs to update the BMP Toolbox with revisions and additional chapters.
44	The Toolbox will include appropriate uses/ anticipated applications and design criteria.	2. Evaluate new BMP types and design elements and recent research to assess if the existing Toolbox needs to be updated.	2. Annually, Permit Years 1-5	2. Yes/ No new BMP types applicable/ New BMP types were not evaluated	1	Yes, BMP Toolbox is being updated	The BMP Toolbox is being updated and this is documented in BMP Toolbox Compliance memo titled "ToolboxComplianceMemo_TermV_PY1_wAttachments_20230302".

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
44	The Toolbox will include appropriate uses/ anticipated applications and design criteria.	3. Update the Toolbox as necessary.	3. Periodically, when determined necessary	3. Toolbox updated/ Toolbox update underway/ Update not necessary	1	Toolbox update underway	BMP Toolbox is currently being updated, as documented in memo titled "ToolboxComplianceMemo_TermV_PY1_wAttachments_20230302".
44	The Toolbox will include appropriate uses/ anticipated applications and design criteria.	4. Submit proposed revised or new sections of the BMP Toolbox to NCDEQ for approval prior to implementation.	4. Periodically, when update is determined necessary	4. Yes, submitted/ No, Toolbox not updated	1	no, Toolbox not updated (Update is underway)	The BMP Toolbox update will be submitted to NCDEQ for approval upon completion.
Post Construction Stormwater Program							
45	Develop and provide guidance for BMP Toolbox implementation and post-construction requirements						
45	3.6.3.a Define implementation of the approved NCDOT BMP Toolbox and post-construction SCMs in the PCSP Manual.	1. Make guidance on how and when to implement the BMP Toolbox available to staff and contractors online.	1. Continuously, Permit Years 1-5	1. Yes/ No/ Partial	1	Yes	NCDOT maintains its PCSP guidance, available to staff and contractors on NCDOT Connect site (https://connect.ncdot.gov/resources/hydro/Pages/Highway-Stormwater-Program.aspx), and as documented in the PCSP Compliance memo titled "PCSP_Compliance_Memo_TermV_PY1_wAttachments_20230317".
45	3.6.3.c Submit proposed updates to the PCSP to the Division for approval prior to implementation.	2. Submit proposed guidance revisions to NCDEQ for approval prior to implementation.	2. Periodically, when updated	2. Updated and submitted/ Not needed	1	Updated and submitted	NCDOT's PCSP Manual was updated and submitted to NCDEQ. It was approved by NCDEQ in May 2022 and then immediately implemented by NCDOT. This is documented in PCSP Compliance memo titled "PCSP_Compliance_Memo_TermV_PY1_wAttachments_20230317".
46	Make guidance available						
46	3.6.3.b Make relevant guidance, post-construction requirements, design standards, checklists, and/or other materials available to staff and contractors.	1. Maintain a website repository of guidance documents.	1. Continuously, Permit Years 1-5	1. Yes/ No/ Partial	1	Yes	Resources available online. NCDOT maintains PCSP guidance documents on NCDOT Connect site (https://connect.ncdot.gov/resources/hydro/Pages/Highway-Stormwater-Program.aspx). The PCSP Compliance memo titled "PCSP_Compliance_Memo_TermV_PY1_wAttachments_20230317"

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
46	3.6.3.b Make relevant guidance, post-construction requirements, design standards, checklists, and/or other materials available to staff and contractors.	2. Verify the correct information is displayed on the website, and update as needed.	2. Annually, Permit Years 1-5	2. Yes/ No/ Partial	1	Yes	NCDOT HU staff verified that the correct, updated guidance information is available online.
46	3.6.3.b Make relevant guidance, post-construction requirements, design standards, checklists, and/or other materials available to staff and contractors.	3. Maintain a current version of the Post-Construction Stormwater Program (PCSP) Manual and associated documents online.	3. Continuously, Permit Years 1-5	3. Yes/No	1	Yes	PCSP Manual, dated May 2022, is available to staff and contractors on NCDOT Connect site (https://connect.ncdot.gov/resources/hydro/Pages/Highway-Stormwater-Program.aspx).
46	3.6.3.b Make relevant guidance, post-construction requirements, design standards, checklists, and/or other materials available to staff and contractors.	4. Maintain a current version of the BMP Toolbox Manual online.	4. Continuously, Permit Years 1-5	4. Yes/No	1	Yes	The 2014 version of BMP Toolbox is available on NCDOT Connect site; it is currently being updated.
46	3.6.3.b Make relevant guidance, post-construction requirements, design standards, checklists, and/or other materials available to staff and contractors.	5. Maintain a current version of the SCM Inspection and Maintenance Manual online.	5. Continuously, Permit Years 1-5	5. Yes/No	1	Yes	SCM I&M Manual, dated October 2022, is available to staff and contractors on NCDOT Connect site.
46	3.6.3.b Make relevant guidance, post-construction requirements, design standards, checklists, and/or other materials available to staff and contractors.	6. Maintain current versions of the stormwater-related design standards and guidance online.	6. Continuously, Permit Years 1-5	6. Yes/No	1	Yes	NCDOT stormwater-related design standards and guidance is available to staff and contractors on NCDOT Connect site, as documented in the PCSP Compliance memo titled "PCSP_Compliance_Memo_TermV_PY1_wAttachments_20230317".
46	3.6.3.b Make relevant guidance, post-construction requirements, design standards, checklists, and/or other materials available to staff and contractors.	7. Review guidance to determine if updates are needed.	7. Annually, Years 1-5	7. Yes/No	1	Yes	NCDOT staff reviewed guidance and determined any necessary updates (i.e., BMP Toolbox is currently being updated). Documents reviewed are noted in the PCSP Compliance memo titled "PCSP_Compliance_Memo_TermV_PY1_wAttachments_20230317".

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
46	3.6.3.b Make relevant guidance, post-construction requirements, design standards, checklists, and/or other materials available to staff and contractors.	8.Update guidance as needed.	8. Periodically as needed	8. Need and updated/ Needed and in progress/ Needed but not updated/ Not needed	1	Needed and in progress	As noted herein, NCDOT’s PCSP Manual was updated and approved in May 2022, SCM I&M Manual was updated in October 2022, BMP Toolbox is currently being updated, and other guidance documents do not need updating.
47	Standard Policy for drawings and as-built plans						
47	3.6.3.d Define and implement a standard policy for preparing and maintaining structural stormwater control measure (SCM) construction drawings and as-built plans on file.	1. Develop the policy and process for maintaining SCM construction drawings and as-built plans on file.	1. Permit Year 1 and 2	1. Yes/ No/ Partial	1	Partial	NCDOT has made progress in PY1 and is continuing to work toward completion of BMP in PY2 as per schedule. The Department has introduced a new summary sheet for SCMs to be included within roadway construction plans. This will aid the tracking of SCMs from design through construction, and into inspection and maintenance phases of the SCMs’ life cycle. Additionally, NCDOT established a working group to determine the best approach for completing as-builts.
47	3.6.3.d Define and implement a standard policy for preparing and maintaining structural stormwater control measure (SCM) construction drawings and as-built plans on file.	2. Develop the database or repository for the construction drawings and as-built plans.	2. Permit Year 2	2. Yes/ No/ Partial	2	NA	Not applicable until Permit Year 2.
47	3.6.3.d Define and implement a standard policy for preparing and maintaining structural stormwater control measure (SCM) construction drawings and as-built plans on file.	3. Provide training to NCDOT Staff on maintaining the construction drawings and as-built plans.	3. Permit Year 3	3. Yes/ No/ Partial	3	NA	Not applicable until Permit Year 3.
47	3.6.3.d Define and implement a standard policy for preparing and maintaining structural stormwater control measure (SCM) construction drawings and as-built plans on file.	4. Implement the policy and process for all new SCMs.	4. Permit Year 3	4. Yes/ No/ Partial	3	NA	Not applicable until Permit Year 3.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
Facilities Operation and Maintenance Program							
48	Maintain an Inventory of Non-roadway Facilities						
48	3.7.1.a Maintain an inventory of non-roadway facilities with the potential to contribute pollution to stormwater runoff. The inventory shall also specifically identify and include each facility that is subject to NPDES industrial stormwater permitting.	1. Develop list of non-roadway facilities (as listed in paragraph 1.1.4 of the permit)	1. Permit Year 1	1. Yes/No	1	Yes	NCDOT maintains a list of non-roadway facilities, including facilities that have industrial-type activities.
48	3.7.1.a Maintain an inventory of non-roadway facilities with the potential to contribute pollution to stormwater runoff. The inventory shall also specifically identify and include each facility that is subject to NPDES industrial stormwater permitting.	2. Identify non-roadway industrial activities (as listed in paragraph 1.1.4 of the permit) which are subject to NPDES industrial stormwater permitting.	2. Annually, Permit Years 1-5	2. Yes/No	1	Yes	NCDOT maintains a list of its non-roadway facilities, which includes facilities that have industrial-type activities. NCDOT REU maintains the list on its server. NCDOT REU coordinates with NCDOT Division staff annually to identify any new non-roadway facilities and then determine if the non-roadway facilities would meet any industrial permit requirements. See BMP 52 below for non-roadway industrial activities subject to NPDES industrial stormwater permitting.
48	3.7.1.a Maintain an inventory of non-roadway facilities with the potential to contribute pollution to stormwater runoff. The inventory shall also specifically identify and include each facility that is subject to NPDES industrial stormwater permitting.	3. Review non-roadway facilities inventory to confirm its up to date.	3. Annually, Permit Years 2-5	3. Number of non-roadway facilities	2	NA	Not applicable until Permit Year 2.
49	Facility Inspections and Routine Maintenance						
49	3.7.1.b Establish and implement specific frequencies, schedules, and standard documentation for facility inspections and routine maintenance.	1. Establish inspection frequencies for each site in the site-specific SPPP.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	Inspection frequencies have been established for each site in NCDOT's site-specific SPPPs.
49	3.7.1.b Establish and implement specific frequencies, schedules, and standard documentation for facility inspections and routine maintenance.	2. Continue the facility inspection program, including daily, monthly, semi-annual and annual inspections as included in the SPPP for each applicable facility.	2. Continuously, Permit Years 1-5	2. Yes/No	1	Yes	NCDOT continues to implement facility inspections, which include daily, monthly, semi-annual, and annual inspections as outlined in each applicable facility SPPP.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
49	3.7.1.b Establish and implement specific frequencies, schedules, and standard documentation for facility inspections and routine maintenance.	3. Document semi-annual and annual compliance inspections.	3. Annually, Permit Years 1-5	3. Number of inspections	1	408 inspections	NCDOT performs semi-annual and annual inspections at its non-roadway facilities with TS4 operations. NCDOT documents facility inspections on its SPPP website and within each site-specific SPPPs located on-site at the respective facilities. NCDOT performed 408 semi-annual and annual inspections at its facilities during this permit year.
49	3.7.1.b Establish and implement specific frequencies, schedules, and standard documentation for facility inspections and routine maintenance.	4. Maintain a program to perform routine maintenance of material handling areas and stormwater systems at applicable non-roadway facilities.	4. Continuously, Permit Years 1-5	4. Yes/No	1	Yes	NCDOT continues a program to perform routine maintenance of material handling areas and stormwater systems at applicable non-roadway facilities.
49	3.7.1.b Establish and implement specific frequencies, schedules, and standard documentation for facility inspections and routine maintenance.	5. Maintain preventative maintenance program of facility equipment and systems.	5. Continuously, Permit Years 1-5	5. Yes/No	1	Yes	NCDOT continues to maintain a preventative maintenance program of facility equipment and systems.
49	3.7.1.b Establish and implement specific frequencies, schedules, and standard documentation for facility inspections and routine maintenance.	6. Maintain a program to perform maintenance if indicated during inspection, as needed.	6. As needed, Permit Years 1-5	6. Yes/No	1	Yes	NCDOT continues to maintain a program to perform maintenance if the need is identified during an inspection.
50	Provide training to facilities staff						
50	3.7.1.c Provide annual staff training for facility staff on general stormwater awareness, implementing pollution prevention and good housekeeping practices, spill response, preventative maintenance, and identifying and reporting illicit discharges and illegal dumping.	1. Maintain "train the trainer" and staff training materials.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	"Train the trainer" and staff training materials are maintained and available to NCDOT trainers/personnel. NCDOT site-specific SPPPs and SPPP videos are used for training at facilities. NCDOT's IRMA BMP Guidance Manual is available to NCDOT trainers. Posters, guidance documents, and various training PPTs are also provided to trainers.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
50	3.7.1.c Provide annual staff training for facility staff on general stormwater awareness, implementing pollution prevention and good housekeeping practices, spill response, preventative maintenance, and identifying and reporting illicit discharges and illegal dumping.	2. Provide “train the trainer” instruction to appropriate staff.	2. Annually, Permit Years 1-5	2. Yes/No	1	Yes	Train the trainer instruction is provided to NCDOT Division staff, as needed
50	3.7.1.c Provide annual staff training for facility staff on general stormwater awareness, implementing pollution prevention and good housekeeping practices, spill response, preventative maintenance, and identifying and reporting illicit discharges and illegal dumping.	3. Distribute materials for local trainers to train local staff.	3. Annually, Permit Years 1-5	3. Yes/No	1	Yes	Training materials are distributed to Division trainers so they can train local staff.
50	3.7.1.c Provide annual staff training for facility staff on general stormwater awareness, implementing pollution prevention and good housekeeping practices, spill response, preventative maintenance, and identifying and reporting illicit discharges and illegal dumping.	4. Maintain a tracking mechanism to document the “train the trainer” instruction, including the agenda/materials, date.	4. Annually, Permit Years 1-5	4. Yes/No	1	Yes	NCDOT maintains a web-based tracking log that includes attributes (e.g., date, location, agenda, materials, attendees) to document train the trainer sessions.
50	3.7.1.c Provide annual staff training for facility staff on general stormwater awareness, implementing pollution prevention and good housekeeping practices, spill response, preventative maintenance, and identifying and reporting illicit discharges and illegal dumping.	5. Document date of “train the trainer” instruction and agenda.	5. Continuously, Permit Years 1-5	5. Number of training events	1	17	Following the train-the-trainer approach, NCDOT HSP staff performed 17 training sessions for staff to address SPPP implementation, which included GH&PP, IDDEP, PM, SPR, etc. Each training session varied in length depending on needs of the attendees.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
50	3.7.1.c Provide annual staff training for facility staff on general stormwater awareness, implementing pollution prevention and good housekeeping practices, spill response, preventative maintenance, and identifying and reporting illicit discharges and illegal dumping.	6. Make training materials available to contractors if needed.	6. Continuously, Permit Years 1-5	6. Yes/ No/ Not needed	1	Yes	Training materials are available to contractors, as needed.
50	3.7.1.c Provide annual staff training for facility staff on general stormwater awareness, implementing pollution prevention and good housekeeping practices, spill response, preventative maintenance, and identifying and reporting illicit discharges and illegal dumping.	7. Evaluate if an update to or additional training resources is needed.	7. Annually, Permit Year 1-5	7. Yes/ No/ Not needed	1	Yes	NCDOT performed an evaluation of existing training materials and determined that no update was needed. NCDOT will continue to update and/or create additional training materials as needed.
51	Develop, maintain, and implement SPPPs NCDOT non-roadway facilities with TS4 operations						
51	3.7.1.d NCDOT non-roadway facilities with TS4 operations will maintain and implement a site-specific Stormwater Pollution Prevention Plan (SPPP) to address good housekeeping and pollution prevention from their operations, and should include inspections.	1. Implement SPPPs following USEPA and NCDEQ guidance for stormwater pollution prevention and BMPs.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	NCDOT site-specific SPPPs are implemented for stormwater pollution prevention and BMPs.
51	3.7.1.d NCDOT non-roadway facilities with TS4 operations will maintain and implement a site-specific Stormwater Pollution Prevention Plan (SPPP) to address good housekeeping and pollution prevention from their operations, and should include inspections.	2. For new activities or facilities, the SPPP shall be developed and implemented prior to operation.	2. Continuously, Permit Years 1-5	2. Yes/ No/ Not Needed	1	Yes	SPPPs are developed and implemented prior to operation for new activities/ facilities.
51	Non-roadway facilities with TS4 operations are inspected as part of the SPPP and/or Paragraph 3.7.6 in lieu of NCG080000 requirements for stormwater point source discharges from like industrial activities, as deemed to be similar by DEMLR.	3. Maintain a tracking system for SPPP implementation.	3. Continuously, Permit Years 1-5	3. Yes/No	1	Yes	SPPP implementation is tracked on-site at each site-specific SPPP binder located at each facility. Additionally, NCDOT REU tracks SPPP implementation. NCDOT also utilizes the SPPP website to aid in SPPP implementation.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
52	Implement General Permit Requirements for non-roadway industrial activities						
52	3.7.1.3-Develop, maintain, and implement requirements in accordance with the current NPDES industrial stormwater general permit applicable to each facility which is subject to NPDES industrial stormwater permitting. This condition supersedes the requirement to obtain an NPDES industrial stormwater general permit Certificate of Coverage for each subject facility	1. Assess required facilities and identify needs.	1. Permit Year 1	1. Yes/No	1	Yes	NCDOT HSP staff performed an assessment of facilities to verify any permit needs. No new permit needs were identified in this permit year.
52	3.7.1.3-Develop, maintain, and implement requirements in accordance with the current NPDES industrial stormwater general permit applicable to each facility which is subject to NPDES industrial stormwater permitting. This condition supersedes the requirement to obtain an NPDES industrial stormwater general permit Certificate of Coverage for each subject facility	2. Update the SPPP for the NC Global TransPark to include applicable requirements of NCG150000.	2. Permit Year 2	2. Yes/No	2	NA	Not applicable until Permit Year 2.
52	3.7.1.3-Develop, maintain, and implement requirements in accordance with the current NPDES industrial stormwater general permit applicable to each facility which is subject to NPDES industrial stormwater permitting. This condition supersedes the requirement to obtain an NPDES industrial stormwater general permit Certificate of Coverage for each subject facility	3. Update the SPPP for the existing asphalt plant to include applicable requirements of NCG160000.	3. Permit Year 2	3. Yes/No	2	NA	Not applicable until Permit Year 2.
52	3.7.1.3-Develop, maintain, and implement requirements in accordance with the current NPDES industrial stormwater general permit applicable to each facility which is subject to NPDES industrial stormwater permitting. This condition supersedes the requirement to obtain an NPDES industrial stormwater general permit Certificate of Coverage for each subject facility	4. Update the SPPP for Manns Harbor State Shipyard to include applicable requirements of NCG190000.	4. Permit Year 3	4. Yes/No	3	NA	Not applicable until Permit Year 3.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
52	3.7.1.3-Develop, maintain, and implement requirements in accordance with the current NPDES industrial stormwater general permit applicable to each facility which is subject to NPDES industrial stormwater permitting. This condition supersedes the requirement to obtain an NPDES industrial stormwater general permit Certificate of Coverage for each subject facility	5. Update the SPPP for Raleigh Railcar & Locomotive Maintenance Facility to include applicable requirements of NCG080000.	5. Permit Year 3	5. Yes/No	3	NA	Not applicable until Permit Year 3.
52	3.7.1.3-Develop, maintain, and implement requirements in accordance with the current NPDES industrial stormwater general permit applicable to each facility which is subject to NPDES industrial stormwater permitting. This condition supersedes the requirement to obtain an NPDES industrial stormwater general permit Certificate of Coverage for each subject facility	6. Include applicable requirements of NCG080000 in the SPPP for Charlotte Railcar & Locomotive Maintenance Facility prior to operation.	6. As needed, prior to operation	6. Not yet needed/ Yes	2	NA	Not applicable until Permit Year 2.
Spill Response Program							
53	Identify and Inventory non-roadway facilities with the potential to contaminate stormwater runoff or surface waters from spills						
53	3.7.2.a Evaluate facilities to determine the potential for spills and associated impacts to the TS4 and surface waters.	1. Develop a procedure to evaluate non-roadway facilities for the potential for spills and associated impacts to the TS4 and surface waters.	1. Permit Year 2	1. Yes/No	2	NA	Not applicable until Permit Year 2.
53	3.7.2.b Maintain a current inventory of facilities that store and/or use materials that have the potential to contaminate stormwater runoff or surface waters if spilled.	2. Implement a procedure to evaluate facilities.	2. Annually, Permit Years 3-5	2. Yes/No	3	NA	Not applicable until Permit Year 3.
53	3.7.2.b Maintain a current inventory of facilities that store and/or use materials that have the potential to contaminate stormwater runoff or surface waters if spilled.	3. Identify which non-roadway facilities that store and/or use materials having the potential to contaminate stormwater runoff or surface waters if spilled.	3. Annually, Permit Years 3-5	3. Yes/No	3	NA	Not applicable until Permit Year 3.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
54	Spill Response Procedures						
54	3.7.2.c Maintain and implement written spill response procedures.	1. Maintain written spill response procedures.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	Written spill response procedures are maintained via NCDOT's SPPP/SPCC Plan Template.
54	3.7.2.c Maintain and implement written spill response procedures.	2. Evaluate the spill response procedures and update if needed.	2. Annually, Permit Years 1-5	2. Yes/ No/ Update not needed	1	Update not needed	Spill response procedures were reviewed and determined that an update is not needed.
54	3.7.2.c Maintain and implement written spill response procedures.	3. Implement spill response procedures.	3. As needed, Permit Years 1-5	3. Needed and implemented/ Needed but not implemented/ Not needed	1	Needed and implemented	Spill response procedures implemented via SPPP/SPCC Plans at Facilities, SPPP/SPCC website, including Form 25.
55	Provide spill response training to appropriate staff						
55	3.7.2.d Provide annual spill response training for facility staff who will respond to facilities that store and/or use materials that have the potential to contaminate stormwater runoff or surface waters if spilled.	1. Maintain "train the trainer" and staff training materials.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	"Train the trainer" and staff training materials are maintained and available to NCDOT trainers/personnel. NCDOT site-specific SPPPs and SPPP videos are used for training at facilities. NCDOT's IRMA BMP Guidance Manual is available to NCDOT trainers. Posters, guidance documents, and various training PPTs are also provided to trainers.
55	3.7.2.d Provide annual spill response training for facility staff who will respond to facilities that store and/or use materials that have the potential to contaminate stormwater runoff or surface waters if spilled.	2. Provide "train the trainer" instruction to appropriate staff.	2. Annually, Permit Years 1-5	2. Yes/No	1	Yes	NCDOT provided "Train the trainer" instruction to NCDOT staff, as needed.
55	3.7.2.d Provide annual spill response training for facility staff who will respond to facilities that store and/or use materials that have the potential to contaminate stormwater runoff or surface waters if spilled.	3. Distribute materials for local trainers to train local staff.	3. Annually, Permit Years 1-5	3. Yes/No	1	Yes	Training materials were distributed as requested to local trainers for use in training local staff.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
55	3.7.2.d Provide annual spill response training for facility staff who will respond to facilities that store and/or use materials that have the potential to contaminate stormwater runoff or surface waters if spilled.	4. Maintain a tracking mechanism to document the “train the trainer” instruction, including the agenda/ materials, date.	4. Annually, Permit Years 1-5	4. Yes/No	1	Yes	NCDOT HSP staff maintain tracking mechanisms to document train the trainer instructions. Specific training agendas, materials, and dates of training are tracked for each instruction. NCDOT utilizes a training log for scheduled training events; LMS to track online, on-demand training; and facility SPPP/SPCC Plan binders at the facilities.
55	3.7.2.d Provide annual spill response training for facility staff who will respond to facilities that store and/or use materials that have the potential to contaminate stormwater runoff or surface waters if spilled.	5. Document date of “train the trainer” instruction and agenda.	5. Continuously, Permit Years 1-5	5. Number of training events	1	16	Following the train-the-trainer approach, NCDOT HSP staff conducted 16 SPPP/SPCC Plan implementation training sessions for Division staff, which included NCDOT’s spill prevention and response procedures. Training sessions are documented on NCDOT’s training log, and include training session dates, attendees, and agenda.
55	3.7.2.d Provide annual spill response training for facility staff who will respond to facilities that store and/or use materials that have the potential to contaminate stormwater runoff or surface waters if spilled.	6. Make training materials available to contractors if needed.	6. Continuously, Permit Years 1-5	6. Yes/ No/ Not needed	1	Yes	NCDOT continues to make training materials available to contractors.
55	3.7.2.d Provide annual spill response training for facility staff who will respond to facilities that store and/or use materials that have the potential to contaminate stormwater runoff or surface waters if spilled.	7. Evaluate if an update to or additional training resources is needed.	7. Annually, Permit Year 1-5	7. Yes/ No/ Not needed	1	Not needed	NCDOT evaluated if updates were needed to training materials resources and determined no updates needed.
TS4 Operation and Maintenance Program							
56	Develop and implement standard protocols for identifying and addressing high-priority areas						
56	3.7.3.a Develop and implement standard protocols for identifying and addressing high priority areas which have potential for discharge of pollutants to surface waters.	1. Develop protocols for identifying high priority areas which have potential for discharge of pollutants to surface waters.	1. Permit Year 2	1. Yes/No	2	NA	Not applicable until Permit Year 2.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
56	3.7.3.a Develop and implement standard protocols for identifying and addressing high priority areas which have potential for discharge of pollutants to surface waters.	2. Implement protocol to identify high priority areas	2. Permit Year 3	2. Yes/No	2	NA	Not applicable until Permit Year 2.
56	3.7.3.a Develop and implement standard protocols for identifying and addressing high priority areas which have potential for discharge of pollutants to surface waters.	3. Develop protocols for selecting BMPs to address high priority areas, including prioritizing specific areas with highest potential impacts	3. Permit Year 3	3. Yes/No	2	NA	Not applicable until Permit Year 2.
56	3.7.3.a Develop and implement standard protocols for identifying and addressing high priority areas which have potential for discharge of pollutants to surface waters.	4. Develop training on standard protocols for identifying and addressing high priority areas	4. Permit Year 3	4. Yes/No	3	NA	Not applicable until Permit Year 3.
57	Implement BMPs to reduce or eliminate the discharge of pollutants from high-priority areas						
57	3.7.3.b Implement BMPs to reduce or eliminate the discharge of pollutants from high-priority areas. BMPs may include capture technologies; storm drain inlet grate design to minimize the entry of pollutants into the storm sewer system; roadway sweeping; litter and debris removal; catch basin and inlet inspections and cleaning, or other appropriate practices.	1. Establish a schedule to implement BMPs requiring significant design and funding for prioritized locations.	1. Permit Year 4	1. Yes/No	4	NA	Not applicable until Permit Year 4.
57	3.7.3.b Implement BMPs to reduce or eliminate the discharge of pollutants from high-priority areas. BMPs may include capture technologies; storm drain inlet grate design to minimize the entry of pollutants into the storm sewer system; roadway sweeping; litter and debris removal; catch basin and inlet inspections and cleaning, or other appropriate practices.	2. Perform road sweeping activities in selected areas	2. Continuously, Permit Years 1-5	2. Documented lane miles swept	1	12,753 miles swept	NCDOT Divisions 1-7 and 9-14 perform road sweeping activities in selected areas. NCDOT Divisions utilize both NCDOT Forces and Contractors to perform road sweeping activities. NCDOT REU maintains a Division Sweeping tracking spreadsheet on REU's server.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
57	3.7.3.b Implement BMPs to reduce or eliminate the discharge of pollutants from high-priority areas. BMPs may include capture technologies; storm drain inlet grate design to minimize the entry of pollutants into the storm sewer system; roadway sweeping; litter and debris removal; catch basin and inlet inspections and cleaning, or other appropriate practices.	3. Perform litter and debris removal activities in selected areas.	3. Continuously, Permit Years 1-5	3. Yes/No (pounds of litter to be included in total amount collected)	1	Yes (11,539,995 pounds of litter collected in CY 2022)	NCDOT performed litter and debris removal activities statewide in selected areas. Total pounds collected in CY 2022 is tracked in NCDOT's Litter Management system website and published in NCDOT's "2022 NC Interagency Litter Report: Litter Cleanup, Education/Prevention and Enforcement". The report and summary table is available to the public on NCDOT's LM website at https://www.ncdot.gov/initiatives-policies/environmental/litter-management/Pages/
57	3.7.3.b Implement BMPs to reduce or eliminate the discharge of pollutants from high-priority areas. BMPs may include capture technologies; storm drain inlet grate design to minimize the entry of pollutants into the storm sewer system; roadway sweeping; litter and debris removal; catch basin and inlet inspections and cleaning, or other appropriate practices.	4. Initiate implementation of BMPs requiring significant design and funding for prioritized locations.	4. Continuously, Permit Years 4-5	4. Yes/No	4	NA	Not applicable until Permit Year 4.
57	3.7.3.b Implement BMPs to reduce or eliminate the discharge of pollutants from high-priority areas. BMPs may include capture technologies; storm drain inlet grate design to minimize the entry of pollutants into the storm sewer system; roadway sweeping; litter and debris removal; catch basin and inlet inspections and cleaning, or other appropriate practices.	5. Implement BMPs based on an established schedule.	5. Continuously, Permit Years 4-5	5. Number of BMPs implemented	4	NA	Not applicable until Permit Year 4.
58	Maintain the TS4 collection system						
58	3.7.3.c Establish, maintain, and implement specific frequencies, schedules, and standard documentation for inspection, operation, and maintenance of the TS4.	1. Establish specific frequencies and schedules for inspections, operation, and maintenance of the TS4, based on prioritization of roadway facility type and potential for impact to water quality.	1. Permit Year 2	1. Yes/No	2	NA	Not applicable until Permit Year 2.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
58	3.7.3.c Establish, maintain, and implement specific frequencies, schedules, and standard documentation for inspection, operation, and maintenance of the TS4.	2. Establish standard documentation for inspection, operation, and maintenance of the TS4.	2. Permit Year 2	2. Yes/No	2	NA	Not applicable until Permit Year 2.
58	3.7.3.c Establish, maintain, and implement specific frequencies, schedules, and standard documentation for inspection, operation, and maintenance of the TS4.	3. Update existing training on inspecting, maintaining, and documenting maintenance on the collection system including catch basins, inlets, outfalls, and conveyances.	3. Permit Years 3-5	3. Yes/ No/ Updates were not necessary	3	NA	Not applicable until Permit Year 3.
58	3.7.3.c Establish, maintain, and implement specific frequencies, schedules, and standard documentation for inspection, operation, and maintenance of the TS4.	4. Perform current practices of scheduled maintenance on the TS4 collection system on an established schedule.	4. Continuously, Permit Years 1-3	4. Yes/No	1	Yes	NCDOT Division staff perform scheduled maintenance on the TS4 collection system on established schedules. Records of scheduled maintenance are maintained in each Division.
58	3.7.3.c Establish, maintain, and implement specific frequencies, schedules, and standard documentation for inspection, operation, and maintenance of the TS4.	5. Integrate new practices into scheduled maintenance on the TS4 collection system on an established schedule.	4. Continuously, Permit Years 4-5	4. Yes/No	4	NA	Not applicable until Permit Year 4.
58	3.7.3.c Establish, maintain, and implement specific frequencies, schedules, and standard documentation for inspection, operation, and maintenance of the TS4.	6. Perform unscheduled maintenance on the TS4 collection system based on maintenance needs identified after significant storm events, citizen complaints, or as identified during other operations.	6. Continuously, Permit Years 1-5	6. Yes/No	1	Yes	NCDOT Division staff perform unscheduled maintenance on the TS4 collection system based on maintenance needs identified after significant storm events, citizen complaints, or as identified during other operations. Records of unscheduled maintenance are maintained in each Division.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
59	Provide operation and maintenance training						
59	3.7.3 d Train maintenance staff and contractors on stormwater awareness and pollution prevention, performing TS4 inspections, identifying and reporting issues, and maintaining the collection system including catch basins, inlets, outfalls, and conveyances.	1. Train appropriate staff on stormwater awareness pollution prevention training in conjunction with the facility where staff are located.	1. Annually, Permit Years 1-5	1. Yes/No	1	Yes	Appropriate NCDOT staff are trained on stormwater awareness pollution prevention training in conjunction with the facility where staff are located. Training records are maintained on site at each NCDOT facility.
59	3.7.3 d Train maintenance staff and contractors on stormwater awareness and pollution prevention, performing TS4 inspections, identifying and reporting issues, and maintaining the collection system including catch basins, inlets, outfalls, and conveyances.	2. Train appropriate staff on performing TS4 inspections, identifying and reporting issues.	2. Annually, Permit Years 1-5	2. Yes/No	1	Yes	Appropriate NCDOT staff are trained on performing TS4 inspections, identifying and reporting issues.
59	3.7.3 d Train maintenance staff and contractors on stormwater awareness and pollution prevention, performing TS4 inspections, identifying and reporting issues, and maintaining the collection system including catch basins, inlets, outfalls, and conveyances.	3. Train appropriate staff on maintaining the collection system including catch basins, inlets, outfalls and conveyances.	3. Annually, Permit Years 1-5	3. Yes/No	1	Yes	Appropriate NCDOT staff are trained on maintaining the collection system.
59	3.7.3 d Train maintenance staff and contractors on stormwater awareness and pollution prevention, performing TS4 inspections, identifying and reporting issues, and maintaining the collection system including catch basins, inlets, outfalls, and conveyances.	4. Develop a procedure to implement training requirements for applicable contractor staff.	4. Permit Year 4	4. Yes/No	4	NA	Not applicable until Permit Year 4.
59	3.7.3 d Train maintenance staff and contractors on stormwater awareness and pollution prevention, performing TS4 inspections, identifying and reporting issues, and maintaining the collection system including catch basins, inlets, outfalls, and conveyances.	5. Implement contractor training procedures	5. Permit Year 5	5. Yes/No	5	NA	Not applicable until Permit Year 5.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
59	3.7.3 d Train maintenance staff and contractors on stormwater awareness and pollution prevention, performing TS4 inspections, identifying and reporting issues, and maintaining the collection system including catch basins, inlets, outfalls, and conveyances.	6. Integrate updated protocols into annual training as new protocols become available.	6. As needed	6. Yes/ No/ Not Needed	1	Not Needed	Updated protocols are not needed in this permit year; therefore, they are not integrated into annual training.
59	3.7.3 d Train maintenance staff and contractors on stormwater awareness and pollution prevention, performing TS4 inspections, identifying and reporting issues, and maintaining the collection system including catch basins, inlets, outfalls, and conveyances.	7. Review training materials annually	7. Annually, Permit Years 1-5	7. Yes/No	1	Yes	Training materials were reviewed by HSP staff.
59	3.7.3 d Train maintenance staff and contractors on stormwater awareness and pollution prevention, performing TS4 inspections, identifying and reporting issues, and maintaining the collection system including catch basins, inlets, outfalls, and conveyances.	8. Update guidance as needed.	8. Periodically as needed	8. Need and updated/ Needed but not updated/ Not needed	1	Not needed	During the review of training materials, HSP staff determined that updates to the training materials were not needed.
SCM Inspection and Maintenance Program							
60	Maintain an SCM Inventory						
60	3.7.4.a Maintain an SCM Inventory.	1. Maintain an SCM Inventory to include, at a minimum, the SCM location and type.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	SCM inventory maintained in SCMS (which includes SCM location and type).
60	3.7.4.a Maintain an SCM Inventory.	2. Update inventory with newly constructed SCMs as needed.	2. Continuously, Permit Years 1-5	2. Number of SCMs in inventory	1	1,453	NCDOT maintains its SCM inventory and updates its inventory by adding newly constructed SCMs and removing any SCMs taken out of service. NCDOT utilizes its web-based Stormwater Control Management System (SCMS) to track its SCM inventory.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
61	Perform inspections and maintenance on SCMs						
61	3.7.4.b Inspect and maintain each SCM in accordance with appropriate operation & maintenance criteria for the device, which shall include specific frequencies, schedules, and standard documentation	1. Maintain the SCM I&M Manual, including written procedures and criteria for the inspection and maintenance of SCMs.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	SCM I&M Manual is maintained. The manual contains detailed guidance for performing inspections and maintenance operations at NCDOT SCMs.
61	3.7.4.b Inspect and maintain each SCM in accordance with appropriate operation & maintenance criteria for the device, which shall include specific frequencies, schedules, and standard documentation	2. Evaluate if the SCM I&M Manual needs to be updated.	2. Annually, Permit Years 1-5	2. Yes and updated/ Yes but not updated/ Update not needed	1	Yes and updated	SCM I&M Manual was updated in October 2022.
61	3.7.4.b Inspect and maintain each SCM in accordance with appropriate operation & maintenance criteria for the device, which shall include specific frequencies, schedules, and standard documentation	3. Perform inspections and maintenance on SCMs in accordance with I&M Manual.	3. Continuously, Permit Years 1-5	3. Yes/No	1	Yes	NCDOT performed inspections and maintenance on its SCMs in accordance with NCDOT's SCM I&M Manual. Inspections performed on 86% of subject SCMs have LOS = C or better. NCDOT performed routine maintenance on SCMs as needed throughout the permit year and completed repairs on 23 SCMs that needed non-routine maintenance.
61	3.7.4.b Inspect and maintain each SCM in accordance with appropriate operation & maintenance criteria for the device, which shall include specific frequencies, schedules, and standard documentation	4. Inspect newly constructed SCMs.	4. Continuously, Permit Years 1-5	4. Number of new projects inspected	1	60	NCDOT has processes in place to inspect newly constructed SCMs. This process involves NCDOT REU Field Operations personnel entering new SCMs in NCDOT's SCMS inventory system during closeout of construction projects, which then triggers the need for inspections by appropriate Division Roadside Environmental staff. In CY 2022, there were 60 new SCMs entered into SCMS and they were inspected.
61	3.7.4.b Inspect and maintain each SCM in accordance with appropriate operation & maintenance criteria for the device, which shall include specific frequencies, schedules, and standard documentation	5. Track inspections and maintenance of the SCMs in the inventory.	5. Annually, Permit Years 1-5	5. Yes/No	1	Yes	NCDOT continues to track inspections and maintenance of SCMs in its inventory. NCDOT tracks I&M activities in its web-based Stormwater Control Management System (SCMS) database and D-F tracking log.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
62	Provide training to staff performing SCM inspections						
62	3.7.4.c Train SCM inspection and maintenance staff and contractors on inspection, operation, and maintenance of SCMs.	1. Maintain training materials on the SCM I&M Program and how to perform and document inspections and operation.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	NCDOT maintains training materials on SCM I&M Program which includes how to perform and document inspections and maintenance operations.
62	3.7.4.c Train SCM inspection and maintenance staff and contractors on inspection, operation, and maintenance of SCMs.	2. Provide training on the SCM I&M Program and how to perform and document inspections and operation.	2. Annually, Permit Years 1-5	2. Number of staff trained	1	70	NCDOT provided training on SCM I&M Program at various workshop or individual settings.
62	3.7.4.c Train SCM inspection and maintenance staff and contractors on inspection, operation, and maintenance of SCMs.	3. Make training materials available to contractors if needed.	3. Continuously, Permit Years 1-5	3. Yes/ No/ Not needed	1	Yes	Training materials (e.g., NCDOT's SCM I&M Manual, Field Guide for Post-Construction Stormwater BMPs, and SCM I&M Program PowerPoint presentations) are provided to contractors, when needed.
62	3.7.4.c Train SCM inspection and maintenance staff and contractors on inspection, operation, and maintenance of SCMs.	4. Document date of training, names of staff trained, and agenda.	4. Continuously, Permit Years 1-5	4. Number of training events	1	4	NCDOT HSP staff provided SCM inspection and maintenance program training to NCDOT staff and contractors during several workshop or group sessions. Training included specific guidance on the inspection and documentation procedures and routine maintenance of NCDOT's SCMs. Training sessions are documented on NCDOT's training log, and include training session dates, attendees, and agenda.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
Vegetation, Pesticide and Fertilizer Management							
63	Provide training to vegetation management personnel						
63	3.7.5.a Provide annual training for vegetation management personnel, and train or require equivalent training for vegetation management contractors. Training shall consist of appropriate uses and applications of pest control products (chemical agents) and shall also cover proper mowing techniques; appropriate spill response and reporting; label-specific uses, storage and handling of landscape products, tools and equipment; and the potential for water quality impacts.	1. Staff responsible for managing the application of pesticides will maintain certification by the North Carolina Department of Agriculture and Consumer Services (NCDA&CS) to include appropriate uses and applications of pest control products (chemical agents), label-specific uses, storage and handling of landscape products and the potential for water quality.	1 Continuously, Permit Years 1-5	1. Number of staff certified	1	294	NCDA&CS reports 294 staff members are certified.
63	3.7.5.d Maintain compliance with applicable Pesticide Applicator licensing requirements.	2. Maintain training materials to supplement certification training, as needed.	2. Continuously, Permit Years 1-5	2. Yes/No	1	Yes	Training materials have been reviewed and are in compliance with industry standards. Training materials are maintained by REU VM staff.
63	3.7.5.d Maintain compliance with applicable Pesticide Applicator licensing requirements.	3. Provide general training on pollution prevention and chemical use, storage and handling, spill response and the potential for water quality for staff involved in application of pesticides and fertilizers.	3. Annually, Permit Years 1-5	3. Number of staff trained	1	507	Training numbers: December 6, 2022 = 55, January 31, 2023 = 119, February 27, 2023 = 121, March 27, 2023 = 146, April 6, 2023 = 66 Trained. Total staff = 507.
63	3.7.5.d Maintain compliance with applicable Pesticide Applicator licensing requirements.	4. Provide training on proper mowing techniques, tools and equipment; and the potential for water quality impacts to staff performing associated duties.	4. Annually, Permit Years 1-5	4. Number of staff trained	1	18 contractor representatives trained	There are 18 mowing contractors statewide for this permit year. NCDOT Division Roadside Environmental Engineers review contract requirements including mowing techniques and provide guidance and training to mowing contractors, as appropriate.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
63	3.7.5.d Maintain compliance with applicable Pesticide Applicator licensing requirements.	5. Make training materials available to contractors if needed.	5. Continuously, Permit Years 1-5	5. Yes/ No/ Not needed	1	Yes	NCDOT REU and Division Roadside Environmental Engineers make guidance and training materials available, as needed.
63	3.7.5.d Maintain compliance with applicable Pesticide Applicator licensing requirements.	6. Document date of training, names of staff trained, and agenda.	6. Continuously, Permit Years 1-5	6. Number of training events	1	5 training events	REU Central conducted both in-person and virtual training sessions throughout the permit year. There were a total of 5 different training sessions. License holders also attended various NCDA&CS-approved training sessions outside of those conducted by REU.
63	3.7.5.d Maintain compliance with applicable Pesticide Applicator licensing requirements.	7. Require equivalent training for vegetation management contractors through contract language.	7. Continuously, Permit Years 2-5	7. Yes/No	2	Yes	This BMP was completed ahead of schedule. Individual contract language and daily tailgate meetings are part of NCDOT's training program for contractors. Equivalent training for VM contractors is required via NCDOT VM contract language.
64	Implement appropriate pest control methods and practices						
64	3.7.5.b Use biological control measures as sanctioned by the North Carolina Department of Agriculture & Consumer Services (NCDA&CS).	1. Continue to consult with NCDA&CS and North Carolina State University (NCSU), as needed, in selecting appropriate pest control methods and implementation practices.	1. As Needed, Permit Years 1-5	1. Yes/ No/ Not needed	1	Yes	NCDOT coordinates with NCDA&CS and NCSU on NCDOT's VM program. NCDOT coordinates its VM programs with various Ph.D. level researchers at NCSU. Additionally, only products approved for use by NCDA&CS are used in the Department's VM program. NCDOT also coordinate various special use permits through both NCSU and NCDA&CS.
64	3.7.5.c Utilize only EPA and/or NCDA&CS-approved pesticide and fertilizer products, and apply them in accordance with the manufacturer's directions, labels, and restrictions	2. Maintain and update the NCDOT Roadside Vegetation Management Manual as new methods and practices are adopted.	2. As Needed, Permit Years 1-5	2. Yes/ No/ Update Not Needed	1	Yes	NCDOT's Vegetation Management manual has been reviewed and found it corresponds to current industry standard VM practices and no additional revisions are needed at this time.
64	3.7.5.c Utilize only EPA and/or NCDA&CS-approved pesticide and fertilizer products, and apply them in accordance with the manufacturer's directions, labels, and restrictions	3. Restrict pesticide and fertilizer usage to those materials approved by EPA/NCDA&CS. Pesticide and fertilizer shall be used in accordance with label restrictions.	3. Continuously, Permit Years 1-5	3. Yes/No	1	Yes	During this review period, NCDOT only used VM products that were approved by the USEPA and NCDA&CS to maintain our rights of way.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
Vehicle and Equipment Maintenance Program							
65	Conduct inspections and preventative maintenance on vehicles and equipment						
65	3.7.6.a Perform routine inspections of facilities, vehicles, and equipment, and establish specific frequencies, schedules, and documentation for inspections, and re-inspections when issues are identified.	1. Establish specific frequencies, schedules, and documentation procedures for inspections, and re-inspections of facilities, vehicles, and equipment when issues are identified.	1. Permit Year 2	1. Yes/No	2	NA	Not applicable until Permit Year 2.
65	3.7.6.a Perform routine inspections of facilities, vehicles, and equipment, and establish specific frequencies, schedules, and documentation for inspections, and re-inspections when issues are identified.	2. Maintain procedures to inspect active vehicles and equipment in NCDOT's fleet for maintenance needs.	2. Continuously, Permit Years 2-5	2. Yes/No	1	Yes	NCDOT maintains procedures for inspecting active vehicles and equipment in NCDOT's fleet for maintenance needs. NCDOT State Maintenance and Division Equipment Units track all inspections and maintenance performed on NCDOT vehicles and equipment.
65	3.7.6.a Perform routine inspections of facilities, vehicles, and equipment, and establish specific frequencies, schedules, and documentation for inspections, and re-inspections when issues are identified.	3. Implement documentation procedures for inspections and re-inspections.	3. Permit Year 2	3. Yes/No	2	NA	Not applicable until Permit Year 2.
65	3.7.6.a Perform routine inspections of facilities, vehicles, and equipment, and establish specific frequencies, schedules, and documentation for inspections, and re-inspections when issues are identified.	4. Establish facility inspection frequencies and practices if not already included in SPPPs under Paragraph 3.7.1.	4. Continuously, Permit Years 1-5	4. Yes/No / All facilities covered under 3.7.1.	1	Yes	NCDOT has established facility inspection frequencies and practices.
65	3.7.6.a Perform routine inspections of facilities, vehicles, and equipment, and establish specific frequencies, schedules, and documentation for inspections, and re-inspections when issues are identified.	5. Provide preventative maintenance on active vehicles and equipment in NCDOT's fleet.	5. Continuously, Permit Years 1-5	5. Yes/No	1	Yes	NCDOT provides preventative maintenance on active vehicles and equipment in NCDOT's fleet.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
66	Provide training to staff maintaining vehicles and equipment						
66	3.7.6.b Provide annual staff training for facility staff on general stormwater awareness, implementing pollution prevention and good housekeeping practices, spill response, preventative maintenance, and identifying and reporting illicit discharges and illegal dumping.	1. Perform training on general stormwater awareness, implementing pollution prevention, good housekeeping practices and spill response in conjunction with training for facility staff.	1. Continuously, Permit Years 2-5	1. Yes/No	2	NA	Not applicable until Permit Year 2.
66	3.7.6.b Provide annual staff training for facility staff on general stormwater awareness, implementing pollution prevention and good housekeeping practices, spill response, preventative maintenance, and identifying and reporting illicit discharges and illegal dumping.	2. Perform training on identifying and reporting illicit discharges and illegal dumping in conjunction with training for facility staff.	2. Continuously, Permit Years 2-5	2. Yes/No	2	NA	Not applicable until Permit Year 2.
66	3.7.6.b Provide annual staff training for facility staff on general stormwater awareness, implementing pollution prevention and good housekeeping practices, spill response, preventative maintenance, and identifying and reporting illicit discharges and illegal dumping.	3. Perform training on preventative maintenance.	3. Continuously, Permit Years 2-5	3. Yes/No	2	NA	Not applicable until Permit Year 2.
66	3.7.6.b Provide annual staff training for facility staff on general stormwater awareness, implementing pollution prevention and good housekeeping practices, spill response, preventative maintenance, and identifying and reporting illicit discharges and illegal dumping.	4. Maintain training materials.	4. Continuously, Permit Years 2-5	4. Yes/No	2	NA	Not applicable until Permit Year 2.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
Litter Management Program							
67	Continue to implement litter management programs						
67	3.7.7.a Continue to implement litter management programs to collect litter and debris and minimize discharges to surface waters.	1. Use NCDOT Forces to collect litter/debris.	1. Continuously, Permit Years 1-5	1. Document quantity of litter/debris collected	1	1,593,270 pounds of litter/debris collected by NCDOT Forces	NCDOT continues to utilize NCDOT Forces to collect litter from NC roadways; which includes litter collections during NCDOT's semi-annual Litter Sweep events. NCDOT tracks specific quantities of litter collections by groups via online Pickup Reports and maintains this data on its LM website.
67	3.7.7.a Continue to implement litter management programs to collect litter and debris and minimize discharges to surface waters.	2. Use Contract Litter Removal services to collect litter/debris.	2. Continuously, Permit Years 1-5	2. Document quantity of litter/debris collected	1	8,339,865 pounds of litter/debris collected by NCDOT Contractors	NCDOT continues to use Contracted Litter Removal as a critical component of its Litter Management program for collecting litter/debris from NC roadways. NCDOT tracks specific quantities of litter collections by groups via online Pickup Reports and maintains this data on its LM website.
67	3.7.7.a Continue to implement litter management programs to collect litter and debris and minimize discharges to surface waters.	3. Continue Adopt-A-Highway Program.	3. Continuously, Permit Years 1-5	3. Document quantity of litter/debris collected	1	888,780 pounds of litter/debris collected by AAH volunteers	NCDOT continues to operate its Adopt-A-Highway (AAH) program for litter collection along NC roadways. Details of NCDOT's AAH program and instructions for volunteers is available at https://www.ncdot.gov/initiatives-policies/environmental/adoptahighway/Pages/default.aspx . NCDOT tracks specific quantities of litter collections by groups via online Pickup Reports and maintains this data on its LM website.
67	3.7.7.a Continue to implement litter management programs to collect litter and debris and minimize discharges to surface waters.	4. Continue Sponsor-A-Highway Program.	4. Continuously, Permit Years 1-5	4. Document quantity of litter/debris collected	1	600,810 pounds	NCDOT continues to maintain its Sponsor-A-Highway (SAH) program. In CY 2022, NCDOT's SAH program recovered 600,810 pounds of litter and debris from NCDOT ROW.
67	3.7.7.a Continue to implement litter management programs to collect litter and debris and minimize discharges to surface waters.	5. Continue Swat-A-Litterbug Program.	5. Continuously, Permit Years 1-5	5. Number of Swat-A-Litterbug reports mailed out	1	4,954 reports mailed out	NCDOT continues to operate its Swat-A-Litterbug program which includes mailing out notices to individuals reported using NCDOT's Swat-A-Litterbug reporting mechanisms. NCDOT LM maintains a count of reports mailed out.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
67	3.7.7.a Continue to implement litter management programs to collect litter and debris and minimize discharges to surface waters.	6. Dispose of litter collected through litter management programs.	6. Continuously, Permit Years 1-5	6. Quantity of total litter/debris collected	1	11,539,995 pounds of litter/debris collected for all NCDOT LM programs	NCDOT continues to implement LM programs to collect litter and debris and minimize discharges to surface waters. This includes NCDOT's CLR, AAH, and SAH programs, as well as use of NCDOT Forces. In addition to these LM programs, NCDOT tracks Other Volunteers (who collected 117,270 pounds of litter/debris). NCDOT tracks specific quantities of litter collections by groups via online Pickup Reports and maintains this data on its LM website.
68	Establish routine litter inspections and removal						
68	3.7.7.b Establish and implement standard processes and documentation for routine litter inspections and removal, performed at a minimum of quarterly, and including identification of high-priority areas that will receive more frequent inspections, removal and/or BMPs.	1. Establish standard processes for routine litter inspections and removal to be performed quarterly.	1. Permit Year 1	1. Yes/No	1	Yes	NCDOT has established standard processes for routine litter inspections and removal through its various litter collection programs. This includes AAH program, SAH program, CLR program, NCDOT Forces litter collection, Litter Sweep, which together involve various litter collection and removal frequencies (e.g., AAH quarterly pickups, CLR monthly or seasonal pickups, Litter Sweep biannual pickups). NCDOT LM and Division Litter Managers continue to identify and select high-priority areas for CLR, AAH, SAH, Litter Sweep, and NCDOT Forces to focus their litter collection efforts. NCDOT documents litter and debris collection using its online Litter Pickup Report. NCDOT continues to evaluate its litter collection programs annually including how high-priority areas are identified.
68	3.7.7.b Establish and implement standard processes and documentation for routine litter inspections and removal, performed at a minimum of quarterly, and including identification of high-priority areas that will receive more frequent inspections, removal and/or BMPs.	2. Establish processes for documentation of routine litter inspections and removal.	2. Permit Year 1	2. Yes/No	1	Yes	Processes for documentation of routine litter inspections and removal are established.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
68	3.7.7.b Establish and implement standard processes and documentation for routine litter inspections and removal, performed at a minimum of quarterly, and including identification of high-priority areas that will receive more frequent inspections, removal and/or BMPs.	3. Implement standard processes and documentation for routine litter inspections and removal, performed at a minimum of quarterly.	3. Continuously, Permit Years 1-5	3. Document quantity of litter/debris collected	1	9,829,455 pounds	NCDOT continues to implement its standard processes and documentation procedures for routine litter inspections and removal. In CY 2022, NCDOT's Contract Litter Removal (CLR) program removed 8,339,865 pounds of litter, Adopt-A-Highway (AAH) program removed 888,780 pounds of litter, and Sponsor-A-Highway (SAH) program removed 600,810 pounds of litter. These programs performed at least quarterly removals. NCDOT Forces and Other Volunteers removed additional quantities of litter on other frequencies.
68	3.7.7.c Utilize TS4 mapping efforts to support decisions on identification of high-priority areas and implementation of BMPs to prevent the discharge of litter to surface waters.	4. Coordinate with NCDOT Division Staff to identify high-priority areas where litter and debris may enter surface waters.	4. Continuously, Permit Years 1-5	4. Yes/No	1	Yes	NCDOT Division staff continue to prioritize areas where litter and debris collection is needed when directing contractor litter removal, which includes using Primary Routes, high ADT areas, historic litter/debris problem areas, and other factors unique to each Division. HSP staff has initiated coordination with Division staff to identify high-priority areas where litter and debris may enter surface waters.
68	3.7.7.c Utilize TS4 mapping efforts to support decisions on identification of high-priority areas and implementation of BMPs to prevent the discharge of litter to surface waters.	5. Utilize TS4 mapping efforts to support decisions on identification of high-priority areas and implementation of BMPs to prevent the discharge of litter to surface waters.	5. Permit Year 5	5. Yes/No	5	NA	Not applicable until Permit Year 5.
68	3.7.7.c Utilize TS4 mapping efforts to support decisions on identification of high-priority areas and implementation of BMPs to prevent the discharge of litter to surface waters.	6. Implement more frequent inspections and litter removal in high-priority areas.	6. On established schedule, Permit Years 4-5	6. Yes/No	4	NA	Not applicable until Permit Year 4.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
69	Implement BMPs to reduce or eliminate the discharge of litter and debris from high priority areas						
69	3.7.7.d Implement BMPs to reduce or eliminate the discharge of litter and debris from high priority areas. BMPs may include capture technologies; storm drain inlet grate design to minimize the entry of litter and debris into the storm sewer system; litter and debris removal; catch basin and inlet inspections and cleaning, or other appropriate practices.	1. Establish a schedule to implement BMPs requiring significant design and funding for prioritized locations.	1. Permit Year 3	1. Yes/No	3	NA	Not applicable until Permit Year 3.
69	3.7.7.d Implement BMPs to reduce or eliminate the discharge of litter and debris from high priority areas. BMPs may include capture technologies; storm drain inlet grate design to minimize the entry of litter and debris into the storm sewer system; litter and debris removal; catch basin and inlet inspections and cleaning, or other appropriate practices.	2. Perform road sweeping activities in selected areas.	2. Continuously, Permit Years 2-5	2. Document lane miles swept	2	NA	Not applicable until Permit Year 2.
69	3.7.7.d Implement BMPs to reduce or eliminate the discharge of litter and debris from high priority areas. BMPs may include capture technologies; storm drain inlet grate design to minimize the entry of litter and debris into the storm sewer system; litter and debris removal; catch basin and inlet inspections and cleaning, or other appropriate practices.	3. Perform litter and debris removal activities in prioritized areas.	3. Continuously, Permit Years 1-5	3. Yes /No (volume of litter to be included in total amount collected)	1	Yes (11,539,995 pounds)	NCDOT continues to perform litter and debris removal activities in prioritized areas. NCDOT LM and Division Litter Managers evaluate the prioritized areas each year for litter and debris collections for its various anti-litter programs. The total litter collected in CY 2022 was 11,539,995 pounds.
69	3.7.7.d Implement BMPs to reduce or eliminate the discharge of litter and debris from high priority areas. BMPs may include capture technologies; storm drain inlet grate design to minimize the entry of litter and debris into the storm sewer system; litter and debris removal; catch basin and inlet inspections and cleaning, or other appropriate practices.	4 Initiate implementation of BMPs requiring significant design and funding for prioritized locations.	4. Continuously, Permit Years 4-5	4. Number of BMPs implemented	4	NA	Not applicable until Permit Year 4.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
69	3.7.7.d Implement BMPs to reduce or eliminate the discharge of litter and debris from high-priority areas. BMPs may include capture technologies; storm drain inlet grate design to minimize the entry of litter and debris into the storm sewer system; litter and debris removal; catch basin and inlet inspections and cleaning, or other appropriate practices.	5. Implement BMPs based on an established schedule.	5. Continuously, Permit Years 4-5	5. Yes/No	4	NA	Not applicable until Permit Year 4.
Fecal Coliform Reduction Program							
70	Maintain a pet waste management measure						
70	3.7.8.a Maintain NCDOT's pet waste management measures at Rest Areas/Welcome Centers and Ferry Terminals.	1. Post signage and make available pet waste disposal kiosks at Rest Areas/ Welcome Centers and Ferry Terminals.	1. Continuously, Permit Years 1-5	1. Number of pet waste stations	1	255	NCDOT posts signage and makes available pet waste disposal kiosks at its Rest Areas/ Welcome Centers and Ferry Terminals. NCDOT maintains 255 pet waste stations across the State at these locations. NCDOT staff and contractors inspect the pet waste stations regularly to make sure the signage is legible and pet waste disposal kiosks are functional.
70	3.7.8.a Maintain NCDOT's pet waste management measures at Rest Areas/Welcome Centers and Ferry Terminals.	2. Provide public education materials about the impact of pet waste to water quality at Rest Areas/Welcome Centers and Ferry Terminals.	2. Continuously, Permit Years 1-5	2. Yes/No	1	Yes	Public education signage is provided at pet waste stations located at NCDOT Rest Areas/Welcome Centers and Ferry Terminals.
71	Connect sanitary discharges to POTWs						
71	3.7.8.b Connect on-site septic systems at NCDOT non-roadway facilities to publicly owned treatment works (POTWs) where feasible; or properly operate and maintain the on-site septic system.	1. Operate and maintain on-site domestic wastewater treatment systems in accordance with manufacturer's and State guidance.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	NCDOT operates and maintains on-site domestic wastewater treatment systems in accordance with manufacturer's and State guidance.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
71	3.7.8.b Connect on-site septic systems at NCDOT non-roadway facilities to publicly owned treatment works (POTWs) where feasible; or properly operate and maintain the on-site septic system.	2. Connect existing on-site domestic wastewater treatment systems to a POTW when available.	2. Annually, Permit Years 1-5	2. Yes/No	1	Yes	NCDOT connects existing on-site domestic wastewater treatment systems to a POTW when available. No new connections are being reported this permit year.
71	3.7.8.b Proper operation and maintenance for septic systems shall include staff training on general stormwater awareness, impacts of fecal coliform in receiving waters, and how to properly operate and maintain the septic system.	3. Perform training on general stormwater awareness and impacts of fecal coliform in receiving waters in conjunction with training for facility staff.	3. Continuously, Permit Years 1-5	3. Yes/No	1	Yes	NCDOT HSP staff provided training on SPPP implementation to Division staff during several training sessions, which included general stormwater awareness and water quality impacts from septic waste discharges, illicit discharges and illegal dumping, and other potential stormwater pollutants.
71	3.7.8.b Proper operation and maintenance for septic systems shall include staff training on general stormwater awareness, impacts of fecal coliform in receiving waters, and how to properly operate and maintain the septic system.	4. Develop training for appropriate staff on how to properly operate and maintain the septic system.	4. Permit Year 2	4. Yes/No	2	NA	Not applicable until Permit Year 2.
71	3.7.8.b Proper operation and maintenance for septic systems shall include staff training on general stormwater awareness, impacts of fecal coliform in receiving waters, and how to properly operate and maintain the septic system.	5. Provide training for appropriate staff on how to properly operate and maintain the septic system.	5. Continuously, Permit Years 3-5	5. Yes/No	3	NA	Not applicable until Permit Year 3.
Total Maximum Daily Load Program							
72	Track EPA-approved TMDLs						
72	1. Track EPA-approved TMDLs.	1. Maintain a TMDL Tracking Database to track TMDLs that have been issued.	1. Continuously, Permit Years 1-5	1. Updated/ Not updated/ Update not needed since no new TMDLs were issued	1	Updated	During PY1 EPA approved two TMDL reports prepared by NCDWR as follows: Turkey Creek - EPA approved 10/21/2022 Virginia Creek - EPA approved 6/14/2022 NCDOT updated its TMDL tracking database accordingly.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
73	Address TMDLs where NCDOT is named as a significant contributor and is assigned a unique WLA						
73	3.8.1 For EPA-approved TMDLs that specifically name the Permittee as a significant contributor and assign a unique WLA to the Permittee that is separate from other sources, develop and implement water quality improvement strategies.	1. Track the number and status of TMDLs where NCDOT is named as a significant contributor and a unique WLA is assigned to NCDOT.	1. Annually, Permit Years 1-5	1. Number of applicable TMDLs	1	2	Hills Bay Embayment (White Oak River), 20-(18)c4 and Boathouse Creek, 20-31 have been identified as the two EPA-approved TMDLs which name NCDOT as a significant contributor of the pollutant of concern and assign the Department a unique WLA. These TMDLs are included in the report for the Southeast White Oak River Embayments. In 2022 EPA approved TMDLs for Turkey Ck and Virginia Ck in Carteret Co. These TMDLs did assign NCDOT a unique WLA but did not label NCDOT as a significant contributor. NCDOT agrees with this assessment as the Department's WLA is a very small fraction of the total TMDL and is also a small fraction of the Margin of Safety. So these two 2022 TMDLs were not deemed falling under section 3.8.1 of the permit.
73	3.8.1 For EPA-approved TMDLs that specifically name the Permittee as a significant contributor and assign a unique WLA to the Permittee that is separate from other sources, develop and implement water quality improvement strategies.	2. Develop a site-specific water quality improvement strategy.	2. As needed, Permit Years 1-5	2. Number of new site-specific strategies developed within permit year / New strategy in development/ Provisions of 3.8.1 were not triggered	1	No new TMDLs issued	Turkey Creek and Virginia Creek TMDLs were issued during the reporting period but NCDOT was not identified as a significant contributor. A WLA was calculated but was significantly lower than the margin of safety.
73	3.8.1 For EPA-approved TMDLs that specifically name the Permittee as a significant contributor and assign a unique WLA to the Permittee that is separate from other sources, develop and implement water quality improvement strategies.	3. Describe implemented improvement strategies in the annual report. Implement actions described in site-specific water quality improvement strategies	3. Annually, Permit Years 1-5	3. Number of site-specific improvement strategies under which implementation activities took place	1	0	There were no TMDLs approved by EPA during this reporting period which trigger the development of site-specific improvement strategies.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
74	Address TMDLs where NCDOT is not assigned a unique WLA						
74	3.8.2 For approved TMDLs that have no EPA-approved WLA which specifically assigns a unique WLA to the Permittee, evaluate strategies and tailor and/or expand BMPs within the scope of this permit to reduce the TMDL pollutant(s) of concern in the named watershed(s) to the maximum extent practicable (MEP).	1. For new projects, evaluate implementation of the BMP Toolbox and other design guidance tools to address water quality pollutants of concern to the MEP.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	The PCSP Compliance memo titled "PCSP_Compliance_Memo_TermV_PY1_wAttachments_20230317"
74	3.8.2 For approved TMDLs that have no EPA-approved WLA which specifically assigns a unique WLA to the Permittee, evaluate strategies and tailor and/or expand BMPs within the scope of this permit to reduce the TMDL pollutant(s) of concern in the named watershed(s) to the maximum extent practicable (MEP). (BMP 56-58)	2. To address existing assets, develop procedures to apply protocols for identifying high-priority areas under the TS4 Operation and Maintenance Program to TMDL watersheds.	2. Permit Year 4	2. Yes/No	4	NA	Not applicable until Permit Year 4.
74	3.8.2 For approved TMDLs that have no EPA-approved WLA which specifically assigns a unique WLA to the Permittee, evaluate strategies and tailor and/or expand BMPs within the scope of this permit to reduce the TMDL pollutant(s) of concern in the named watershed(s) to the maximum extent practicable (MEP).	3. Develop protocols for selecting BMPs to address high-priority areas in TMDL watersheds, including prioritizing specific areas with the highest potential impacts.	3. Permit Year 4	3. Yes/No	4	NA	Not applicable until Permit Year 4.
74	3.8.2 For approved TMDLs that have no EPA-approved WLA which specifically assigns a unique WLA to the Permittee, evaluate strategies and tailor and/or expand BMPs within the scope of this permit to reduce the TMDL pollutant(s) of concern in the named watershed(s) to the maximum extent practicable (MEP).	4. Develop training on standard protocols for identifying and addressing high-priority areas in TMDL watersheds.	4. Permit Year 4	4. Yes/No	4	NA	Not applicable until Permit Year 4.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
74	3.8.2 For approved TMDLs that have no EPA-approved WLA which specifically assigns a unique WLA to the Permittee, evaluate strategies and tailor and/or expand BMPs within the scope of this permit to reduce the TMDL pollutant(s) of concern in the named watershed(s) to the maximum extent practicable (MEP).	5. Utilize TS4 mapping efforts to support decisions on the identification of high-priority areas and implementation of BMPs to prevent the discharge of litter to surface waters.	5. Permit Year 5	5. Yes/No	4	NA	Not applicable until Permit Year 4.
75	Describe any strategies and tailored and/or expanded measures						
75	3.8.3 Describe any strategies and tailored and/or expanded measures in the TS4SMP.	1. Strategies implemented within the reporting period are described in the annual report.	1. Annually, Permit Years 1-5	1. Yes/No	1	Yes	The PCSP Compliance memo titled "PCSP_Compliance_Memo_TermV_PY1_wAttachments_20230317." This memo demonstrates compliance in part with 3.8.3 in regard to strategies, following the PCSP for new projects.
Research Program							
76	Facilitate Research						
76	3.9.1 Implement a Research Program to facilitate research to enhance or improve existing practices or develop new methods or processes to meet TS4 permit requirements.	1. Maintain a Research Plan addressing research needs for the permit requirements.	1. Continuously, Permit Years 1-5	1. Yes/No	1	Yes	NCDOT maintains its Research Plan. The plan is located in the HSP document library on SharePoint.
76	3.9.1 Implement a Research Program to facilitate research to enhance or improve existing practices or develop new methods or processes to meet TS4 permit requirements.	2. Assess needs and identify potential research projects.	2. Annually, Permit Years 1-5	2. Yes/No	1	Yes	Internal due date is dependent on R&D Unit and varies each year. HSP staff assessed needs and identified potential research projects and submitted its research ideas (HU = 2 submittals, REU = 1 submittal).
76	3.9.1 Implement a Research Program to facilitate research to enhance or improve existing practices or develop new methods or processes to meet TS4 permit requirements.	3. Evaluate the Research Plan to determine if updates are needed.	3. Annually, Permit Years 1-5	3. Yes/No	1	Yes	NCDOT evaluated the Research Plan and determined that only minor updates are needed.
76	3.9.1 Implement a Research Program to facilitate research to enhance or improve existing practices or develop new methods or processes to meet TS4 permit requirements.	4. Update the Research Plan	4. As needed	4. Needed and updated / Needed and not updated / Not needed	1	Not needed	NCDOT evaluated the Research Plan in June 2023 and determined that only minor updates are needed. NCDOT plans to make the updates in PY2.

Program Area BMPs, Measurable Goals, Schedule for Implementation, and Annual Reporting Metrics							
BMP No.	Permit Reference and Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	Permit Year	Annual Reporting Metric Output	Reporting Comment
77	Conduct Research						
77	3.9.2 Conduct research with faculty and staff at state universities or other independent institutions that result in impartial quantitative assessment of stormwater from NCDOT-permitted activities and/or measure structural BMP effectiveness	1. Perform or sponsor research in accordance with Research Plan.	1. Continuously, Permit Years 1-5	1. Number of active research projects related to the permit	1	9	NCDOT HU has 4 active HSP research projects and REU has 5 active HSP projects; for a total of 9 HSP related research projects. NCDOT HSP staff perform research projects in accordance with its Research Plan. Active research projects are tracked and maintained on NCDOT's R&D portal.
77	3.9.2 Conduct research with faculty and staff at state universities or other independent institutions that result in impartial quantitative assessment of stormwater from NCDOT-permitted activities and/or measure structural BMP effectiveness	2. Complete the Research and Development Close Out Implementation Plan form for NCDOT's Research and Development Program.	2. As needed, Permit Years 1-5	2. Yes, form completed / Form not completed / No new research completed this year	1	No new research completed this year	NCDOT HSP staff complete the Research and Development (R&D) Close Out Implementation Plan forms for NCDOT's R&D Program when projects are completed.

3.0 Falls and Jordan Lake GREEN Programs

Jordan Lake Rules:

15A North Carolina Administration Code

02B .0262-.0273, .0311, and

NC Session Laws 2009-216, 2009-484

Falls Lake Rules:

15A NCAC 02B .0275—.0282

Requirements

Watershed	Rule Requirements
Jordan Lake	<p>Identify NCDOT stormwater outfalls from Interstate, US, and NC primary routes.</p> <p>Identify and eliminate illegal discharges into the NCDOT's stormwater conveyance system.</p> <p>Implement a Nutrient Management Education Program for NCDOT staff and contractors engaged in the application of fertilizers on highway rights of way.</p> <p>Meet riparian buffer and diffuse flow requirements on new and widening road projects.</p> <p>Achieve sub-watershed specific nutrient reduction targets on new non-road development projects using NCDOT-JLSLAT or through another calculation method that is acceptable to NCDWR.</p> <p>Provide an estimate of, and plans for offsetting, nutrient load increases from lands developed subsequent to the baseline period but prior to implementation of the new development program (currently stayed, see below).</p>
Falls Lake	<p>Identify NCDOT stormwater outfalls from Interstate, US, and NC primary routes.</p> <p>Identify and eliminate illegal discharges into the NCDOT's stormwater conveyance system.</p> <p>Implement a Nutrient Management Education Program for NCDOT staff and contractors engaged in the application of fertilizers on highway rights of way.</p> <p>Meet riparian buffer and diffuse flow requirements on new and widening road projects.</p> <p>Achieve nutrient reduction targets on new non-road development projects using NCDOT-JLSLAT or through another calculation method that is acceptable to NCDWR.</p> <p>Provide an estimate of, and plans for offsetting, nutrient load increases from lands developed subsequent to the baseline period but prior to implementation of the new development program.</p> <p>Implement six stormwater retrofit BMPs per year in the Falls Lake watershed to reduce nutrient loads until NCDOT's existing development load reduction requirements are achieved, or the lake's designated uses are restored.</p>

Program Overview

The NC Environmental Management Commission (EMC) adopted permanent nutrient management rules for Jordan Lake and Falls Lake which became effective in 2009 and 2011, respectively. In response, NCDOT initiated the Guided Reduction of Excess Environmental Nutrients (GREEN) Program to integrate and enhance NCDOT's stormwater and nutrient management practices and to support NCDOT's compliance with the Jordan and Falls Lake Rules.

The Jordan Lake GREEN Program outlines the Department's approach to managing nutrients from new development, including new and widened roads and new non-road developments. The EMC approved the Jordan Lake GREEN Program on November 8, 2012. The Rules also include retrofit requirements to reduce nutrient loads from existing NCDOT development; however, various Session Laws have delayed this requirement.

The Falls Lake GREEN Program addresses the Department's approach to managing nutrients from new and existing developments consisting of new and widened roads, new non-road development, and existing road and non-road development. The EMC approved the Falls Lake GREEN Program on January 9, 2014. Among other things, these regulations require NCDOT to implement new training for staff and contractors, calculate nutrient loads resulting from projects and devise controls to reduce the increased loads. A notable requirement of the Falls Lake rules is the mandate for the Department to construct six retrofits per year in the watershed or implement equivalent nutrient load reduction measures.

Accomplishments

Falls Lake - In this permit year NCDOT visually monitored the stormwater gravel wetland constructed in 2022 for vegetation establishment and clogging issues. Vegetation was well established by June 2023, and no clogging issues were observed as is a potential concern with these types of devices in early establishment. NCDOT is developing gravel wetland design specifications to be included in NCDOT's BMP Toolbox. NCDOT is also pursuing research funding to perform analytical monitoring on the gravel wetland as this is NCDOT's first constructed gravel wetland and one of only a handful known to existing in the state. NCDOT conducted a design workshop and field visit for NCDOT Hydraulics Unit design staff in March 2023. Abstracts to present on the gravel wetland were submitted and accepted for presentation at the 2023 National LID Conference and WaterJAM 2023.

In 2022 NCDOT completed a Nature-based Stormwater Solutions (NBSS) Action Plan for the Falls Lake watershed. The NBSS Action Plan includes a detailed desktop and field search for NBSS retrofit opportunities. The NBSS Action Plan focuses on the use of remnant NCDOT parcels to treat runoff and reduce nutrient loads to the watershed. Soil improvement BMPs were identified as potential practices for implementation. In this permit year NCDOT completed the carbon footprint analysis, which found, in general, NBSS's which minimize the need for significant grading, concrete components, and hauling construction materials, had a lower carbon footprint compared to traditional stormwater BMP construction.

In this permit year NCDOT began work to identify sites to install stabilized roadside infiltration zones. Stabilized roadside infiltration zones involve conversion of eroded roadside shoulder pull-off areas in

stabilized vegetated infiltration zones. These eroded roadside shoulder pull-off areas are typically highly compacted with minimal infiltration. In support of this practice, NCDOT has completed the evaluation of available products, materials, and design standards. NCDOT has also identified numerous potential sites for implementation. From these, ten sites have been selected for initial field evaluations. –NCDOT will be selecting sites for stabilization practice from field evaluations and scheduling for design and construction.

Jordan Lake One Water - Jordan Lake One Water (JLOW) is a partnership to facilitate cooperation and integrated water resource management in the Jordan Lake watershed. The group is comprised of local governments, state government, conservation groups, universities, water utilities, agriculture, and private industry stakeholders interested in sharing the cost of water quality and quantity improvements in order to realize watershed-wide social, economic, and environmental benefits. JLOW activities are presently being coordinated with the assistance of the Triangle J Council of Governments. In this permit year NCDOT became a formal member of JLOW and serves on the initial Board of Directors. Also, JLOW successfully filed for incorporation as a NC non-profit organization, adopted a set of bylaws and an ethics policy. In PY2 NCDOT will be leading a JLOW working group to develop Jordan Lake nutrient management strategy rule concepts, in partnership with NCDEQ, to allow for JLOW activities to support compliance with future Jordan Lake rule requirements.

GREEN Training - NCDOT continues to offer online training videos, first introduced in 2016, to support staff and contractors when using the NCDOT nutrient accounting tool, NCDOT Jordan Lake Stormwater Nutrient Loading Accounting Tool (NCDOT-JLSLAT), on new non-road development projects. These videos are available on the NCDOT YouTube channel. In PY2 Jordan and Falls Lake rule requirement refresher training is planned for staff in NCDOT's Facilities Management Unit who coordinate delivery of most non-road development projects.

New Non-Road Development Projects – In this permit year NCDOT did not complete any new projects in the Jordan Lake or Falls Lake watersheds that would be subject to the non-road development rules.

Litter Removal Support - In addition to its state-wide litter abatement programs, as noted in the BMPs for Public Involvement and Participation, and Litter Management section of this report, NCDOT continues to provide material support to the Clean Jordan Lake organization for their litter collection events for Jordan Lake.

Rehabilitation of Existing Stormwater Controls - NCDOT's SCMS database is used to track inspection and maintenance of SCMs statewide, including those located within the Jordan Lake and Falls Lake watersheds. NCDOT Division Roadside Environmental Engineers maintain SCMs in the Jordan and Falls Lake watersheds. In this permit year, one SCM (dry detention basin) located within the Falls Lake watershed that had been damaged from a vehicular collision was repaired in August 2022 and now functions as designed. Additionally, nine SCMs (five within Falls Lake watershed and four within Jordan Lake watershed) have significant rehabilitation needs. Six of these SCMs are scheduled to be repaired and three SCMs are being evaluated by HU for potential retrofit to improve performance.

Considerations for Term V Permit Year 2

NCDOT will continue to implement the Department's GREEN Program and achieve requirements set forth for new and existing (Falls GREEN, only) road and non-road development in the Jordan Lake and Falls Lake watersheds. Emphasis will be placed on implementing the NBSS Action Plan in the Falls Lake watershed. NCDOT will continue to partner with NCDWR on nutrient reduction strategies and to engage staff and contractors on nutrient-related requirements and watershed goals through educational tools and training opportunities.

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Appendix A
I-77 Mobility Partners Stormwater
Management Program Report



Stormwater System Report

Date of Report:	Scope of Report:	Area(s) Reported:
June 1, 2023	I-77 Mobility Partners Stormwater Management Program	I-77 Mobility Partners Facility Stormwater System & I-77 Corridor

I Report

1 Section – Overview/Summary

In accordance with I-77 Mobility Partners Stormwater Management Program and in compliance with the Comprehensive Agreement, I-77 Mobility Partners herein provides its annual report under NCDOT’s NPDES permit. This report is for a 26-mile portion of the I-77 corridor and an approximately one-third mile portion of I-277 in the City of Charlotte, and in Mecklenburg and Iredell Counties, North Carolina. From approximately MM 11 to MM 37 on I-77 both northbound and southbound. In addition, this report includes Administration & Maintenance building (Facility) which became operational on November 1, 2018 located at:

8015 W. WT Harris Blvd.
Charlotte, NC 28216

2 Section – Illicit Discharge Detection and Elimination Plan (IDDEP)

No illicit charges were detected, and no dumping occurred during the report period June 1, 2022, to May 31, 2023. I-77 is awaiting scheduling confirmation from NCDOT on IDDEP Training.

3 Section – Post-Construction Controls

I-77 MP has inspected all the Stormwater Controls (SC) in the Project, as shown in the table below, and they were all working as designed as meeting all requirement as per the approved Stormwater Management Program (SMP) in accordance with NCDOT’s NPDES permit.

Asset ID	Inspection Date	Location	Results of the inspection	Maintenance Required Description
HSB000001	02/16/2023	77,NB,RS,MM,27.8	Pass	Removal of undesirable vegetation
HSB000002	02/16/2023	77,NB,RS,MM,28.5	Pass	N/A
HSB000003	02/16/2023	77,SB,RS,MM,28.9	Pass	Removal of undesirable vegetation
HSB000004	02/16/2023	77,NB,RS,MM,29.0	Pass	Removal of undesirable vegetation
HSB000005	02/16/2023	77,SB,RS,MM,29.3	Pass	N/A
HSB000006	02/16/2023	77,NB,RS,MM,29.3	Pass	Removal of undesirable vegetation
HSB000007	02/16/2023	77,NB,RS,MM,30.9	Pass	Removal of undesirable vegetation
HSB000008	02/16/2023	77,NB,RS,MM,31.0	Pass	N/A
HSB000009	02/16/2023	77,NB,RS,MM,31.3	Pass	Removal of undesirable vegetation
HSB000010	02/16/2023	77,SB,RS,MM,31.5	Pass	Removal of sediment and debris
HSB000011	02/16/2023	77,NB,RS,MM,31.7	Pass	N/A
HSB000012	02/16/2023	77,NB,RS,MM,32.1	Pass	N/A
HSB000013	02/16/2023	77,NB,RS,MM,32.5	Pass	N/A
HSB000014	02/16/2023	77,NB,RS,MM,32.7	Pass	Removal of undesirable vegetation
HSB000015	02/16/2023	77,NB,RS,MM,34.0	Pass	Removal of undesirable vegetation
HSB000016	02/16/2023	77,NB,RS,MM,34.5	Pass	Removal of undesirable vegetation
HSB000017	02/16/2023	77,NB,RS,MM,36.1	Pass	N/A
STR-00565	03/08/2023	77,NB,RS,MM,16.9	Pass	N/A
STR-001553	02/16/2023	77,NB,RS,MM,24.5	Pass	N/A
STR-001558	02/16/2023	77,NB,RS,MM,24.5	Pass	N/A
STR-001599	02/16/2023	77,NB,RS,MM,24.5	Pass	N/A
STR-001560	02/16/2023	77,NB,RS,MM,24.5	Pass	N/A
STR-001704	02/16/2023	77,SB,RS,MM,25.0	Pass	N/A
STR-001706	02/16/2023	77,SB,RS,MM,25.0	Pass	N/A
RCP-000730	03/08/2023	77,NB,RS,MM,19.9	Pass	N/A



Stormwater System Report

4 Section – Program for Encroachment

Encroachment is no longer a required section based on the new NPDES permit. If required, encroachments are responsibilities of NCDOT's, all encroachments are managed by NCDOT's Division Office.

5 Section – Construction Program

There are no construction activities ongoing within the Project under I-77 MP responsibility. Final Completion for the Project was achieved on August 3rd of 2021. Nonetheless, within the I-77 corridor, there are construction projects managed by NCDOT that are adjacent to the I-77 MP responsibility limits, such as:

- I-277 Rehabilitation Works
- Exit 23 Gilead Rd Interchange
- I-85 Resurfacing Works
- I-77 South Rehabilitation Works.

I-77 MP assumed all procedures are following NCDOT Manuals and Guidelines in regard to Stormwater Controls and Erosion Controls in those projects.

6 Section – Industrial Facilities

I-77 Mobility Partners has developed the Stormwater Pollution Prevention Plan (SPPP) in accordance with NCDOT's NPDES permit for the Administration and Maintenance building (Facility).

I-77 Mobility Partners maintenance team successfully completed the SPPP training. In addition, the SPPP best management practices are currently being implemented.

II	Conclusion
	Overall, the I-77 Mobility Partners Stormwater Management Program is implemented, and it is being inspected and maintained following all procedures as established by NCDOT Manuals and Guidelines.

III	Point of contact person
	Updated HSE point of contact person from I-77 Mobility Partners: Lyndi Boone lboone@i77partners.com

HSE Manager: Lyndi Boone	Signature: <i>Lyndi Boone</i>	Date: 6/01/2023
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Revised and Resubmittal Information:

HSE Manager: Lyndi Boone	Signature: <i>Lyndi Boone</i>	Date: 7/27/2023
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