



Richland County
Stormwater Management Plan (SWMP)

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Prepared in accordance with SCDHEC Permit #SCS400001

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List of Acronyms and Abbreviations

BMP	Best Management Practice
CAP	Corrective Action Plan
City	City of Forest Acres
County	Richland County
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
ERP	Enforcement Response Plan
FY	Fiscal Year
GI	Green Infrastructure
HOA	Homeowner Association
IDDE	Illicit Discharge Detection and Elimination
IDID	Illicit Discharges and Improper Disposal
LCP	Larger Common Plan
LID	Low Impact Development
NOT	Notice of Termination
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm System
NPDES	National Pollutant Discharge Elimination System
PHF	Pesticide, Herbicide, and Fertilizers
POC	Pollutant of Concern
POTW	Publicly Owned Treatment Work
PSD	Public Sewer District
SCDHEC	South Carolina Department of Health and Environmental Control
SCDOT	South Carolina Department of Transportation
SOP	Standard Operating Procedure
SPCC	Spill Prevention, Control, and Countermeasure
SWMP	Stormwater Management Plan
SWP3	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
Town	Town of Arcadia Lakes
UA	Urbanized Area
WMU	Watershed Management Unit
WQBEL	Water Quality Based Effluent Limitation
WQMS	Water Quality Monitoring Station

Richland County, South Carolina

NPDES Stormwater Management Plan (SWMP)

1.0 Introduction

This Stormwater Management Plan (SWMP) is designed to reduce the discharge of pollutants from Richland County's Municipal Separate Storm Sewer System (MS4) to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate requirements of the Clean Water Act. The contents are expected to change with time due to the iterative process of developing the SWMP recognized by the Environmental Protection Agency (EPA) and the South Carolina Department of Health and Environmental Control (SCDHEC). This document is meant to be a living document that will be revisited on an annual basis to reflect accomplishments, potential revisions to program components, and additions of other activities or expanded efforts.

This SWMP addresses the requirements of the National Pollutant Discharge Elimination System (NPDES) Permit for Discharge to Surface Waters, Permit No. SCS400001, effective July 1, 2016 and expiring June 30, 2021.

This SWMP is organized into the following Sections:

- Introduction: This section provides a description of the purpose of the SWMP document, how updates to the document will be made, a background on Richland County's MS4 permit history, and the applicable stormwater contacts.
- Stormwater Management Plan (SWMP): This Section discusses items that are required by the Permit including contents required in the SWMP, obtaining legal authority, implementing and tracking enforcement procedures, what the annual reports will include in general, and the schedule for several SWMP requirements.
- SWMP Requirements: This Section includes details on each of the ten SWMP requirements. Each program element includes the following tables:
 - Permit Requirements: Table provides a brief summary of the permit requirements
 - BMP table: Table includes the action items that the County will perform to meet the requirements of the Permit. This includes the proposed BMP, the responsible departments and staff to implement the BMP, and the implementation schedule and frequency for the BMP. The section number and page number from the Permit is included with each requirement.
 - Annual Reporting: Table summarizes what information needs to be recorded for Annual Reporting purposes.
- Monitoring: This Section discusses requirements for Water Quality Based Effluent Limitations (WQBELs) and other monitoring requirements related to impaired Water Quality Monitoring

Stations (WQMSs), Total Maximum Daily Loads (TMDLs), and other sensitive waterbodies in Richland County's MS4 area.

- Fiscal Analysis: This Section gives a general overview of the County's MS4 financial resources and sources for stormwater program funds. It also lists action items that will be completed during the permit term.

It should be noted that *italicized text* within the SWMP indicates language that was copied directly from the MS4 permit.

Updates to the SWMP will be included in Table 1 and will include what Sections were update, who made the changes, and who approved the updated SWMP. Changes will be made according to the schedule defined in Table 34.

1.1 Background

Richland County (County) has been designated by the EPA as an MS4 having an unincorporated Urbanized Area (UA) with a population of greater than 100,000 and less than 249,999, and was thus required to obtain coverage under a Phase I NPDES permit. Within Richland County are eight distinct jurisdictions: Fort Jackson (a United States Army Training Facility), the South Carolina Department of Transportation (SCDOT), the Cities of Columbia and Forest Acres, and the Towns of Irmo, Blythewood, Arcadia Lakes and Eastover.

First Permit Cycle

The first draft of what would become Richland County's first NPDES permit identified nine co-permittees, including the eight jurisdictions listed above. Richland County expressed its concerns to SCDHEC regarding what it felt was an excessive number of co-permittees, and the difficulties it anticipated in fulfilling the permit requirements across so many jurisdictions. After several meetings between Richland County and SCDHEC, and the submission of comments on the draft permit from many of the co-permittees, SCDHEC issued the final NPDES permit for Richland County which identified no co-permittees.

In March of 2000, SCDHEC granted Richland County its Phase I NPDES permit (SCS400001) and it became effective on April 16, 2000. This permit allowed for Richland County to discharge storm water from its MS4, as long as it remained in compliance with the terms of the permit, including effluent limitations, monitoring requirements and other conditions. The preliminary renewal application, for this permit, was submitted to SCDHEC on October 18, 2004. This application was considered incomplete due to the lack of required monitoring data. Richland County conducted sampling at five stations for three wet weather events from January through June 2005. This data was submitted to SCDHEC for consideration in the permit renewal; however, this data was not available before the permit expired in April 2005.

On June 16, 2005, Richland County received a Notice of Alleged Violation/Notice of Enforcement Conference. The notice cited violations of both the Pollution Control Act and Water Pollution Control Permits. The Pollution Control Act was violated due to the discharge by Richland County of both organic and inorganic matter into the environment in a manner not in compliance with a SCDHEC permit. The

Water Pollution Control Permits were violated due to the failure of Richland County to submit a complete renewal application at least 180 days prior to the expiration date of the existing permit, and the failure of Richland County to comply with all the requirements of its first permit.

The Enforcement Conference was held on July 6, 2005 and resulted in a Consent Order requiring the creation of a Corrective Action Plan (CAP) by Richland County to address the deficiencies found during the December 16-17, 2003 audit by SAIC and EPA. Among other things, the CAP established a plan for the development and implementation of the Wet Weather Monitoring Program, and set a schedule by which the County would complete the required monitoring in each Watershed Management Unit (WMU) within the County's MS4. Per the CAP, the wet weather monitoring was to be completed in WMUs 502, 301, and 202 during Year 1 of Richland County's second permit term. In addition, the Ambient Water Quality Monitoring Program was implemented during year two of the second permit term. Once the CAP was fully developed and approved by SCDHEC, the County's second permit was issued on August 11, 2006 and became effective on September 11, 2006.

Second Permit Cycle

The County's second permit expired on September 10, 2011. A permit re-application for issuance of the 3rd five-year permit was submitted to SCDEHC in March 2011. Richland County's 3rd permit became effective July 1, 2016. The final permit issued by SCDHEC did not address many of the County's concerns outlined in the County's comments prepared during the public comment period for the permit. In late 2016, the County engaged in detailed correspondence with SCDHEC to gain a better understanding of SCDHEC's expectations of the new permit requirements. The County especially wanted resolution with the permit items that were deemed to be potentially unattainable. After much correspondence both parties agreed that the intent of the permit is to develop, implement, and enforce a SWMP designed to reduce the discharge of pollutants from the MS4 to the maximum extent practicable (MEP). In the response email received by SCDHEC on 12/16/2016 it states that the permit requirements the County had concerns with should be "viewed through the lens of MEP, and are not 100% absolutes as they would first appear." The response letter further goes on to state that "Part II of the permit, the SWMP, is predicated on the MEP standard...and if implemented to the MEP, pollutant loads from urban runoff discharges should not have a deleterious effect on receiving water quality." The SWMP was developed and is updated annually per the terms of the permit with the overall goal of reaching the MEP standard (See Section 2.1.1 for the County's stance on the MEP standard.

Co-permittees

The permit identifies two co-permittees: the Town of Arcadia Lakes (Town) and the City of Forest Acres (City). The Town and City are separate political jurisdictions located entirely within Richland County. Due to the small sizes of both the Town and the City along with the significant requirements of NPDES Phase II, it was determined that it would be more efficient to have Richland County fulfill the Phase II requirements within the Town and City's jurisdictions. Two Intergovernmental Agreements were established: one between Richland County and the Town of Arcadia Lakes, the other between Richland County and the City of Forest Acres. These Agreements can be found in Appendix B.

1.2 Contacts List

Table 2: Permit Contacts

Name Title	Mailing Address	Contact Information
Gerald Seals Richland County Administrator	Richland County PO Box 192 Columbia, SC 29202-0192	Phone: (803) 576-2050 Fax: (803) 576-2137
Ismail Ozbek, P.E. Richland County Public Works Director	Richland County Department of Public Works 400 Powell Road Columbia, SC 29203	Phone: (803) 576-2401 Fax: (803) 576-2499 Email: Ozbeki@rcgov.us
Synithia Williams Richland County Stormwater General Manager	Richland County Department of Public Works 400 Powell Road Columbia, SC 29203	Phone: (803) 576-2465 (Office) (803) 309-9190 (Mobile) Fax: (803) 576-2499 Email: Williamss3@rcgov.us
Mark Williams City of Forest Acres City Administrator	5209 North Trenholm Road Columbia, SC 29260-4801	Phone: (803) 782-9475 Email: mwilliams@forestacres.net
Honorable Mark W. Huguley Town of Arcadia Lakes Mayor	6911-2 North Trenholm Road Columbia, SC 20206	Phone: (803) 782-2272 Email: townofarcadial@sc.rr.com

2.0 Stormwater Management Plan (SWMP)

2.1.1 Requirements of the NPDES MS4 General Permit

Richland County will implement this SWMP to provide the necessary controls and implementation schedules to effectively prohibit the discharge of non-stormwater into the MS4 and to reduce the discharge of pollutants from the MS4 to the MEP.

Maximum Extent Practicable (MEP)

MEP is defined in the permit as, “the technology-based discharge standard for Municipal Separate Storm Sewer Systems established by CWA Sec. 402(p)”. Section 402(p) does not provide a precise definition of MEP. The absence of a precise definition of MEP allows for flexibility on the part of the County as they further develop and implement their programs. The MEP standard does not necessarily involve the same criteria for each application as it relates to meeting permit requirements; it is intended to address projects or actions on an individual basis considering each of their specific circumstances and purpose. Under the EPA guidelines, practicable is defined as, “available and capable of being done after taking into consideration cost, existing technology and logistics in light of overall project purposes (40 CFR 230.10(a)(2)).”

For example, some factors specific to the County that must be considered when determining if MEP standards are being met include safety, economic development, environmental impacts, engineering aspects, financial viability, local land use plans, and consistency with planned growth and development plans.

In summary, aspects of the County’s Storm Water Management Program may be evaluated on a case-specific basis against the MEP standard, and its implementation may vary widely based on the considerations/variables described above.

2.1.2 SWMP Development

The County will revise and update the written SWMP document and submit the SWMP to the SCDHEC Bureau of Water by January 2, 2017.

2.1.3 Contents of the SWMP

The County will continue the implementation of a comprehensive SWMP in compliance with NPDES Phase I and Phase II stormwater requirements, including pollution prevention measures, treatment or removal techniques, stormwater monitoring, use of legal authority, and other appropriate means to control the quality of stormwater discharged from the MS4. [II.A, pg 3]

2.1.4 Requirement to Develop Adequate Legal Authority

The County will ensure legal authority to control discharges to and from those portions the MS4 over which it has jurisdiction eighteen months from the effective date of this permit. This legal authority may be a combination of statute, ordinance, permit, contract or order with adequate existing legal authority to accomplish:

- *Control the contribution of pollutants to the MS4 by illicit discharges or improper disposal and identify stormwater discharges associated with industrial activity within the permitted areas, their compliance status with NPDES regulations, and the quality of stormwater discharged from sites of industrial activity;*
- *Prohibit illicit discharges to the MS4;*
- *Control the discharge of spills and the dumping or disposal of materials other than stormwater (e.g. industrial and commercial wastes, trash, used motor vehicle fluids, leaf litter, grass clippings, animal wastes, etc.) into the MS4;*
- *Control the contribution of pollutants from one portion of the MS4 to another;*
- *Require compliance with conditions in ordinances, permits, contracts or orders;*
- *Carry out, or require, all inspection, surveillance and monitoring procedures necessary to determine compliance with permit conditions; and,*
- *Provide incentives, or disincentives to encourage measures in the community that reduce non-point source pollution. [II.F, pg 43]*

A certification statement has been included in this SWMP that certifies that Richland County has taken the necessary steps to obtain and maintain full legal authority to implement and enforce each of the requirements contained in the NPDES Permit for Discharge to Surface Waters.

2.1.5 Enforcement Measures and Tracking

The County will implement an enforcement response plan (ERP) by July 1, 2017, and revise as necessary. *The ERP will set out the County's potential responses to violations and addresses repeat and continuing violations through progressively stricter responses as needed to achieve compliance. [II.1.1, pg 46]*

2.1.5.2 Enforcement Tracking

The County will track instances of non-compliance either in hard-copy files or electronically. [II.1.2, pg 46]

2.1.5.3 Recidivism Reduction

The County will summarize inspection results by consuetudinary violators and include incentives, disincentives, or an increased inspection frequency at the operator’s sites. [II.1.3, pg 46]

2.1.6 Annual Report Requirements

Richland County will prepare an annual report according to the schedule included in Part VI of the permit and will include the following sections:

- *Contacts List*
- *SWMP Evaluation*
- *Summary Table for SWMP Annual Activities*
- *Narrative Report to Discuss SWMP Elements*
- *Monitoring Section to Discuss Progress and Results of the Monitoring Programs*
- *Appendices [VI.A.3, pg 71]*

The County will participate in an annual review of the current SWMP in conjunction with preparation of the Annual Report. The County may modify the SWMP during the life of the permit in accordance with the procedures listed in Section II.H.2 of the permit. [II.H.2, pg 44]

Table 3: SWMP Requirements

SWMP REQUIREMENTS			
Develop and Implement SWMP	Not Started: <input type="checkbox"/> In Progress : <input checked="" type="checkbox"/> Completed: <input type="checkbox"/>		
	Section: II.B		
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
Revise and implement written SWMP document and submit the SWMP to SCDHEC Bureau of Water.	Complete by: April 1, 2017	Once	Stormwater Management
Develop Enforcement Response Plan (ERP)	Not Started: <input type="checkbox"/> In Progress : <input type="checkbox"/> Completed: <input checked="" type="checkbox"/>		
	Section: II.I		
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
Implement an ERP.	Complete by: July 1, 2017	Once	Stormwater Management
Update Stormwater Management Plan	Not Started: <input type="checkbox"/> On-going : <input checked="" type="checkbox"/> Completed: <input type="checkbox"/>		
	Section: 4.1.10		
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
Review and revise the SWMP document to keep it up to date during the term of the permit.	Throughout the Permit Term	Annually	Stormwater Management

2.1.7 Stormwater Management Program Element Requirements

The County's SWMP will include the following information for each of the ten SWMP requirements:

- Best management practices (BMP) that the County or another entity will implement for each of the stormwater management program elements
- Goals for each of the BMP including, as appropriate, the months and years in which the County will undertake required actions, including interim action items and the frequency of the action
- Person, or persons, responsible for implementing or coordinating the BMP for the County's SWMP

2.2 SWMP Requirements

In compliance with the County's permit requirements; this SWMP includes a description of the ten SWMP requirements and details on the development and implementation of the plan to address these requirements.

Each element includes a Permit Requirements table, a BMP table, and an Annual Reporting table. A brief summary of the permit requirements is included in the Permit Requirements table. The details on each requirement are in the BMP table and include the proposed BMP, the responsible departments and staff to implement the BMP, and the implementation schedule and frequency for the BMP. These tables are followed by a table that summarizes what information needs to be recorded for Annual Reporting purposes.

A summary of the SWMP requirement schedule is included in Appendix A of this document.

2.2.1 Structural Controls and Stormwater Collection System Operation

2.2.1.1 Permit Requirements

In order to meet the requirements of the Structural Controls and Stormwater Collection System Operation, Richland County must continue the proper operation and maintenance of their structural stormwater controls to improve water quality. The County utilizes an Excel spreadsheet to track their stormwater activities, when applicable, and tracks structural control maintenance using the One Stop system. The County has continued to maintain a BMP list and all associated maintenance activities. Table 4 lists a summary of the permit requirements for this element.

Table 4: Structural Controls and Stormwater Collection System Operation Permit Requirements

II.B.1.a.i Maintain an internal record keeping system to track inspections and maintenance activities performed during the permit term.
II.B.1.a.ii Provide for maintenance logs and identify specific maintenance activities for each class of control.
II.B.1.a.iii Demonstrate how pollutants from private conveyances (including floatables) will be controlled.
II.B.1.a.iv. Implement and modify, when applicable, guidance on BMP's to ensure the effectiveness of the SWMP with respect to structural and non-structural controls.
II.B.1.a.v Provide an annual training and education program for appropriate employees involved in stormwater inspection, maintenance, pollution prevention and good housekeeping practices.
II.B.1.b Maintain and continue to develop an inventory of all structural control BMPs.
II.B.1.c Develop and implement and operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.
II.B.1.d Maintain database records, inspection documentation, maintenance records, etc. and report on items in each annual report.

2.2.1.2 BMP Implementation

Evaluation of the success of this SWMP requirement will be through analysis of the impact of system operation and maintenance on overall system function. Action Items for each permit requirement were selected for permit compliance and to improve water quality by effectively operating the County's stormwater structural controls and collection systems.

In order to meet the requirements of the Structural Controls and Stormwater Collection System Operation SWMP requirement, the County will implement the following BMPs seen in Table 5.

Table 5: Best Management Practices - Structural Controls and Stormwater Collection System Operation

STRUCTURAL CONTROLS AND STORMWATER COLLECTION SYSTEM OPERATION			
Develop and Revise Documents			
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
<p>Update the assessment forms for stormwater management systems/structures including the following:</p> <ul style="list-style-type: none"> • Pond Inspection Form, • Culvert/Dirt Road Inspection Form, • Ditch Maintenance Inspection Form, and • CCTV Pipe Inspection Form. <p><input type="checkbox"/> NOT STARTED <input type="checkbox"/> ON-GOING <input checked="" type="checkbox"/> COMPLETED SECTION: II.B.1.c.i, pg 5</p>	Complete By: December 31, 2016	Once During Permit Term	Stormwater Management
<p>Develop system maintenance logs including activities for each class of control.</p> <p><input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.1.a.ii, pg 4</p>	Complete By: July 1, 2018	Once During Permit Term	Stormwater Management
<p>Update the Pond, Dirt Road, and One-Stop Program documents (Standard Operating Procedures-SOPs) and create, as necessary:</p> <ul style="list-style-type: none"> • Procedures to track inspections and maintenance activities. • Procedures on how the County will control pollutants from private conveyances (including floatables). • Procedures with items identified in Section II.B.2.k.i-vi. <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.1.a.i, pg 4, II.B.1.b, pg 5, II.B.1.a.iii, pg 5, and II.B.2.k.i-vi, pg 14</p>	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
<p>Continue to utilize the SCDHEC BMP manual and the Richland County Design Standards.</p> <p><input type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input checked="" type="checkbox"/> COMPLETED SECTION: II.B.1.a.iv, pg 5</p>	Complete By: December 31, 2016	Once During Permit Term	Stormwater Management
<p>Develop pollution prevention measures to apply to municipal O&M activities.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.1.c.ii, pg 5</p>	Complete By: January 1, 2018	Once During Permit Term	Stormwater Management
<p>Update contract to require contractors to comply with all of the MS4 stormwater control measures, good housekeeping practices, and facility-specific stormwater management procedures.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.1.c.v, pg 6</p>	Complete By: February 1, 2017	Once During Permit Term	Stormwater Management
Annual Training			
<p>Provide an annual training and education program for employees involved in stormwater inspection, maintenance, pollution prevention, and good housekeeping practices.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.1.a.v, pg 5, II.B.1.c.iv, pg 6, and II.B.5.a.iv, pg 18</p>	Begin within First Year from Effective Date	Annually	Stormwater Management

Inventory			
Develop and maintain an inventory of all structural control BMPs.	Throughout Permit Term	As Needed/ Annually	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.1.b, pg 5</small>			
Assessment and Prioritization of Stormwater Systems			
Assess owned and/or operated stormwater management systems/structures using the assessment forms (see Develop and Revise Documents section above).	Complete By: April 1, 2017	Once During Permit Term	Stormwater Management
<input type="checkbox"/> NOT STARTED <input type="checkbox"/> ON-GOING <input checked="" type="checkbox"/> COMPLETED <small>SECTION: II.B.1.c.i, pg 5</small>			
Prioritize owned and/or operated stormwater management systems/structures based on the results of the assessment.	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.1.c.i, pg 5</small>			
Maintenance of Stormwater Controls			
Develop and implement a schedule for maintenance activities at owned and/or operated stormwater management systems/structures.	Start Date: July 1, 2018	Annually	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.1.c.i, pg 5</small>			
Inspect and maintain County-owned, operated and/or maintained structural stormwater controls and green infrastructure (GI) practices.	Throughout Permit Term	As Necessary	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.1.c.iii, pg 5</small>			
Require inspection and maintenance of HOA ponds. *Remaining structural controls is defined by the County as HOA ponds. These are the only items left after inspecting and maintaining all MS4 and commercially owned structural controls, stormwater collection system, and post-construction BMPs.	Throughout Permit Term	As Necessary on a 25% per year Basis	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.2.k.v, pg 15</small>			
Contractor Oversight			
Provide oversight of contractor activities and ensure that contractors are using appropriate control measures and procedures. (See Maintenance of Stormwater Controls Section above). Ensure stormwater is considered in Penny Tax projects. Continue to hold pre-construction conference before all projects to go over stormwater controls.	Throughout Permit Term	As Necessary	Stormwater Management/ Penny Tax Department/ New Development Division
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.1.c.v, pg 6</small>			

In order to meet the requirements of the Structural Controls and Stormwater Collection System Operation SWMP requirement, the County will record the following items, seen in Table 6, during the permit term to report them in the appropriate annual report(s).

Table 6: Annual Reporting - Structural Controls and Stormwater Collection System Operation

STRUCTURAL CONTROLS AND STORMWATER COLLECTION SYSTEM OPERATION		
Annual Reporting Items		
Action Item(s)	Frequency	Section
Report on the number of items added to the drainage system inventory in the reporting year.	Every Annual Report	II.B.1.d.i, pg 6, II.B.1.d.iv, pg 7
Report on the number of inspection activities performed and scheduled in the reporting year.	Every Annual Report	II.B.1.d.i.a, pg 6, II.B.1.d.iii, pg 7, VI.A.3.c.vi.a, pg 71
Report on the number of maintenance activities performed and scheduled in the reporting year.	Every Annual Report	II.B.1.d.i.b, pg 6, II.B.1.d.iii, pg 7, VI.A.3.c.vi.a, pg 71
Report any QA/QC completed and any field studies conducted for data accuracy during the reported year.	Every Annual Report	II.B.1.d.i.c, pg 6
Report on the maintenance inspection schedule for the next year.	Every Annual Report	II.B.1.d.iii, pg 7
Identify the location of existing major stormwater structural controls, assess the need for additional ones, submit the maintenance log along with the maintenance report, and evaluate the results.	Every Annual Report	II.B.1.d.v, pg 7
Report the number of contractual agreements obtained during the reporting year from others performing installation and maintenance of structural controls.	Every Annual Report	II.B.1.d.vi, pg 7
Assess the accomplishments of the inspection and maintenance program in maintaining the proper operation of the structural controls in an annual evaluation. Pollutant reduction loads are expected. Summarize any modification of the inspection or maintenance activities.	Every Annual Report	II.B.1.d.vii, pg 7
Report the date(s) the annual employee training was held.	Every Annual Report	II.B.1.c.iv, pg 6
Report the number of attendees or attach the personnel sign in sheet from the training(s).	Every Annual Report	II.B.1.c.iv, pg 6

2.2.2 Areas of New Development and Redevelopment

2.2.2.1 Permit Requirements

In order to meet the requirements of the Areas of New Development and Redevelopment, Richland County has developed a comprehensive master plan. The goal of this element is to reduce the discharge of pollutants in stormwater runoff resulting from areas of new development and redevelopment to pre-development levels, to the MEP and to protect water quality.

Table 7: Areas of New Development and Redevelopment Permit Requirements

II.B.2 Implement planning procedures including a comprehensive master plan to develop, implement, and enforce controls to reduce the discharge of pollutants from the MS4 that receive discharges from areas of new development and significant redevelopment after construction is complete.
II.B.2.a Continue to implement existing regulatory mechanisms and revise or modify, as necessary, to ensure that the discharge of pollutants in stormwater runoff resulting from areas of new development and redevelopment is reduced to pre-development levels to the MEP and to protect water quality.
II.B.2.b Establish all requirements necessary to ensure that improvement, or at least, maintenance of the existing quality of water bodies or watersheds will be attained through the use of post-construction stormwater management controls to the MEP.
II.B.2.c Include water quality standards for developers, design engineers, and permittees in the comprehensive master planning process.
II.B.2.d For areas of new development, there shall be no increase in the discharge of pollutants with respect to pre-development levels to the “effective prohibition” and “MEP” standards.
II.B.2.e For areas of significant redevelopment, develop incentives for water quality improvements and provide to the MEP when upgrading components of the MS4 or, when replacing deteriorating components of the MS4 to meet appropriate water quality criteria.
II.B.2.f Describe policy or policy evaluation(s) within the comprehensive master planning process, which incorporates stormwater quality considerations into land use planning, development and redevelopment activities.
II.B.2.g After conducting careful evaluations of water quality monitoring data required in Part V of the Permit along with inspection and maintenance results, include resulting water quality improvements obtained in sensitive waters in pertinent Annual Reports.
II.B.2.h Utilize water quality monitoring results to incorporate water quality considerations into site planning and development activities to achieve water quality improvements to the MEP and to protect water quality.
II.B.2.i.i The County will be responsible for continuing to develop, implement, and enforce a program to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan (LCP) of development or sale that discharge into the MS4. The program must ensure that controls that would prevent or minimize water quality impacts are in place.
II.B.2.i.ii Continue developing and implementing strategies which include a combination of structural and/or non-structural BMPs appropriate for the community.
II.B.2.i.iii Enforce and revise, as necessary, ordinances or other regulatory mechanisms to address post construction runoff from new development and redevelopment projects to the extent allowable under State or local law.
II.B.2.i.iv Continue to ensure adequate long-term operation and maintenance of BMP.
II.B.2.i.v Evaluate and modify, as necessary, the post-construction element. Individual BMP, measurable goals, and responsible persons for the program must be described and include the information listed in Section II.B.2.i.v.a-g.

<p>II.B.2.j Develop, implement, and enforce a program to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a LCP of development or sale that discharge into the County’s MS4. This program will include developing site performance standards, updating site plan review, ensuring long-term maintenance of post-construction stormwater controls, tracking post-construction stormwater controls, performing inspections, and taking the necessary enforcement actions.</p>
<p>II.B.2.k Develop written Standard Operating Procedures (SOPs) for the structural controls and stormwater collection system operation and the areas of new development and redevelopment. Include the components listed in Section II.B.2.k.i-vi of the Permit.</p>

2.2.2.2 BMP Implementation

Evaluation of the success of this SWMP requirement will be through analysis of the plan review and site inspection process and implementation of post-construction BMPs. Action Items for each permit requirement were selected for permit compliance and to improve water quality by effectively reviewing and permitting areas of new development and redevelopment.

In order to meet the requirements of the Areas of New Development and Redevelopment SWMP requirement, the County will implement the following BMPs seen in Table 8.

No later than 24 months from the effective date of this permit, the County will implement planning procedures including a comprehensive master plan to develop implement and enforce controls to reduce the discharge of pollutants from the MS4 that receive discharges from areas of new development and significant redevelopment after construction is completed.

The comprehensive planning process involves public participation and, where necessary, intergovernmental coordination to reduce the discharge of pollutants to the MEP using management practices, control techniques and system, design and engineering methods and such other provisions that are appropriate.

Table 8: Best Management Practices - Areas of New Development and Redevelopment

AREAS OF NEW DEVELOPMENT AND REDEVELOPMENT			
Develop and Revise Documents, Procedures, and Programs			
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
<p>Continue enforcing the current County zoning and landuse requirements and implement the “Road Map” actions related to stormwater quality per the road map prioritization schedule. Continue to enforce development standards to reduce the discharge of pollutants from areas of new development and significant redevelopment after construction is completed.</p>	<p>Complete By: July 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p style="text-align: center;"> <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.2, pg 7</small> </p>			
<p><i>Space intentionally left blank.</i></p>			

<p>Update County Design Standards and "Road Map" to include:</p> <ul style="list-style-type: none"> • Post-construction stormwater management BMPs. 	<p>Complete By: July 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<ul style="list-style-type: none"> • Consistency with the rules and regulations listed in Section II.B.2.b of the permit. 	<p>Complete By: July 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<ul style="list-style-type: none"> • Water quality standards. Identify, at a minimum, the seven components in Section II.B.2.c of the Permit. 	<p>Complete By: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<ul style="list-style-type: none"> • Items listed in Section II.B.2.d of the Permit. For areas of new development, there shall be no increase in the discharge of pollutants with respect to pre-development levels to the "effective prohibition" and "MEP" standards. *Refer to Appendix D for clarification of MEP for this element. 	<p>Complete By: July 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<ul style="list-style-type: none"> • Incentives for water quality improvements for areas of significant redevelopment. Specific examples are stated in Section II.B.2.e of the permit. 	<p>Complete By: July 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<ul style="list-style-type: none"> • Compliance with the General Construction Permit. 	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<ul style="list-style-type: none"> • Stormwater control measures that approximate pre-development conditions to the MEP and protect water quality. *See details listed for new development standards and incentives for redeveloped sites in Section II.B.2.j.i of the Permit. 	<p>Complete By: July 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.2.b, pg 8, II.B.2.c, pg 8, II.B.2.d, pg 9, II.B.2.e, pg 10, II.B.2.i.i, pg 10, II.B.2.j.i, pg 12</p>			

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<p>Create an Area of New Development and Redevelopment Program document (SOPs) and update Design Standard Procedures to include:</p> <ul style="list-style-type: none"> • Verification, inspection, tracking and enforcement of development permits. • Ensure the long-term maintenance of structural stormwater control measures. Ensure that structural stormwater control measures installed and implemented to meet the Site performance Standards are maintained in perpetuity. • Post-construction inspections per Section II.B.2.j.v.a. *Ensure that the New Development Division gets copies of the NOTs to the Stormwater Division so that post-construction inspections are conducted within the appropriate time frame. • Project review, approval, and enforcement to ensure that all applicable new development and redeveloped sites conform to the performance standards required in Section II.B.2.j.i of the Permit. *See details listed in Section II.B.2.j.ii. • Components found in Section II.B.2.k which include: <ul style="list-style-type: none"> ○ Inventory of structural controls and post-construction BMPs ○ Maintenance agreements that include overgrown vegetation, sediment accumulation, trash and debris removal, erosion control, PHF management, and maintenance required by specific BMPs ○ Post-construction maintenance responsibilities ○ Annual inspections and maintenance of structural controls ○ Annual structural control inspection reports <p>* Ensure that Support Services, Fleet, Roads and Drainage are provided the SOP and appropriate activity sheets for all activities to record activities performed.</p> • Define remaining controls in this SOP as ponds owned by Homeowner Associations (HOAs). These shall be inspected and maintained, if necessary, on a 25% per year basis.	<p>Complete By: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.2.c.v, pg 9, II.B.2.j.iii, pg 13, II.B.2.j.v.a, pg 14, II.B.2.j.ii, pg 13, and II.B.2.k, pg 14</p>			
<p>Utilize monitoring data to incorporate water quality considerations into site planning and development activities.</p> <p>*These procedures, setting specific performance standards for structural and non-structural controls will be incorporated into the following permit re-issuance.</p>	<p>Complete By: January 1, 2021</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p><input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.2.h, pg 10</p>			

<p>Continue developing and implementing strategies which include a combination of structural and/or non-structural BMPs appropriate for the community. *See the "Road Map" for structural and non-structural strategies.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.2.ii, pg 10 and II.B.2.j, pg 12</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p>Evaluate and modify, as necessary, the post-construction program. Include the information listed in Section II.B.2.i.v of the Permit.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.2.i.v.a, pg 11</p>	<p>Complete By: July 1, 2017</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p>Develop/edit the necessary forms to ensure the long-term maintenance of structural stormwater control measures including:</p> <ul style="list-style-type: none"> • Inspection Checklist • Maintenance Schedule • Maintenance Agreement <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.2.j.iii, pg 13</p>	<p>Complete By: July 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
Regulatory Mechanism			
<p>Continue to implement and revise/modify, as necessary, the regulatory mechanisms to ensure that the discharge of pollutants in stormwater runoff resulting from areas of new development and redevelopment is reduced to pre-development levels to the MEP.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.2.a, pg 7</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Throughout Permit Term</p>	<p>Stormwater Management</p>
<p>Enforce and revise, as necessary, ordinances or other regulatory mechanisms to address post construction runoff from new development and redevelopment projects to the extent allowable under State or local law.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.2.i.iii, pg 11 and II.B.2.j, pg 12</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Throughout Permit Term</p>	<p>Stormwater Management</p>
BMP Maintenance			
<p>Continue to ensure adequate long-term operation and maintenance of BMPs and review/modify the schedule as necessary. Ensure proper BMP maintenance agreements are signed and transferred from developer to property owner as the development standards are revised.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.2.i.iv, pg 11 and II.B.2.j, pg 12</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<i>Space intentionally left blank.</i>			

Inventory			
Maintain an inventory of all post-construction structural stormwater control measures installed and implemented at new development and redeveloped sites, including both public and private sector sites located within the permit area. The inventory will include all BMPs constructed since the effective date of this permit, at a minimum.	Complete By: July 1, 2018	Throughout Permit Term	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.2.j.iv, pg 14			
Inspection and Enforcement			
Perform post-construction inspections no later than 30 days of completion of construction of any project required to meet the site performance standards.	Complete By: July 1, 2018	Once During Permit Term	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.2.j.v.a, pg 14			
Conduct inspections of each project site addressed under established Site Performance Standards, Section II.B.2.j.i at least one time during the permit term. *A description of inspection procedures must be included in the SWMP document by the second annual report.	Complete By: July 1, 2018	Once During Permit Term	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.2.j.v.b, pg 14			
Document inspection findings in an inspection report and maintain records of inspection findings and enforcement actions.	Complete By: July 1, 2018	Once During Permit Term	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.2.j.v.c, pg 14			

In order to meet the requirements of the Areas of New Development and Redevelopment SWMP requirement, the County will record the following items, seen in Table 9, during the permit term to report them in the appropriate annual report(s).

Table 9: Annual Reporting - Areas of New Development and Redevelopment

AREAS OF NEW DEVELOPMENT AND REDEVELOPMENT		
Annual Reporting Items		
Action Item(s)	Frequency	Section
Report on how impervious surfaces have been minimized.	Annually starting in Second Annual Report	II.B.2.d.i, pg 9
Report on how the BMP with the best pollutant removal performance has been selected for post-construction stormwater management.	Annually starting in Second Annual Report	II.B.2.d.ii, pg 9
Report on how forested stream buffers and wetlands have been protected.	Annually starting in Second Annual Report	II.B.2.d.iii, pg 9
Report on how drainage "hot spots" have been effectively addressed.	Annually starting in Second Annual Report	II.B.2.d.iv, pg 9
Report on the implementation and incentives for water quality improvements for areas of significant redevelopment.	Second Annual Report	II.B.2.e, pg 10
Describe policy or policy evaluation(s) within the comprehensive master planning process in Section II.B.2.c, which incorporates stormwater quality considerations into land use planning, development, and redevelopment activities. Include site performance standards required in Section II.B.2.j of the permit.	Second Annual Report	II.B.2.f, pg 10, and II.B.2.j, pg 12
Report on water quality improvements obtained in sensitive waters in pertinent annual reports based on the evaluations of water quality monitoring data collected as required in Part V of the Permit along with inspection and maintenance results, sections II.B.2.i.iv, v(f) & (g) and j.iii-v.	Pertinent Annual Reports	II.B.2.g, pg 10
Incorporate water quality considerations, based on II.B.2.g, into site planning and development activities to achieve water quality improvements to the MEP and to protect water quality.	Fourth Annual Report	II.B.2.h, pg 10
Include a narrative describing the existing program to address stormwater runoff from new development and redevelopment projects, including any specific priority areas for this program, and modifications completed during the reporting period.	Every Annual Report	II.B.2.i.v.a, pg 11
Include a narrative with a detailed explanation of how the program is specifically tailored for the local community to minimize water quality impacts and maintain pre-development runoff conditions.	Every Annual Report	II.B.2.i.v.b, pg 11
Include a narrative with a list of non-structural BMPs in the program including: policies, ordinances, incentives, educational programs, and other measures that have been put in to place to minimize the percentage of impervious area after development.	Every Annual Report	II.B.2.i.v.c, pg 11
Include a narrative that describes the structural BMPs in the program including, storage practices, filtration practices, and infiltration practices.	Every Annual Report	II.B.2.i.v.d, pg 11
Include a narrative describing what ordinances or regulatory mechanisms are to be used in addressing post-construction runoff from new development and redevelopment and why the mechanism was chosen. Include a copy of the relevant sections.	Every Annual Report	II.B.2.i.v.e, pg 12
Include a narrative that includes reasonable assurance that long-term operation and maintenance of the selected BMP will take place.	Every Annual Report	II.B.2.i.v.f, pg 12
Include a narrative with the process to evaluate the success of the program.	Every Annual Report	II.B.2.i.v.g, pg 12
Include a description of inspection procedures for Site Performance Standards inspections included in SWMP.	Second Annual Report	II.B.2.j.v, pg 14
Report on water quality improvements achieved due to the verification tracking and enforcement of stormwater policies.	Every Annual Report	VI.A.3.c.vi.b, pg 71
Report on standards and development planning procedures including inspections and maintenance.	Every Annual Report	VI.A.3.c.vi.b, pg 71

2.2.3 Existing Roadways

2.2.3.1 Permit Requirements

In order to meet the requirements of the Existing Roadways, Richland County has continued to operate public streets, roads, and highways in a manner to reduce the discharge of pollutants through implementing SOPs, policies, and other regulatory requirements.

Table 10 shows the general permit requirements for the Existing Roadways element.

Table 10: Existing Roadways Permit Requirements

II.B.3 Continue to operate a road maintenance program to reduce the discharge of pollutants to the MEP.
II.B.3.a Maintain and modify policies, procedures, or regulatory requirements for the use of structural and nonstructural controls. Revise maintenance activities as appropriate to minimize the amount of pollutants that are captured in the stormwater runoff from roadways.
II.B.3.a Regularly inspect and maintain catch basins, roadside ditches, etc. and properly dispose of accumulated sediments.
II.B.3.b MS4 crews and hired contractors shall address stormwater quality issues when performing construction activities within permittees’ right-of-way.
II.B.3.b Implement an SOP that addresses the items listed in Section II.B.3.b.i-vii.
II.B.3.c Spill prevention, material management practices, and good housekeeping shall be considered when issuing encroachment permits.
II.B.3.d Encourage program(s) where volunteers are periodically called upon to pick up litter and trash along roadways through the MS4.
II.B.3.e Maintain records on the Existing Roadway element and report on updates and improvements in the appropriate annual reports.

2.2.3.2 BMP Implementation

Evaluation of the success of this SWMP requirement will be through analysis of road construction, maintenance, and permitting as seen in the Action Items listed in Table 11 below. Action Items for each permit requirement were selected for permit compliance and to improve water quality by managing road operations, construction and maintenance activities.

Public streets, roads and highways, including but not limited to unpaved roads, owned, operated, or under the responsibility of the permittee, shall be operated and maintained in a manner to reduce the discharge of pollutants, including those pollutants related to deicing or sanding activities.

The County shall continue to operate a road maintenance program to reduce the discharge of pollutants to the MEP. The following conditions apply:

- *Water turnouts, drainage systems designed to reduce the volume and velocity of ditch flow, shall be constructed in conjunction with the roadside drainage ditches in accordance with accepted roadway drainage practices*
- *Existing turnouts must direct diverted flow onto vegetated areas where it can be adequately dispersed. The turnouts shall not direct diverted flow or road runoff into waters of the State to the MEP.*

NOTE: Per the SCDHEC Richland County MS4 Permit Modification Request Response letter, these items are to be considered only where they are in accordance with “accepted roadway drainage practices” and only to the MEP. Refer to Appendix D for clarification of MEP for this element.

In order to meet the requirements of the Existing Roadway SWMP requirement, the County will implement the following BMPs seen in Table 11. These practices shall be implemented and modified during the permit term, as necessary.

Table 11: Best Management Practices - Existing Roadways

EXISTING ROADWAYS			
Develop and Revise Documents and Programs			
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
Maintain and modify policies, procedures, or regulatory requirements for the use of structural and nonstructural controls. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.3.a, pg 15</small>	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
Revise maintenance activities as appropriate to minimize the amount of pollutants that are captured in the stormwater runoff from roadways. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.3.a, pg 15</small>	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
Update the Existing Roadways Program (SOPs) document to include: <ul style="list-style-type: none"> Procedures that address the specific items stated in Section II.B.2.b.i-vii of the Permit. Deicing Procedures for reducing the impact on receiving waters of pollutants discharged as a result of deicing activities. *Refer to Appendix D for clarification of MEP for this element. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.3.b, pg 16 and II.B.3.a, pg 16</small>	Complete By: July 1, 2018	Once During Permit Term	Stormwater Management
Verify that the encroachment permit considers spill prevention, material management practices, and good housekeeping. Revise as necessary. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.3.c, pg 16</small>	Complete By: July 1, 2018	Once During Permit Term	Stormwater Management
Inspect and Maintain			
Inspect and maintain structures per County schedule. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.3.a, pg 15</small>	Throughout Permit Term	Throughout Permit Term	Stormwater Management
Perform routine inspections of each maintenance facility to ensure that BMPs are operational and to determine changes that are necessary to improve runoff quality. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.3.b.vii, pg 16</small>	Throughout Permit Term	Throughout Permit Term	Stormwater Management

Public Involvement			
Encourage program(s) where volunteers are periodically called upon to pick up litter and trash along roadways.	Throughout Permit Term	Throughout Permit Term	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.3.d, pg 16</small>			

In order to meet the requirements of the Existing Roadways SWMP requirement, the County will record the following items, seen in Table 12, during the permit term to report them in the appropriate annual report(s).

Table 12: Annual Reporting - Existing Roadways

EXISTING ROADWAYS		
Annual Reporting Items		
Action Item(s)	Frequency	Section
Report any updates on the Existing Roadway SWMP element.	Every Annual Report	II.B.3.e, pg 16
Report on the fully implemented Existing Roadways element.	Second Annual Report	II.B.3.e.i, pg 17
Report on all improvements to the Existing Roadways element of the SWMP.	Fourth Annual Report	II.B.3.e.ii, pg 17
Report the number of street sweeping miles/Street sweeping schedule.	Every Annual Report	VI.A.3.c.vi.c, pg 72
Report the number of litter control activities.	Every Annual Report	VI.A.3.c.vi.c, pg 72
Report the number of maintenance activities on stormwater structure and roadside ditches.	Every Annual Report	VI.A.3.c.vi.c, pg 72

2.2.4 Flood Control Projects

2.2.4.1 Permit Requirements

In order to meet the requirements of the Flood Control Projects, Richland County has procedures in place and are ready to implement them when there is a proposed flood control project.

NOTE: For the purposes of this SWMP, detention facilities designed and constructed to control storm events of greater frequency than the 100- year (e.g., 2-yr and 10-yr storm events) are considered under the structural control element. Only those projects designed and constructed to manage storm events with a recurrence frequency of 100 years or less frequent storm events are considered under the flood control structures element.

Table 13: Flood Control Projects Permit Requirements

II.B.4.a Utilize policies, procedures, or regulatory requirements in evaluating flood control projects. Assess and revise the regulatory mechanism as needed.
II.B.4.b Assess the water quality impacts on receiving water for flood management projects identified in the watershed planning process.
II.B.4.c New flood control projects shall adhere to the standards set forth in: <ul style="list-style-type: none"> i. SC Water Classifications and Standards (SC Regulation 61-68) ii. SC Classified Waters (SC Regulation 61-69) Sections 48-1-10, et seq of the 1976 Code iii. Storm Water Management and Sediment Reduction Act (SC Regulation 72-300) Chapter 14, Title 48, 1976 SC Code as amended, or similarly applicable statute or county ordinance iv. Clean Water Act requirements in sections 401 and 404, whenever and wherever applicable v. The “effective prohibition” and “MEP” standards from Section 402(p)(3)(B) of the Clean Water Act by incorporating water quality considerations into the criteria for flood control design.
II.B.4.d Assess pollution discharge procedures, processes, and methods to control the discharge of pollutants from Flood Control Projects into water bodies and publicly owned lakes. Include this assessment in the first annual report.

2.2.4.2 BMP Implementation

Evaluation of the success of this SWMP requirement will be through analysis of the Action Items included in Table 14 below. Action Items for each permit requirement were selected for permit compliance and to improve water quality by evaluation of potential impacts on water quality by proposed flood control structures.

In order to meet the requirements of the Flood Control Projects SWMP requirement, the County will implement the following BMPs seen in Table 14.

Richland County shall assess flood control projects for water quality. This assessment shall include the evaluation and modification of the activities listed in Table 14 to ensure that flood control projects reduce the potential for the discharge of pollutants to the MEP.

Table 14: Best Management Practices - Flood Control Projects

FLOOD CONTROL PROJECTS			
Develop and Revise Documents and Programs			
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
Review the policies, procedures, or regulatory requirements that are utilized when evaluating flood control projects. If found to be deficient in providing water quality protection, to the MEP, revise as needed.	Complete By: April 1, 2017	As Needed	Stormwater Management
<input type="checkbox"/> NOT STARTED <input type="checkbox"/> ON-GOING <input checked="" type="checkbox"/> COMPLETED <small>SECTION: II.B.4.a, pg 17</small>			
Create a Flood Control Program document (SOPs) that includes: <ul style="list-style-type: none"> Procedures for the permitting process to include an assessment of water quality impacts on receiving water for flood management projects identified in the watershed planning process. Procedures for the permitting process for flood control projects to include the standards set forth in the documents listed in Section II.B.4.c of the Permit. 	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.4.b, pg 17 and II.B.4.c, pg 17</small>			
Assess pollution discharge procedures, processes, and methods to control the discharge of pollutants from Flood Control Projects into water bodies and publicly owned lakes.	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.4.d, pg 17</small>			

In order to meet the requirements of the Flood Control Projects SWMP requirement, the County will record the following items, seen in Table 15, during the permit term to report them in the appropriate annual report(s).

Table 15: Annual Reporting - Flood Control Projects

FLOOD CONTROL PROJECTS		
Annual Reporting Items		
Action Item(s)	Frequency	Section
Include any updates to the Flood Control program.	Every Annual Report	II.B.4.a, pg 17
Report on the number of flood control projects permitted in the reporting year.	Every Annual Report	II.B.4.b, pg 17
Assess pollution discharge procedures, processes, and methods to control the discharge of pollutants from Flood Control Projects into water bodies and publicly owned lakes.	First Annual Report	II.B.4.d, pg 17
Assess the water quality benefits of flood control projects.	Every Annual Report	VI.A.3.c.vi.d, pg 72
Describe stormwater treatment projects that have been completed, including a description of drainage basin water quality improvements.	Every Annual Report	VI.A.3.c.vi.d, pg 72

2.2.5 Municipal Facilities

2.2.5.1 Permit Requirements

In order to meet the requirements of the Municipal Facilities, Richland County has continued to implement a pollution prevention and good housekeeping program that involves regular inspections, maintenance, and training, with the ultimate goal of preventing or reducing pollutant runoff from municipal operations.

Table 16: Municipal Facilities Permit Requirements

II.B.5.a.i Continue to implement an operation and maintenance program that includes a training component.
II.B.5.a.i.a Continue to update and maintain an inventory of municipally-owned facilities and of stormwater controls that are not covered under a separate general or individual NPDES permit.
II.B.5.a.i.b Develop a list of industrial facilities owned or operated by the County that are subject to the SCDEHC NPDES General Permit for Stormwater Discharges Associated with Industrial Activity (SCR000000) or individual NPDES permits for discharges of stormwater associated with industrial activity that ultimately discharge to the County MS4 area.
II.B.5.a.i.c Maintain the list of municipally owned, or operated, facilities and stormwater controls. These shall be made available for SCDHEC for review.
II.B.5.a.ii.a Assess all municipally-owned or operated facilities identified.
II.B.5.a.ii.b Based on the assessment, identify the “high priority” facilities.
II.B.5.a.ii.c Document the results of the assessment and maintain copies of all site evaluation checklists used to conduct the comprehensive assessment. Include documentation of assessment and any identified deficiencies and corrective actions taken.
II.B.5.a.iii Complete a comprehensive inspection of “high priority” facilities and non-high priority facilities according to the frequency listed in the Permit in Section II.B.5.a.iii.
II.B.5.a.iv Develop an annual employee training program for appropriate employees involved in implementing pollution prevention and good housekeeping practices.
II.B.5.b Continue to implement a program to identify measures to monitor and reduce pollutants in stormwater discharges from facilities that handle municipal waste.
II.B.5.c The Pollution Prevention/Good Housekeeping for municipal waste treatment, storage, or disposal operations program will contain procedures to identify evaluate, inspect, and monitor sites. All landfills will be identified.

2.2.5.2 BMP Implementation

Evaluation of the success of this SWMP requirement will be through analysis of the Action Items for each BMP included in Table 17 below. Action Items for each permit requirement were selected for permit compliance and to improve water quality through inspection and monitoring of municipal facilities good housekeeping procedures, employee training, and identification of high priority facilities.

In order to meet the requirements of the Municipal Facilities SWMP requirement, the County will implement the following BMPs seen in Table 17.

The County must continue to implement a pollution prevention/good housekeeping program for municipal operations. Medium MS4 are required to identify priorities and procedures for inspecting and implementing controls for stormwater discharges from landfills and from hazardous waste treatment, storage and disposal facilities. The operation and maintenance program shall include a training component that has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. This element must include employee training to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance and MS4 maintenance.

Table 17: Best Management Practices - Municipal Facilities

MUNICIPAL FACILITIES			
Develop and Revise Documents and Procedures			
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
Review and update the site evaluation checklist to conduct municipal facility assessments. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.5.ii.a, pg 18</small>	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
Review and update the Municipal Facilities documents, including SWP3s, SPCCs, and other related documents (SOPs) to be sure they include: <ul style="list-style-type: none"> Procedures to identify, evaluate, inspect, and monitor municipal waste treatment, storage, or disposal operations under the Pollution Prevention/Good Housekeeping provision. Procedures for inspections and implementation of control measures. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.5.c, pg 20 and II.B.5.c, pg 20</small>	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
Inventory			
Update and maintain an inventory of municipally-owned facilities and of stormwater controls that are not covered under a separate general or individual NPDES permit. Maintain this list and have available for review by SCDHEC. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.5.a.i.a and II.B.5.a.i.c, pg 18</small>	Throughout Permit Term Beginning in Year 1	As Needed	Stormwater Management
Develop a list of industrial facilities owned or operated by the County and are subject to SCDHEC NPDES General Permit for Stormwater Discharges Associated with Industrial Activity (SCR000000) or individual NPDES permits for discharges of stormwater associated with industrial activity that ultimately discharge to the MS4. This list will include the SCDHEC permit number or a copy of the Industrial NOI form for each facility. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.5.a.i.b, pg 18</small>	Complete By: July 1, 2017	As Needed	Stormwater Management

Identify and locate all landfills, TSD facilities, solid waste transfer stations, fleet maintenance & storage yards, publicly owned treatment works (POTW), and sludge application and/or disposal sites. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.5.c, pg 20	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
Assessment and Prioritization			
Assess all municipally-owned or operated facilities identified in II.B.5.a.i(a). Assessment must be included in the permit reapplication. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.5.a.ii.a, pg 18	Complete By: June 1, 2018	Once During Permit Term	Stormwater Management
Based on assessment, create a "high priority" facilities list based on those that have high potential to generate stormwater pollutants. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.5.ii.b, pg 18	Complete By: July 1, 2018	Once During Permit Term	Stormwater Management
Document the results of the permittee's initial assessment and any identified deficiencies and corrective actions taken. <input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.5.ii.c, pg 18	Complete By: June 1, 2018	Once During Permit Term	Stormwater Management
On-going Inspections			
Perform an annual comprehensive inspection of "high priority" facilities. Document and maintain inspection results. Include any identified deficiencies and the corrective actions taken to fix them. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.5.iii, pg 19	Start Date: July 1, 2018	Annually	Stormwater Management
Perform a comprehensive inspection of non-high priority facilities. Document and maintain inspection results. Include any identified deficiencies and the corrective actions taken to fix them. <input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.5.iii, pg 19	Complete By: January 1, 2021	Once During Permit Term	Stormwater Management
Annual Training			
Provide an annual training and education program for employees involved in storm water inspection, maintenance, pollution prevention and good housekeeping practices. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.5.a.i, pg 18, II.B.5.a.iv, pg 19	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management

In order to meet the requirements of the Municipal Facilities SWMP requirement, the County will record the following items, seen in Table 18, during the permit term to report them in the appropriate annual report(s).

Table 18: Annual Reporting - Municipal Facilities

MUNICIPAL FACILITIES		
Annual Reporting Items		
Action Item(s)	Frequency	Section
Report on all facility inspections, both high and non-high priority facilities	Fourth Annual Report	II.B.5.a.iii, pg 18
Report on the implementation of the municipal facilities program to identify measures to monitor and reduce pollutants in stormwater discharges from facilities that handle municipal waste.	Every Annual Report	II.B.5.b, pg 18
Report on continuing implementation of the SWP3 for all appropriate facilities.	Every Annual Report	II.B.5.b.i, pg 20
Report on continuing training of the appropriate personnel on SWP3 maintenance, BMP effective implementation, monthly inspection and ongoing record keeping.	Every Annual Report	II.B.5.b.ii, pg 20
Report the number of inspections completed in reporting year.	Every Annual Report	VI.A.3.c.vi.e, pg 72
Report the number of monitored facilities.	Every Annual Report	VI.A.3.c.vi.e, pg 72
Report the number of implemented control measures	Every Annual Report	VI.A.3.c.vi.e, pg 72
Report the date(s) the annual employee training was held.	Every Annual Report	II.B.5.a.i, pg 18 II.B.5.a.iv, pg 19
Report the number of attendees or attach the personnel sign in sheet from the training(s).	Every Annual Report	II.B.5.a.i, pg 18 II.B.5.a.iv, pg 19

2.2.6 Application of Pesticide, Herbicide, and Fertilizers (PHF)

2.2.6.1 Permit Requirements

In order to meet the requirements of the Application of Pesticide, Herbicide, and Fertilizers (PHF), Richland County has implemented a program to reduce, to the MEP, pollutants in discharges from the County associated with the application of PHFs. This includes educational activities, permits, certifications, and other guidance related to using, storing, and disposing of PHFs.

Table 19: Application of Pesticide, Herbicide, and Fertilizers (PHF) Permit Requirements

II.B.6.a.i Maintain an inventory of on-hand PHFs with information about the formulations of various products.
II.B.6.a.ii Create a decision protocol to determine when mowing or herbicides should be used. This will include application methods and estimated quantities to be used.
II.B.6.a.iii Create BMPs related to equipment use and maintenance for PHF activities.
II.B.6.a.iv Develop provisions for items listed in II.B.6.a.iv of the Permit.
II.B.6.a.v Offer training in safe use, storage, and disposal of PHFs.
II.B.6.a.vi Develop inspection and monitoring procedures.
II.B.6.a.vii Create procedures for record keeping and public notice.
II.B.6.b Create BMPs to achieve the effective prohibition of the discharge of pollutants related to application and distribution of PHFs. This includes identifying areas known to receive high applications of PHF, requiring proper certification and licensing for applicators, and identifying and tracking all PHF sample points.
II.B.6.c Implement a program that establishes procedures that minimize the use of PHFs, ensure proper application, storage, and mixing of products, control PHF application, and are in compliance with SCDHEC.
II.B.6.d Implement requirements for contractor oversight of PHF applicators.
II.B.6.e Report on the PHF element in each annual report.

2.2.6.2 BMP Implementation

Evaluation of the success of this SWMP requirement will be through analysis of the Action Items for each BMP included in Table 20 below. Action Items for each permit requirement were selected for permit compliance and to improve water quality through management of the storage and usage of PHF’s and training/certification of appropriate County staff.

In order to meet the requirements of the Application of the PHF SWMP requirement, the County will implement the following BMPs seen in Table 20.

Reduce to the MEP, pollutants in discharges from MS4 associated with the application of pesticides, herbicides and fertilizer which will include, as appropriate, controls such as educational activities, permits, certifications and other measures for commercial applicators and distributors, and controls for application in public right-of-ways and at municipal facilities.

Richland County (coordinated with the Town of Arcadia Lakes and with the City of Forest Acres as appropriate) shall continue to implement controls to reduce, to the MEP, the discharge of pollutants related to the storage and application of PHF by employees or contractors, to public rights of way, parks, and other public property. New controls implemented shall be consistent with all applicable rules and regulations.

Table 20: Best Management Practices - Application of Pesticide, Herbicide, and Fertilizers (PHF)

APPLICATION OF PESTICIDE, HERBICIDE, AND FERTILIZERS (PHF)			
Develop and Revise Documents, Procedures, and Programs			
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
<p>Review and update the PHF Program document (SOPs) that includes:</p> <ul style="list-style-type: none"> • Procedures to determine when mowing or herbicides should be used including application methods and estimated quantities to be used. • Procedures for PHF inspection and monitoring. • Procedures for PHF record keeping and public notice. • Procedures that require evidence of proper certification and licensing for all applicators contracted to apply pesticides or herbicides on municipal property. • Procedures that ensure that contracted applicators are qualified in utilizing proper nutrient management practices to apply fertilizer. • Procedures to accomplish training through Clemson Extension Service if utilizing public employee applicators. • Procedures for equipment use and maintenance. • Procedures for: <ul style="list-style-type: none"> • Minimization of the use of pesticides, herbicides, and fertilizers • Proper application, storage, and mixing these products when, and if, used • Effective control of PHF application in public right of ways and public facilities • Compliance with SCDHEC Bureau of Water NPDES General Permit for discharges from the APPLICATION OF PESTICIDES, SCG160000, as appropriate • Maintain an inventory of on-hand PHF with information about the formulations of various products including: <ul style="list-style-type: none"> • Recognition of the chemical constituents from the label • Their respective uses • Directions and precautions for applicators that explain if products should be diluted, mixed or only used alone • Proper storage of products 	<p>Complete By: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p style="text-align: center;"> <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.6.a.ii, pg 20, II.B.6a.vi, pg 21, II.B.6a.vii, pg 21, II.B.6.b.ii, pg 21, II.B.6.b.iii, pg 21, II.B.6.b.iv, pg 21, II.B.6.b.c, pg 21, II.B.6.a.iii, pg 20, II.B.6.a.iv, pg 21, II.B.6.a.i, pg 20</small> </p>			

Develop and implement a program to detect improper usage of PHFs and prioritize problem areas. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.6.b.i, pg 21	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
Develop and implement requirements for contractor oversight of PHF applicators, as appropriate. (Section I.B.1.c.v(c) and II.B.3.b) <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.6.d, pg 22	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
PHF Inventory			
Identify areas known to receive high applications of PHFs. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.6.b.i, pg 21	Throughout Permit Term Beginning in Year 1	Throughout Permit Term	Stormwater Management
PHF Prioritization			
From the identified areas known to receive high applications of PHF, prioritize the problem areas. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.6.b.i, pg 21	Throughout Permit Term Beginning in Year 1	Throughout Permit Term	Stormwater Management
Tracking Sample Points			
Identify and track PHF sample points, if any. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.6.b.v, pg 21	Throughout Permit Term Beginning in Year 1	Throughout Permit Term	Stormwater Management
Annual Training			
Provide training in safe use, storage, and disposal of PHFs. *Details for the Initial Training for Pesticide Applicators may be found at the Clemson Extension website. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.6.a.v, pg 21 and II.B.6.b.iv, pg 21	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management

In order to meet the requirements of the Application of Pesticide, Herbicide, and Fertilizers (PHF) SWMP requirement, the County will record the following items, seen in Table 21, during the permit term to report them in the appropriate annual report(s).

Table 21: Annual Reporting - Application of Pesticide, Herbicide, and Fertilizers (PHF)

APPLICATION OF PESTICIDE, HERBICIDE, AND FERTILIZERS (PHF)		
Annual Reporting Items		
Action Item(s)	Frequency	Section
Report on the implementation of the Application of PHF element.	Every Annual Report	II.B.6.e, pg 22
Report the number of public education activities were held related to PHFs.	Every Annual Report	VI.A.3.c.vi.f, pg 72
Report the date(s) the annual employee training was held.	Every Annual Report	II.B.6.a.v, pg 21 II.B.5.b.iv, pg 21
Report the number of attendees or attach the personnel sign in sheet from the training(s).	Every Annual Report	II.B.6.a.v, pg 21 II.B.5.b.iv, pg 21

2.2.7 Illicit Discharges and Improper Disposal

2.2.7.1 Permit Requirements

In order to meet the requirements of the Illicit Discharges and Improper Disposal (IDID), Richland County has developed processes, procedures, and legal authority for detecting, tracking, and eliminating illicit discharges and for managing spills.

Table 22: Illicit Discharges and Improper Disposal Permit Requirements

II.B.7.a Non-stormwater discharges to the MS4 shall be effectively prohibited by the County through the use of inspections, ordinances, and enforcement, with exceptions as noted for Allowable Non-Stormwater Discharges.
II.B.7.b Continue to implement an illicit discharge and improper disposal element that utilizes regulatory control measures to prevent illicit discharges, has procedures for proper reporting and inspection, identifies non-stormwater discharges, develops conditions to be placed on other non-stormwater discharges, which will be allowed to discharge, implements an illicit connection program, and maintains an up to-date inspection database.
II.B.7.c Continue to implement the field screening analysis program to detect the presence of illicit connections and eliminate improper discharges to the County MS4.
II.B.7.c.i Develop procedures for dry weather screening.
II.B.7.c.ii Conduct dry weather field screening and/or analytical monitoring to identify the source of illicit discharges.
II.B.7.c.iii Assess the effectiveness of the Field Screening component and determine if the level of effort is adequate in attaining the effective prohibition of non-stormwater discharges into the County MS4. *Refer to Appendix D for clarification of MEP for this element.
II.B.7.d Continue to implement SOP for investigating portions of the MS4 that, based on the results of the field screening, indicate a reasonable potential of containing illicit discharges or other sources of non-stormwater. Identify and track illicit connections or discharge sources in identified watershed areas, record citizen reports, have a response mechanism for citizen complaints, complete field screening and citizen complaint follow-up, address all identified instances of illicit connections as soon as possible, but in no case later than 10 working days from source identification, and implement a requirement for immediate cessation of improper disposal practices and the elimination, or proper permitting of the illicit connection as expeditiously as possible.
II.B.7.e Continue to implement the spill prevention/spill response plan and procedures by effectively mitigating potential pollutant discharges to surface or ground waters.
II.B.7.f Continue the effective prohibition to discharge or to dispose of used motor vehicle fluids, household hazardous wastes, and animal wastes into the County MS4.
II.B.7.g Achieve the “effective prohibition” and “MEP” standards from the Clean Water Act in consistency with the South Carolina Pollution Control Act. Follow the specific requirements listed in Section II.B.7.g of the Permit that state, in general, to minimize unpermitted discharges of dry and wet weather overflows from sanitary sewers into the MS4 and minimized the infiltration of seepage from sanitary sewers and the infiltration of seepage from septic tanks into the MS4. *Refer to Appendix D for clarification of MEP for this element.
II.B.7.h Develop/update a storm sewer system map showing the location of all outfalls and the names and location of waters that receive discharges.
II.B.7.i Promote, publicize, and facilitate a reporting mechanism for the public and staff to report illicit discharges and establish and implement citizen request response procedures.

<p>II.B.7.j Train field personnel involved in identifying conditions indicative of the presence of illicit discharges and in spill prevention and response for all appropriate municipal field staff, which, as part of their normal job responsibilities, may come into contact with, or otherwise observe, an illicit discharge or illicit connection to the storm sewer system shall be in place.</p>
<p>II.B.7.k Develop a written SOP for implementing the Illicit Discharge and Improper Disposal element and incorporate into the SWMP.</p>

2.2.7.2 BMP Implementation

Evaluation of the success of this SWMP requirement will be through review of the number of illicit discharges detected and eliminated, the response to spills, and the implementation of the Action Items for each BMP included in Table 23 below. Action Items for each permit requirement were selected for permit compliance and to improve water quality through illicit discharge detection and elimination (IDDE) and management of accidental spills.

In order to meet the requirements of the Illicit Discharges and Improper Disposal SWMP requirement, the County will implement the following BMPs seen in Table 23.

Permittees shall continue to implement an ongoing program to detect and eliminate (or require the discharger to the MS4 to eliminate) illicit discharges and improper disposal into the storm sewer system to achieve the “effective prohibition” and “MEP” standards from Section 402(p)(3)(B) of the Clean Water Act and to be consistent with South Carolina Pollution Control Act, Title 48, Chapter 1 of the Code of Laws of South Carolina.

Table 23: Best Management Practices - Improper Discharges and Improper Disposal

IMPROPER DISCHARGES AND IMPROPER DISPOSAL			
Develop and Revise Documents and Procedures			
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
<p>Review and update the inspection and enforcement guidelines, as needed, to be used to prohibit non-stormwater discharges to Richland County’s MS4, with exceptions as noted for Allowable Non-Stormwater Discharges (SC R. 61-9 122.26(d)(2)(iv)(B)(1)).</p> <p><input type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input checked="" type="checkbox"/> COMPLETED SECTION: II.B.7.a, pg 22 and II.B.7.b.i.a-e, pg 22</p>	<p>Complete By: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p>Describe conditions to be placed on other non-stormwater discharges, which will be allowed to discharge to the County.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.7.b.iv, pg 23</p>	<p>Complete By: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p>Review, update, and continue to implement a program to detect illicit connections to the County’s MS4 and include main components that are listed in Section II.B.7.b.v.a-d.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.7.b.v, pg 23</p>	<p>Complete By: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>

<p>Review and update the Improper Discharges and Improper Disposal Program document (SOPs) that includes:</p> <ul style="list-style-type: none"> • Procedures for dry weather screening as described in Section II.B.7.c.i, pg 23 of the Permit. • Procedures for field screening that include requirements in Section II.B.7.c.ii.b, pg 24 of the Permit. • Procedures regarding illicit connections or illicit discharges are observed related to another MS4 operator(s). Include what timeframe the County will notify the other operator. Also include procedures on if another operator(s) notifies the County of an illegal connection or illicit discharge to their MS4. • Procedures for investigation of suspected illicit discharge or improper disposal that includes requirements in Section II.B.7.d, pg 25 of the Permit. • Procedures to require the immediate cessation of improper disposal practices and the elimination, or proper permitting of the illicit connection as expeditiously as possible. Include the items listed in Section II.B.7.d.vi.a-g. • Procedures for spill-prevention and spill response, including reporting procedures, spills containment, storage and disposal activities, documentation, and follow-up procedures. • Procedures to continue the effective prohibition to discharge or to dispose of used motor vehicle fluids, household hazardous wastes, and animal wastes into the MS4. • Procedures to detect and address all infiltration, inflow, and cross connections through the Public Sewer Districts (PSD) in the MS4. Previously unknown problems shall be addressed upon discovery. Advise appropriate utility owner of violation if constituents common to wastewater contamination are discovered in the MS4 during field screening or routine system inspections. <p>*Refer to Appendix D for clarification of MEP for this element.</p>	<p>Complete By: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
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<ul style="list-style-type: none"> Procedures for responding to public notices of illicit discharges, the various responsible agencies and their contacts, and who would be involved in illicit discharge incidence response. 			
<p style="text-align: center;"><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED</p> <p>SECTION: II.B.7.c.i, pg 23, II.B.7.c.ii.b, pg 24, II.B.7.c.iii.a, pg 24, II.B.7.c.iii.b, pg 24, II.B.7.d, pg 25, II.B.7.d.vi, pg 26, II.B.7.e, pg 26, II.B.7.e.ii, pg 26, II.B.7.f, pg 26, II.B.7.g.iv, pg 27, II.B.7.i.i, pg 28, and, II.B.7.k, pg 28</p>			
<p>Modify IDDE screening methodology in the IDDE Program document, as necessary, based on experience gained during actual field screening activities including a detailed summary of responsibilities for field activity, frequency of inspections, procedures and equipment to be used, and documentation of screening activities both in the field and in the office in accordance with SC Regulation 61-9 122.26(d)(iv)(B)(3).</p>	<p style="text-align: center;">Throughout Permit Term Beginning in Year 1</p>	<p style="text-align: center;">As Needed</p>	<p style="text-align: center;">Stormwater Management</p>
<p style="text-align: center;"><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED</p> <p style="text-align: center;">SECTION: II.B.7.c.iii.c, pg 24</p>			
<p>Create a field screening report form to be used while completing the field screening requirements including a section regarding follow-up inspections, tracking, etc. *Refer to Appendix D for clarification of MEP for this element.</p>	<p style="text-align: center;">Complete By: July 1, 2017</p>	<p style="text-align: center;">Once During Permit Term</p>	<p style="text-align: center;">Stormwater Management</p>
<p style="text-align: center;"><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED</p> <p style="text-align: center;">SECTION: II.B.7.c.iii.e, pg 25</p>			
<p>Update the ERP to include the enforcement procedures for correcting illicit connections.</p>	<p style="text-align: center;">Complete By: July 1, 2017</p>	<p style="text-align: center;">Once During Permit Term</p>	<p style="text-align: center;">Stormwater Management</p>
<p style="text-align: center;"><input type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input checked="" type="checkbox"/> COMPLETED</p> <p style="text-align: center;">SECTION: II.B.7.d.vi, pg 26</p>			
<p>Review and revise the existing Richland County Hazardous Material Contingency Plan.</p>	<p style="text-align: center;">Complete By: November 1, 2017</p>	<p style="text-align: center;">Once During Permit Term</p>	<p style="text-align: center;">Stormwater Management</p>
<p style="text-align: center;"><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED</p> <p style="text-align: center;">SECTION: II.B.7.e.i, pg 26</p>			
<p>Create and implement an approach to eliminate septic system failures.</p>	<p style="text-align: center;">Complete By: November 1, 2017</p>	<p style="text-align: center;">Once During Permit Term</p>	<p style="text-align: center;">Stormwater Management</p>
<p style="text-align: center;"><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED</p> <p style="text-align: center;">SECTION: II.B.7.g.v.a, pg 27</p>			
<p><i>Space intentionally left blank.</i></p>			

Legal Authority			
<p>Verify that the County’s ordinance prohibits non-stormwater discharges to Richland County’s MS4, with exceptions as noted for Allowable Non-Stormwater Discharges (SC R. 61-9 122.26(d)(2)(iv)(B)(1). Continue enforcing enacted ordinances prohibiting illicit discharges, specifically illicit connections and illegal dumping, into the County.</p> <p>*Implement the legal authority listed in Section II.B.7.b.i.a-e.</p> <p>Illicit discharges and connections are addressed in Section 26-203: NPDES Municipal Separate Storm Sewer System (MS4) Program of the County’s ordinance.</p>	<p>Complete By: July 1, 2016</p>	<p>Throughout Permit Term</p>	<p>Stormwater Management</p>
<p><input type="checkbox"/> NOT STARTED <input type="checkbox"/> ON-GOING <input checked="" type="checkbox"/> COMPLETED SECTION: II.B.7.a, pg 22 and II.B.7.b.i.a-e, pg 22</p>			
<p>Evaluate the success of the illicit discharge portion of ordinances or other regulatory mechanisms. Include any recommended changes to the ordinance or programmatic activities in the assessment.</p>	<p>Complete By: April 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.7.b.vii, pg 23</p>			
Inspections and Prioritization			
<p>Perform inspections to prohibit non-stormwater discharges to Richland County’s MS4, with exceptions as noted for Allowable Non-Stormwater Discharges (SC R. 61-9 122.26(d)(2)(iv)(B)(1)).</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.7.a, pg 22, and II.B.7.b.ii, pg 22</p>			
<p>Identify and report non-stormwater discharges, found during inspections.</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.7.b.iii, pg 22</p>			
<p>Prioritize sources with the greatest potential for spills to occur (or cause the most severe damage).</p>	<p>Start Date: February 1, 2017</p>	<p>Throughout Permit Term</p>	<p>Stormwater Management</p>
<p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.7.e.iii, pg 26</p>			
<p>Conduct inspections in response to complaints and follow-up inspections as needed to ensure that corrective measures have been implemented.</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>As Needed</p>	<p>Stormwater Management</p>
<p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.7.i.ii, pg 28</p>			

Database			
Maintain an IDID inspection database, including enforcement actions and subsequent resolutions. *See Section II.B.7.b.vi.a-c for what to include in database.	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.7.b.vi.a-c, pg 23</small>			
Field Screening			
Conduct dry weather field screening and/or analytical monitoring, when necessary, to identify the source of illicit discharges. Screen 25% of the major outfalls annually.	Throughout Permit Term Beginning in Year 1	Major Outfalls Once Before January 1, 2021	Stormwater Management
Conduct dry weather visual observations and required field screening at each outfall/field screening point. Dry weather screening activities should be conducted no less than 72-hours of continuous dry conditions following at least 0.10-inch of rainfall.			
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.7.c, pg 23, II.B.7.c.iii.f, pg 25, II.B.7.c.ii.b, pg 24</small>			
Identify all field screening points within the priority areas identified in Sections II.B.7.b.vi & vii where field screening and analytical monitoring, if warranted, will take place. In addition, where the County is aware of non-stormwater discharges that occur outside of the priority areas, identify points, outfalls, or major outfalls to conduct field screening.	Throughout Permit Term Beginning in Year 2	Annually	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.7.c.ii.a, pg 24</small>			
Maintain an internal log documenting the results of all field screening performed and include the information stated in Section II.B.7.c.iii.e of the Permit.	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.7.c.iii.e, pg 25</small>			
Continue to implement SOPs for investigating portions of the MS4 that, based on the results of the field screening or other appropriate information, indicate a reasonable potential of containing illicit discharges or other sources of non-stormwater in accordance with SC Regulation 61-9.122.26(d)(2)(iv)(B).	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.7.d, pg 25</small>			
Complete field screening and citizen complaint follow-up for reported suspected illicit discharges.	Throughout Permit Term Beginning in Year 1	As Needed	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.7.d.iv, pg 25</small>			

Illicit Discharge Procedures			
<p>If illicit connections or illicit discharges are observed related to another MS4 operator(s), then the County will notify the other operator within a timeframe that is consistent with the procedures found in the SOP.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED</p> <p>SECTION: II.B.7.c.iii.a, pg 24</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p>If another operator(s) notifies the County of an illegal connection or illicit discharge to their MS4, then the permittee must follow the Illicit Discharges and Improper Disposal element requirements.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED</p> <p>SECTION: II.B.7.c.iii.b, pg 24</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
Inventory			
<p>Identify all of the outfalls that were not previously identified, describing the method used to identify them. These may be identified while performing field screening activities. The County will list all known major outfalls located in the County's MS4 area on a map.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED</p> <p>SECTION: II.B.7.c.iii.g, pg 25 and II.B.7.c.iii.d, pg 25</p>	<p>Complete By: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p>Develop a storm sewer system map showing the location of all outfalls, and the names and location of waters that receive discharges.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED</p> <p>SECTION: II.B.7.h, pg 28</p>	<p>Complete By: July 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
Illicit Connections/Discharges			
<p>Identify and track illicit connections or discharge sources in identified watershed areas. Trace suspect dry weather flow upstream, collect water quality samples, and follow through, as necessary to investigate and eliminate illicit discharges found. Notify the SCDHEC District Office of any illicit connection posing an immediate threat to human health or safety.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED</p> <p>SECTION: II.B.7.d.i, pg 25</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p>Address all identified illicit connections as soon as possible, but in no case later than 10 working days from source identification.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED</p> <p>SECTION: II.B.7.d.v, pg 26</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>As Needed</p>	<p>Stormwater Management</p>

Citizen Reporting			
<p>Keep a record of citizen reports. Document suspected illicit discharges and/or improper disposal and note any follow-up actions that were held.</p> <p style="text-align: right;"><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.7.d.ii, pg 25</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p>Use the Ombudsman One-Call Response Center that can be reached at 803-929-6000 or at ombudsman@rcgov.us to receive citizen complaints. This contact can be used to report suspected illicit discharges and/or improper disposal.</p> <p style="text-align: right;"><input type="checkbox"/> NOT STARTED <input type="checkbox"/> ON-GOING <input checked="" type="checkbox"/> COMPLETED SECTION: II.B.7.d.iii, pg 25</p>	<p>Complete By: March 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p>Promote, publicize, and facilitate a reporting mechanism for the public and staff to report illicit discharges and establish and implement citizen request response procedures. This may done through many different outlets including billboards, business, cards, etc.</p> <p style="text-align: right;"><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.7.i, pg 28</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
Sanitary Sewer and Septic Seepage			
<p>Where the County has authority over the sewer collection system, the County will:</p> <ul style="list-style-type: none"> • Minimize unpermitted discharges of dry and wet weather overflows from sanitary sewers into the MS4 • Minimize the infiltration of seepage from sanitary sewers and the infiltration of seepage from septic tanks into the MS4 <p style="text-align: right;"><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.7.g.i.a-b, pg 27</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p>In areas where the County does not have authority over the sewer collection system, minimize unpermitted discharges of dry and wet weather overflows and the infiltration of seepage from sanitary sewers or septic tanks into the MS4 to the MEP by enacting and enforcing an ordinance or other appropriate mechanism that effectively prohibits such discharges from sewage and septage systems.</p> <p style="text-align: right;"><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.7.g.ii, pg 27</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>

<p>Report to the DHEC EQC Office instances where unpermitted discharges of dry and wet weather overflows, or infiltration of seepage from sanitary sewers into the MS4 have been detected but have not been corrected by the discharger after sixty days of being detected.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.7.g.iii, pg 27</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p>Address seepage from malfunctioning septic systems in areas not served by POTW.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.7.g.v.b, pg 27</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>As Needed</p>	<p>Stormwater Management</p>
<p>Develop a Sanitary Sewer and Septic Seepage program to limit the infiltration of sanitary sewage and septic seepage into the MS4. The program will include addressing leaking sanitary sewer lines using detection techniques such as smoke testing, television camera inspection, and test kits for ammonia, actively scheduling sealing of sanitary sewer lines and manhole rehabilitation, and creating a map to be used in prioritizing the detection schedule.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.7.g.vi, pg 27</p>	<p>Complete By: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
Training			
<p>Provide training for field personnel whom, as part of their normal job responsibilities, may come into contact with or observe an illicit discharge, illicit connection to the storm sewer system, or accidental spill. Include the components of the training listed in Section II.b.7.j.i-v of the Permit.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.7.j, pg 28</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>

In order to meet the requirements of the Illicit Discharges and Improper Disposal SWMP requirement, the County will record the following items, seen in Table 24, during the permit term to report them in the appropriate annual report(s).

Table 24: Annual Reporting - Illicit Discharges and Improper Disposal

ILLCIT DISCHARGES AND IMPROPER DISPOSAL		
Annual Reporting Items		
Action Item(s)	Frequency	Section
Report on the illicit connections program and include updates to the program.	Every Annual Report	II.B.7.b.v, pg 23
Report on the success of the illicit discharge portion of ordinances or other regulatory mechanisms. Include any recommended changes to the ordinance or programmatic activities in the assessment.	Fourth Annual Report	II.B.7.b.vii, pg 23
Assess the effectiveness of the Field Screening component of the illicit discharge and improper disposal element to determine if the level of effort is adequate in attaining the effective prohibition of non-stormwater discharges into the MS4.	Second Annual Report	II.B.7.c.iii, pg 24
Implement changes to the program, after the assessment of the effectiveness of the Field Screening component, based on where updates are found to be necessary.	Fourth Annual Report	II.B.7.c.iii, pg 24
Maintain a log of activities for eliminating septic system failures, summarize the activities, and report them.	Every Annual Report	II.B.7.g.v.c, pg 27
Include a summary of the citizen complaint log documenting all reports of illicit discharges and what actions were taken to investigate and resolve the problem.	Every Annual Report	II.B.7.i.iii, pg 28
Report on all training and follow up training provided. Include a summary of training activities and a list of personnel who received the training.	Every Annual Report	II.B.7.j.vi, pg 28
Include the latest system map.	Every Annual Report	VI.A.3.c.vi.h, pg 72
Report on the inspections, investigations, and enforcement actions related to spill response.	Every Annual Report	VI.A.3.c.vi.h, pg 72
Report on the inspections, investigations, and enforcement actions related to illicit discharges or illicit connections either found during field screening reported by the public.	Every Annual Report	II.B.7.d.vi, pg 26 VI.A.3.c.vi.h, pg 72
Report on the inspections, investigations, and enforcement actions related to oil and household hazardous waste.	Every Annual Report	VI.A.3.c.vi.h, pg 72
Report on the inspections, investigations, and enforcement actions related to sanitary sewer and septage seepage.	Every Annual Report	VI.A.3.c.vi.h, pg 72
Report on the inspections, investigations, and enforcement actions related to effective prohibition.	Every Annual Report	VI.A.3.c.vi.h, pg 72

2.2.8 Industrial Runoff

2.2.8.1 Permit Requirements

In order to meet the requirements of the Industrial Runoff, Richland County has implemented a program that monitors and controls pollutants, to the MEP, in stormwater discharges to the County’s MS4 from industrial facilities. The County maintains an inventory of all industrial facilities and has developed the appropriate procedures for inspecting, monitoring, and responding to non-compliance at industrial facilities.

Table 25: Industrial Runoff Permit Requirements

II.B.8.a Richland County shall continue to implement and enforce a program to identify, monitor, and control pollutants in stormwater discharges to the MS4 from the listed types of industrial facilities. Requirements of this element will not apply only to the industrial facilities, but to any facility deemed by the County as having significant pollution potential.
II.B.8.b.i Inventory all industrial facilities meeting the criteria outlined in Section II.B.8.a and update the inventory annually.
II.B.8.b.ii Implement, and modify as necessary, procedures for inspecting industrial facilities. Inspections will include a written report with the items listed in Section II.B.8.b.ii of the Permit.
II.B.8.b.iii Include in the procedures for inspecting priority industrial sites, specific steps to be taken when a waste handling site, including landfills, is identified.
II.B.8.b.iv Identify facilities conducting industrial activities, including activities to identify potentially unpermitted sites. Get authority to request confirmation of their coverage under the NPDES General Permit for Industrial Activities or “No Exposure” certification, as well to allow periodic inspection and public reporting by the MS4 operator.
II.B.8.c Implement a monitoring program, which includes analytical monitoring for stormwater discharges associated with industrial facilities, facilities subject to effluent guidelines, facilities with an existing NPDES permit, and facilities where it is known, or there is a reason to believe, that any of the pollutants that are impaired are present.
II.B.8.d Richland County must have the adequate legal authority to control the contribution of pollutants to the MS4 by stormwater discharges associated with industrial activity and the quality of stormwater discharged from sites of industrial activity, and to carry out all inspection, surveillance, and monitoring procedures necessary to determine compliance and non-compliance with permit conditions.
II.B.8.e Report findings from the industrial runoff program in each annual report, as well as reporting a current list of active industrial users in the County, any monitoring data, any steps taken to address runoff from sites, and the number of inspections.

2.2.8.2 BMP Implementation

Evaluation of the success of this SWMP requirement will be through analysis of the facility inspection and monitoring reports and for each BMP included in Table 26 below. Action Items for each permit requirement were selected for permit compliance and to improve water quality through an inspection and monitoring program associated with industrial facilities.

In order to meet the requirements of the Industrial Runoff SWMP requirement, the County will implement the following BMPs seen in Table 26.

Richland County shall continue to implement and enforce a program to identify, monitor and control pollutants in stormwater discharges to the MS4 from landfills, hazardous waste, storage, disposal, and recovery facilities, and other industrial activities that are listed in Section II.B.8.a of the Permit.

The County shall apply requirements of this element not only to the industrial facilities herein, but also to any facility deemed by the permittees as having significant pollution potential. MS4 must continue to actively conduct evaluations to locate and identify all industrial users contributing to the MS4, both currently those in the database and those entering the system during the permit cycle.

Table 26: Best Management Practices - Industrial Runoff

INDUSTRIAL RUNOFF			
Develop and Revise Documents, Programs, and Procedures			
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
Review and update the annual landfill inspection form. <input type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input checked="" type="checkbox"/> COMPLETED <small>SECTION: II.B.8.a.i, pg 29</small>	Complete By: January 1, 2017	Once During Permit Term	Stormwater Management
Create industrial facilities inspection form. Include items listed in Section II.B.8.b.ii of Permit. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.8.b.ii, pg 29</small>	Complete By: January 1, 2017	Once During Permit Term	Stormwater Management
Continue to implement and enforce a program to identify, monitor, and control pollutants in stormwater discharges to the County MS4 from the items listed in Section II.B.8.a of the permit. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.8.a, pg 29</small>	Throughout Permit Term Beginning in Year 1	Throughout Permit Term	Stormwater Management
Review and update the Industrial Runoff Program document (SOPs) to include: <ul style="list-style-type: none"> • Procedures for inspecting industrial facilities including specific steps for waste handling sites and landfills. • Procedures to be taken when a waste handling site, including a landfill, is identified. <input type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input checked="" type="checkbox"/> COMPLETED <small>SECTION: II.B.8.b.ii, pg 29 and II.B.8.b.iii, pg 30</small>	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
Legal Authority			
Establish authority to request confirmation of coverage under the NPDES general permit for industrial activities or "no exposure" certification, as well as the authority to conduct periodic inspection and public reporting by the MS4 operator for industrial facilities that discharge throughout the County MS4 area. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.8.b.iv, pg 30</small>	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
Establish authority to control the contribution of pollutants to the County MS4 by stormwater discharges associated with industrial activity and the quality of stormwater discharged from sites of industrial activity, and carry out all inspection, surveillance and monitoring procedures necessary to determine compliance and non-compliance with permit conditions. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.8.d, pg 30</small>	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management

Inventory			
Create and update an inventory all industrial facilities meeting the criteria outlined in Section II.B.8.a.	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.8.b.i, pg 30</small>			
Inspection			
Perform annual landfill inspections to ensure compliance with applicable industrial stormwater regulations. Add similar facilities found in the MS4 to the list for compliance assurance.	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.8.a.i, pg 29</small>			
Inspect industrial facilities based on the facilities inventoried in Section II.B.8.b.i.	Throughout Permit Term Beginning in Year 1	25% of the facilities/year (All by January 1, 2021-prior to renotification)	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.8.b.ii.e, pg 29</small>			
Monitoring			
Continue to implement a monitoring program which includes analytical monitoring for stormwater discharges associated with industrial facilities (identified in II.B.8.a), facilities subject to effluent guidelines, facilities with an existing NPDES permit, and facilities where it is known, or there is a reason to believe, that any of the pollutants listed in Appendix D of the Permit are present. * Refer to Appendix D of the SWMP for clarification of MEP for this element.	Throughout Permit Term Beginning in Year 1	Throughout Permit Term	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.8.c, pg 30</small>			
Implementation			
Implement and maintain BMPs to reduce stormwater pollutant loadings.	Throughout Permit Term Beginning in Year 1	Throughout Permit Term	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.8.a.i, pg 29</small>			

In order to meet the requirements of the Industrial Runoff SWMP requirement, the County will record the following items, seen in Table 27, during the permit term to report them in the appropriate annual report(s).

Table 27: Annual Reporting - Industrial Runoff

INDUSTRIAL RUNOFF		
Annual Reporting Items		
Action Item(s)	Frequency	Section
Include a list of active industrial users in Richland County	Every Annual Report	II.B.8.e.i, pg 31
Report on steps that will be taken, during the next reporting period, to effectively address runoff from the sites for any monitoring data that indicates runoff pollution attributable to industrial runoff.	Every Annual Report	II.B.8.e.ii, pg 31
Report the number of updated documents, procedures, and programs (findings of Section II.B.8.a, b, & c).	Every Annual Report	II.B.8.e.iii, pg 31
Include a detailed analyses on the monitoring for industrial runoff element.	Fourth Annual Report	II.B.8.e.iv, pg 31
Include the percent of industrial facilities inspected during the reporting period.	Every Annual Report	II.B.8.e.v, pg 31
Report the number of inspection activities conducted in the reporting year.	Every Annual Report	II.B.8.e.iii, pg 31, VI.A.3.c.vi.h, pg 72
Report on the results of monitoring completed during inspection year.	Every Annual Report	II.B.8.e.iii, pg 31, VI.A.3.c.vi.h, pg 72

2.2.9 Construction Site Runoff

2.2.9.1 Permit Requirements

In order to meet the requirements of the Construction Site Runoff, Richland County has continued to implement a program to reduce erosion and sedimentation associated with construction sites. This program includes implementing the appropriate ordinances and procedures to require the design, installation, and maintenance of effective pollution preventions measures for construction site operators.

Table 28 summarizes the requirements of the Construction Site Runoff element.

Table 28: Construction Site Runoff Permit Requirements

II.B.9 Continue to implement a program to reduce erosion and sedimentation at construction sites to achieve the “effective prohibition” and MEP
II.B.9.a Continue to require the use and maintenance of appropriate structural and non-structural BMPs to reduce pollutants discharged to the MS4. Continue implementing construction practices and standards through local ordinance addressing stormwater runoff water quality control requirements for all new development and significant redevelopment within the MS4.
II.B.9.b Continue implementing and enforcing a program to reduce pollutants in any stormwater runoff to their MS4 from construction activities. Details of the program are listed in Section II.B.9.b of the Permit and, in general, include having the appropriate ordinances, procedures, and design, installation, and maintenance requirements to effectively minimize the discharge of pollutants related to construction site runoff.
II.B.9.c Ensure that adequate measures are in place prior to the commencement of construction activity, that will continue to be implemented to protect water quality and that any water quality related requirement of this element is followed as contained in the approved plans. This program element includes maintaining an inventory of active construction projects, implementing inspection procedures, providing inspector training, and establishing enforcement procedures. *Refer to Appendix D for clarification of MEP for this element.
II.B.9.d Develop an ERP for the Construction Site Runoff element.
II.B.9.e Gather the appropriate information listed in Section II.B.9.e of the permit to report in each annual report.

2.2.9.2 BMP Implementation

Evaluation of the success of this SWMP requirement will be through analysis of the construction plan review and site inspection program, specifically the identification of construction site non-compliance and resolution. Action Items for each permit requirement were selected for permit compliance and to improve water quality through the review of site construction plans and on-going site inspections to reduce erosion and downstream sedimentation.

In order to meet the requirements of the Construction Site Runoff SWMP requirement, the County will implement the following BMPs seen in Table 29.

Permittees shall continue to implement a program to reduce erosion and sedimentation at construction sites to achieve the “effective prohibition” and “MEP” standards from Section 402(p)(3)(B) of the Clean Water Act and to be consistent with South Carolina Pollution Control Act, Title 48, Chapter 1 of the Code

of Laws of South Carolina. Storm water discharges during land disturbance activities shall comply with:

- Applicable sections of SC Regulation 61-9 pursuant to the South Carolina Pollution Control Act (48-1-10, et seq, S.C. Code of Laws, 1976);
- SC Regulations 72-300 and 72-400 pursuant to 14-48.10 et. Seq., SC Code, 1976, as amended;
- SC Regulations 61-68 Water Classification and Standards and 61-69 Classified Waters promulgated by SCDEHC pursuant to the South Carolina Pollution Control Act (48-1-10, et seq. S.C. Code of Laws, 1976; and
- The requirements set in the SCDHEC Bureau of Water Antidegradation for Activities Contributing Nonpoint Source Pollution to Impaired Waters – Maintaining Water Quality Through Storm Water Controls of November 1999 or later, as updated.

Special consideration shall be given to: highly sensitive waters, areas in proximity to drinking water intakes, wetlands, watersheds for which a TMDL has been approved, areas of development and significant redevelopment where Antidegradation for Activities Contributing Nonpoint Source Pollution to Impaired Waters applies and to any watershed draining to an impaired waterbody.

Table 29: Best Management Practices - Construction Site Runoff

CONSTRUCTION SITE RUNOFF			
Develop and Revise Documents and Procedures			
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
Revise the Design Standards, as necessary, to continue to require the use and maintenance of appropriate structural and non-structural BMPs to reduce pollutants discharged to the MS4 during the time of construction and to continue implementing construction practices and standards through local ordinances addressing stormwater runoff water quality control requirements for all new development and significant redevelopment within the MS4.	Throughout Permit Term Beginning in Year 1	Annually	Planning Director
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.9.a, pg 32			
Space intentionally left blank.			

<p>Update the Design Standards (SOPs) to include:</p> <ul style="list-style-type: none"> • Procedures to review construction drawings prior to construction approval. • Procedures for construction site operators to implement specific erosion and sediment control BMP. • Procedures for the design, installation, and maintenance of effective pollution prevention measures for construction site operators to accomplish the items listed in Section II.B.9.b.iv.a-d of the Permit. • Procedures for each operator of a construction activity to prepare and submit a site specific Stormwater Pollution Prevention Plan (SWP3), in accordance with the NPDES General Permit for Stormwater Discharges from Construction Activities (SCR100000) or subsequent issuance, prior to the disturbance of land for the MS4 to review and approve. • Procedures for site plan review that, at a minimum, meet the items listed in II.B.9.b.vi.a-f of the permit. • Procedures for inspecting construction projects in accordance with the frequency listed in Table II.B.9.c.ii of the Permit. • Procedures that state that once final site stabilization is verified, the transition where post-construction maintenance responsibilities commence shall be clearly defined in the NOT, as-built plans, or similar procedures. • Procedures to notify building permit applicants, in developments subject to the stormwater regulations, of their application responsibilities under the NPDES permitting program for construction site runoff. • Procedures for inspection and enforcement of construction sites, including the minimum requirements in Section II.B.9.c.vi of the Permit. <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED</p> <p>SECTION: II.B.9.b.i, pg 32, II.B.9.b.iii, pg 32, II.B.9.b.iv, pg 32, II.B.9.b.v, pg 33, II.B.9.b.vi, pg 33, II.B.9.c.ii, pg 35, II.B.9.c.iv, pg 35, II.B.9.c.v.a, pg 36, II.B.9.c.vi, pg 36</p>	<p>Complete By: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Planning Director</p>
<p>Develop/update an ERP and describe what responses will be used to address various types of violations. *See Section II.B.9.d for items to be included in the ERP.</p> <p><input type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input checked="" type="checkbox"/> COMPLETED</p> <p>SECTION: II.B.9.d, pg 37</p>	<p>Complete By: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Planning Director</p>

Legal Authority			
Continue implementing ordinances, or other regulatory mechanisms, requiring erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under State, Tribal, or local law. Section 26-202: Stormwater management and SWP3s addresses erosion and sediment control.	Throughout Permit Term Beginning in Year 1	Annually	Planning Director
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.9.b.ii, pg 32</small>			
Inventory			
Maintain an inventory of all active construction projects and continuously update this inventory as new projects are permitted and projects are completed. *See Section II.B.9.c.i and Section II.B.9.c.i.c-d of the Permit for specific information to include in this inventory.	Throughout Permit Term Beginning in Year 1	As Needed	Planning Director
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.9.c.i, pg 34</small>			
Inspections			
Track the number of inspections for the inventoried construction sites throughout the reporting period to verify that the sites are inspected at the minimum frequencies required. Document inspections and enforcement activities for each site in the inventory.	Throughout Permit Term Beginning in Year 1	As Needed	Planning Director
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.9.c.i.a-b, pg 34</small>			
Inspect various phases of construction. Verify that inspection procedures, at a minimum, occur following installation of initial BMP, during active construction, and after final site stabilization.	Throughout Permit Term Beginning in Year 1	As Needed	Planning Director
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.9.c.iii, pg 35</small>			
Education and Training			
Implement an effective communication process with construction contractors to educate them on areas in which improvements are needed and to enforce any required actions.	Throughout Permit Term Beginning in Year 1	Annually	Planning Director
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.9.c.v.b, pg 36</small>			
Implement a training program for inspectors (regardless of specialty) who are likely to be on site during earth moving activities in proper erosion control techniques.	Throughout Permit Term Beginning in Year 1	Annually	Planning Director
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.9.c.v.c, pg 36</small>			

Retain at least one Certified Stormwater Operator/Inspector on staff (these individuals shall be either field supervisors, heavy equipment operators actively involved in County earth moving activities, or engineering staff responsible for specifying erosion control measures for Permittees activities). *Refer to Appendix D for clarification of MEP for this element.	Throughout Permit Term Beginning in Year 1	Annually	Planning Director
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.9.v.d, pg 36			
Provide permit applicants with notice of the availability of training for construction projects involving significant earth moving activities.	Throughout Permit Term Beginning in Year 1	Annually	Planning Director
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.9.c.v.e, pg 36			

In order to meet the requirements of the Construction Site Runoff SWMP requirement, the County will record the following items, seen in Table 30, during the permit term to report them in the appropriate annual report(s).

Table 30: Annual Reporting - Construction Site Runoff

CONSTRUCTION SITE RUNOFF		
Annual Reporting Items		
Action Item(s)	Frequency	Section
Report the number of active construction projects in maintained inventory.	Every Annual Report	II.B.9.c.i, pg 34
Include a summary of procedures on the plan to conduct presentations to professional organizations associated with the construction industry to discuss proper site management for water quality.	First Annual Report	II.B.9.c.v.f, pg 36
Report on the effectiveness of the Stormwater Management Division ERP.	Every Annual Report	II.B.9.e.i, pg 37
Report on any improvements made to the SOP for the Construction Site Runoff element that: <ol style="list-style-type: none"> Standardize the enforcement escalation procedures for non-compliant sites Implement the SOPs for conducting inspections Implement the schedules for inspections, including, but not limited to frequency and triggers Implement the SOPs for contacting other County agencies regarding MS4 items Document inspection and enforcement activities for each active site 	Every Annual Report	II.B.9.e.ii, pg 37
Report the number of trainings held and number of attendees at trainings during reporting year.	Every Annual Report	VI.A.3.c.i, pg 72
Report the number of certified construction site operators during reporting year.	Every Annual Report	VI.A.3.c.i, pg 72
Report the number of inspections completed in reporting year.	Every Annual Report	VI.A.3.c.i, pg 72
Report the number of enforcement actions taken during reporting year.	Every Annual Report	VI.A.3.c.i, pg 72

2.2.10 Public Education & Public Participation

2.2.10.1 Permit Requirements

In order to meet the requirements of the Public Education & Public Participation, Richland County has continued to provide educational materials for the public, provide training to appropriate employees and contractors, and encourage public participation regarding implementing stormwater controls.

Table 31: Public Education & Public Participation Permit Requirements

II.B.10.a.i	The County will continue to implement, and revise if necessary, a comprehensive stormwater education/outreach program in accordance with the items listed in Section II.B.10.a. These include elements related to identifying and analyzing pollutants of concern (POCs) and what audiences may have an influence on these POCs. Education campaigns will be developed and implemented to convey messaging in accordance with program goals and objectives. The program will be reviewed and adjusted as necessary.
II.B.10.a.ii	Conduct education and outreach at least once per year to broaden the understanding of GI as NPDES initiative and low impact development (LID) MS4 wide. This effort will include workshops and/or models for contractors.
II.B.10.a.iii	Continue to implement public education and participation programs to encourage the public to reduce their use of pesticides, herbicides, and fertilizers.
II.B.10.a.iv	Continue to implement a program to promote, publicize, and facilitate public reporting of the presence of illicit discharges, improper disposal of materials, and water quality impacts associated with discharges from/into the MS4.
II.B.10.a.v	Continue to implement the outreach program to instruct the public on responsible environmental management and disposal of household hazardous waste.
II.B.10.a.vi	Continue to conduct appropriate education and training measures for construction site operators and those associated with the implementation of proper sediment and erosion control measures at construction sites.
II.B.10.a.vii	Continue to implement the animal waste component of the public education program.
II.B.10.a.viii	Reduce the amount of trash entering waters of the State MS4 wide through actions taken by local governments, the business community, and individual citizens.
II.B.10.a.ix	Include an assessment of the progress in public awareness and behavior with respect to the targeted POC resulting from the implementation of the Public Education component of this element.
II.B.10.b	Involve the public in the planning and implementation of activities related to the development of the SWMP.
II.B.10.b.i	Create opportunities for citizens to participate in the implementation of stormwater controls.
II.B.10.b.ii	Ensure the public can easily find information about the County's SWMP.
II.B.10.b.iii	Implement Construction Site Public Involvement procedures for receipt and consideration of information submitted by the public.
II.B.10.b.iv	Develop written procedures for implementing the Public Education, Public Participation, and Training.
II.B.10.c	Incorporate all training requirements listed throughout the Permit.

2.2.10.2 BMP Implementation

Evaluation of the success of this SWMP requirement will be through analysis of the participation and education of the public regarding stormwater quality activities and issues. Action Items for each permit

requirement were selected for permit compliance and to improve water quality through the education of the public regarding stormwater quality issues.

In order to meet the requirements of the Public Education & Public Participation SWMP requirement, the County will implement the following BMPs seen in Table 32.

Permittees must continue to implement a public education program to distribute educational materials or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.

Table 32: Best Management Practices - Public Education & Public Participation

PUBLIC EDUCATION & PUBLIC PARTICIPATION			
Pollutant(s) of Concern (POC)			
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
Identify the POC(s) within Richland County’s defined watershed area(s). These are defined in the Richland Countywide Stormwater Consortium Strategic Plan. <input type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input checked="" type="checkbox"/> COMPLETED <small>SECTION: II.B.10.a.i.a, pg 38</small>	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
Analyze the identified POCs to be targeted. For example, target areas where there are significant trash issues and/or concerns. These are discussed in the Richland Countywide Stormwater Consortium Strategic Plan. <input type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input checked="" type="checkbox"/> COMPLETED <small>SECTION: II.B.10.a.i.b, pg 38</small>	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
Initiate a planning process that defines the goals and objectives of the program as they relate to at least three high priority community issues with potential to decrease the POCs effect on water quality. Include formative and summative evaluation within the planned goals and objectives. Program goals and objectives must include short-term goals geared to increase awareness of the issue as well as longer-term goals geared to affect behavior change to the MEP. The County’s program objectives, strategy, and overview are included in the Richland Countywide Stormwater Consortium Strategic Plan. <input type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input checked="" type="checkbox"/> COMPLETED <small>SECTION: II.B.10.a.i.c, pg 38</small>	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
Identify and analyze the audience(s) that is believed to have an influence on the POCs identified and that are believed to have an influence on the goals and objectives identified. These are defined in the Richland Countywide Stormwater Consortium Strategic Plan. <input type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input checked="" type="checkbox"/> COMPLETED <small>SECTION: II.B.10.a.i.d, pg 38</small>	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management

Materials and Messages			
<p>Create appropriate message(s) in accordance with the program goals and objectives that is designed to invoke a desired response in the targeted audience(s).</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.10.a.i.e, pg 38</p>	<p>Complete By: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p>Develop an appropriate education campaign and/or materials as needed to convey any messaging created in accordance with program goals and objectives and based on knowledge of the target audience(s). Campaign items and materials can utilize various medias such as printed materials, billboard and mass transit advertisements, websites, social media or other special events.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.10.a.i.f, pg 38</p>	<p>Complete By: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p>Determine methods and process of distribution of the campaign materials.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.10.a.i.g, pg 38</p>	<p>Complete By: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
Evaluation/Assessment			
<p>Utilize quantitative and/or qualitative formative evaluation assessments to guide and/or change the program goals and objectives and/or program activities as needed, to the MEP.</p> <p><input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.10.a.i.h, pg 38</p>	<p>Start Date: July 1, 2017</p>	<p>As Needed</p>	<p>Stormwater Management</p>
<p>Assess the stormwater education/outreach program annually and adjust their educational materials and the delivery of such materials to address findings resulting from these assessments.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.10.a.i.k, pg 39</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p>Include an assessment of the progress in public awareness and behavior with respect to the targeted POC resulting from the implementation of the Public Education component of this element.</p> <p><input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: II.B.10.a.ix, pg 40</p>	<p>Complete By: January 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p>Develop and implement a public education program to reduce pollutants of concern within watersheds containing sensitive waters.</p> <p><input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: III.A.4.a.ii-iii, pg 53</p>	<p>Complete By: July 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>

Public Involvement			
Utilize public input to the MEP in the development of the Public Education and Outreach on Stormwater Impacts element of the SWMP.	Complete By: July 1, 2017	Once During Permit Term	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.10.a.i.i, pg 39</small>			
Conduct education and outreach to broaden the understanding of GI and LID. Include workshops and/or models for contractors that emphasize: <ul style="list-style-type: none"> • Cost benefit analysis showing the effectiveness of GI and LID and their positive impact on the local economy. • LID/GI Site selection consideration. • Opportunity provided by BMP retrofits. These may be included with other requirements of the permit. 	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.10.a.ii.a-d, pg 39</small>			
Involve the public in the planning and implementation of activities related to the development and implementation of the SWMP.	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.10.b, pg 40</small>			
Create opportunities for citizens to participate in the implementation of stormwater controls (e.g., stream clean-ups, storm drain stenciling, volunteer monitoring, public and/or private partnership for litter prevention and behavior modification, and educational activities).	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.10.b.i, pg 40</small>			
Ensure the public can easily find information about their SWMP.	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.B.10.b.ii, pg 40</small>			
Implementation			
Implement the program to the MEP.	Start Date: July 1, 2017	Throughout Permit Term	Stormwater Management
<input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: II.B.10.a.i.j, pg 39</small>			

Programs			
<p>Continue to implement the public education and the public participation programs to encourage the public to reduce their use of pesticides, herbicides, and fertilizers. This program will include elements to:</p> <ul style="list-style-type: none"> • Assist homeowners in minimizing residential use of pesticides and herbicides and in improving landscape design and maintenance to protect the environment and restore native habitats. • Place brochures/pamphlets prepared on PHF topics in public buildings for distribution to residents. • Publish a semi-annual article/notice in a community newsletter announcing the availability of PHF materials • Provide tips for homeowners of ways to reduce their use of pesticides, herbicides, and fertilizers. 	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.10.a.iii, pg 39</p>			
<p>Continue to implement a program to promote, publicize, and facilitate public reporting of the presence of illicit discharges, improper disposal of materials, and water quality impacts associated with discharges from/into the MS4. The program must:</p> <ul style="list-style-type: none"> • Include a mechanism for the public to report illicit discharges to the MS4. • Include provisions to educate the public about illicit discharges and about the problems associated with illicit connections or discharges. • Inform the public on what to look for and how to report incidents found. • Inform the public on the existing stormwater ordinances and emphasize the benefits of a successful stormwater management program. 	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.10.a.iv, pg 39</p>			

<p>Continue to implement the outreach program that:</p> <ul style="list-style-type: none"> Instructs the public on responsible environmental management and disposal of household hazardous waste. Facilitates the proper disposal of used oil and toxics from households. Includes continuous noticing (web or print) to inform the public of the proper disposal methods for used oil and toxics from households and of the locations and hours of operation of Richland County and retail collection sites that will accept used motor oil, leftover hazardous household products, lead acid batteries, and white goods. <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.10.a.v, pg 40</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p>Continue to implement the animal waste component of the public education program that includes:</p> <ul style="list-style-type: none"> Education for pet owners and others about the highly adverse impact this source, once transported via runoff, may have on water quality. Working with pet owners, homeowners associations, or others as it may be appropriate to incorporate a stormwater quality message to minimize the stormwater pollution potential associated with animal waste. <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.10.a.vii, pg 40</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p>Implement a program to reduce the amount of trash entering Waters of the State throughout the MS4 through actions taken by local governments, the business community, and individual citizens.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.10.a.viii, pg 40</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>
<p>Education and Training</p>			
<p>Continue to conduct education and training measures for construction site operators and those associated with the implementation of proper sediment and erosion control measures at construction sites.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.10.a.vi, 40</p>	<p>Throughout Permit Term Beginning in Year 1</p>	<p>Annually</p>	<p>Stormwater Management</p>

Procedures			
Continue to implement construction site public involvement procedures for receipt and consideration of information submitted by the public. Information can be submitted by the public to the County's One Stop system. Through this system, the correct department will be notified when information has been submitted.	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED SECTION: II.B.10.b.iii, pg 40			

In order to meet the requirements of the Public Education and Public Participation SWMP requirement, the County will record the following items, seen in Table 33, during the permit term to report them in the appropriate annual report(s).

Table 33: Annual Reporting - Public Education and Public Participation

PUBLIC EDUCATION AND PUBLIC PARTICIPATION		
Annual Reporting Items		
Action Item(s)	Frequency	Section
Assess the stormwater education/outreach program annually and adjust their educational materials and the delivery of such materials to address findings resulting from these assessments.	Every Annual Report	II.B.10.a.i.k, pg 39
Include the pollution reductions expected from the BMP specified.	First Annual Report	II.B.10.a.vii, pg 40
Include an assessment of the progress in public awareness and behavior with respect to the targeted POC resulting from the implementation of the Public Education component of this element.	Fourth Annual Report	II.B.10.a.ix, pg 40
Provide a summary/annual assessment of public participation and education activities.	Every Annual Report	VI.A.3.c.j, pg 72

2.3 Reviewing and Updating Stormwater Management Plan

Table 34: Reviewing and Updating SWMP

SWMP REQUIREMENTS			
Update Stormwater Management Plan	Not Started: <input type="checkbox"/> In Progress : <input checked="" type="checkbox"/> Completed: <input type="checkbox"/>		
	Section: 4.5.1 & 4.5.2		
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
Review and revise the SWMP document to keep it up to date during the term of the permit.	See Table 35 for Annual Reporting Deadlines	Annually	Stormwater Management
Stormwater Management Plan Updates Required by SCDHEC	Not Started: <input checked="" type="checkbox"/> In Progress : <input type="checkbox"/> Completed: <input type="checkbox"/>		
	Section: 4.5.3		
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
Incorporate SCDHEC requested changes to the SWMP.	As Specified By SCDHEC	As Required	Stormwater Management

This SWMP is a living document and will be updated and revised throughout the permit term. Modifications will be made in accordance with Section II.H.2 of the County’s permit. See Table 1 on page i for a summary of when the SWMP was revised and what sections(s) were revised.

2.4 Reporting

The County will submit an Annual Report based on the schedule and reporting period described in Table 35. Each annual report will include a contacts list, SWMP evaluation, summary table, narrative section, monitoring section, summary of SWMP and monitoring modifications, fiscal analysis, any other required reported information, and required appendices.

Table 35: Reporting

REPORTING			
1st Report	Not Started: <input checked="" type="checkbox"/> In Progress : <input type="checkbox"/> Completed: <input type="checkbox"/>		
	Section: 5.3		
Action Item(s)	Schedule/Deadline	Reporting Period	Responsible Party
Complete and Submit 1 st Report.	Complete by: July 1, 2017	July 1, 2016 – April 30, 2017	Stormwater Management
2nd Report	Not Started: <input checked="" type="checkbox"/> In Progress : <input type="checkbox"/> Completed: <input type="checkbox"/>		
	Section: 5.3		
Action Item(s)	Schedule/Deadline	Reporting Period	Responsible Party
Complete and Submit 2 nd Report.	Complete by July 1, 2018	May 1, 2017 – April 30, 2018	Stormwater Management
3rd Report	Not Started: <input checked="" type="checkbox"/> In Progress : <input type="checkbox"/> Completed: <input type="checkbox"/>		
	Section: 5.3		
Action Item(s)	Schedule/Deadline	Reporting Period	Responsible Party
Complete and Submit 3 rd Report.	Complete by: July 1, 2019	May 1, 2018 – April 30, 2019	Stormwater Management
4th Report and Renotification	Not Started: <input checked="" type="checkbox"/> In Progress : <input type="checkbox"/> Completed: <input type="checkbox"/>		
	Section: 5.3		
Action Item(s)	Schedule/Deadline	Reporting Period	Responsible Party
Complete and Submit 4 th Report and Renotification.	Complete by: January 1, 2021	May 1, 2019 – September 30, 2020	Stormwater Management

Appendix C includes the annual reporting items from each element described above as well as the monitoring reporting requirements.

Where and When to Submit Annual Reports:

- *Monitoring results obtained during the reporting period running from the twelve-month (12) term beginning on the effective date of this permit and annually thereafter as required by Part VI shall be submitted as part of the Annual Report during the permit term.*
- *The original and three signed copies of the Annual Report required by Section VI.A.1 and all other reports required herein, shall be submitted to:*

*SC Department of Health and Environmental Control (SCDHEC)
ATTN: Bureau of Water/Compliance Assurance Division
2600 Bull Street
Columbia, South Carolina 29201*

3.0 Monitoring Section

3.1 Water Quality Based Effluent Limitations (WQBEL)

Section III of the Permit includes detailed requirements for WQBELs. It includes requirements for watersheds in Richland County that drain to a WQMS where a TMDL and Wasteload Allocation for dissolved oxygen (DO) and *Escherichia coli* (*E. coli*) have been established, where impairments have been noted, and in watersheds containing sensitive waters. Table 36 summarizes the requirements from the WQBEL Section of the Permit. The Permit should be referenced for more details on what should be completed.

Table 36: Best Management Practices - Water Quality Based Effluent Limitations

WATER QUALITY BASED EFFLUENT LIMITATIONS (WQBEL)			
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
<p>Create new and/or revise existing TMDL Monitoring and Assessment Plan for each TMDL watershed to address requirements in Section III.A.3 of the permit. *This requirement is discussed further in Table 38. The Schedule/Deadline should be followed from that table.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: III.A.3, pg 52</p>	Based on Schedule Determined. See Table 38.	Once During Permit Term	Stormwater Management
<p>Determine whether discharges from the MS4 contribute directly or indirectly to waterbodies with impaired WQMS as listed in 2014 303(d) list. Identify potential significant contributions to the DO impairment from the MS4; Identify significant contributors to BIO impairments from the MS4; Identify potential significant contributors to any Cu impairment from the MS4; Identify potential contributions of pollutants to sensitive waters.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: III.A.3.a, pg 52, II.A.3.b, pg 52, III.A.3.d.i, pg 52, III.A.3.e.i, pg 52, II.A.4.a.i, pg 53</p>	Complete by: July 1, 2017	Once During Permit Term	Stormwater Management
<p>Implement applicable components of the SWMP requirements to effectively address stormwater discharges contributing to BIO impairments.</p> <p><input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: III.A.3.d.ii, pg 52</p>	Complete by: July 1, 2018	Once During Permit Term	Stormwater Management
<p>Review results of IDDE program and other monitoring, determine if additional monitoring is necessary in sensitive waters, and prioritize IDDE and monitoring in sensitive watersheds.</p> <p><input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: III.A.4.a.ii-iii, pg 53</p>	Complete by: July 1, 2018	Once During Permit Term	Stormwater Management
<p>Evaluate each of the SWMP elements to determine if the elements should be modified to address WQ concerns in sensitive waters.</p> <p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: III.A.4.a.iv, pg 53</p>	Complete by: July 1, 2019	Once During Permit Term	Stormwater Management

In order to meet the requirements of the WQBEL SWMP requirement, the County will record the following items, seen in Table 37, during the permit term to report them in the appropriate annual report(s).

Table 37: Annual Reporting - WQBEL

WQBEL		
Annual Reporting Items		
Action Item(s)	Frequency	Section
Report on water quality results from measures implemented under the WQBEL provisions, II.A.2.a-b.	Annually Starting in the Second Annual Report	III.A.2.c, pg 51
Include the determination of whether discharges from the MS4 contribute directly or indirectly to water bodies with impaired WQMS as listed in 2014 303(d) list.	First Annual Report	III.A.3.a, pg 52
Report on the progress on implementation and DO reductions.	Every Annual Report	III.A.3.b.ii, pg 52
Report on the progress on implementation and <i>E. coli</i> reductions.	Every Annual Report	III.A.3.c, pg 52
Report on the corrective course of action and water quality improvements in WQMS impaired for BIO.	Every Annual Report	III.A.3.d.iii, pg 52
Report on water quality improvements in WQMS impaired for Cu.	Every Annual Report	III.A.3.e.ii, pg 52
Identify contribution of pollutants to sensitive water bodies from the MS4. For any specific parameter(s) in the WQS of the Sensitive Waters identify potential pollutants or surrogate parameters.	First Annual Report	III.A.4.a.i, pg 53
Report on the attainment of intended uses and maintenance of water quality standards.	Every Annual Report	III.A.4.b.f, pg 54
Report on the progress on WQBEL implementation and pollutant reductions.	Every Annual Report	III.A.5, pg 54
Identify which parameters will be excluded based on the evaluation of previous data.	First Annual Report	III.B.1.e, pg 56

3.2 Monitoring Requirements

Section IV and Section V of the Permit includes detailed monitoring requirements for TMDL watersheds and impaired WQMSs located in Richland County. Table 38 summarizes the requirements of the Monitoring Section of the Permit. The Permit should be referenced for more details on what should be completed.

Table 38: Best Management Practices - Monitoring Requirements

MONITORING REQUIREMENTS			
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
Monitoring must begin at MS4 discharges draining to WQMS included in Table IV.C.1 and on the sensitive waterbodies listed in IV.D.1.	Start Date: July 1, 2017	Throughout Permit Term	Stormwater Management
<input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: IV.C.2, pg 61, IV.D.1, pg 63</small>			

<p>For TMDL watersheds, impaired WQMS and/or sensitive waters listed in Parts III or IV of the permit, found to have pollutants in bottom sediments, where MS4 discharges in fact contribute directly, or indirectly, to these pollutant findings, conduct sampling aimed to determine the extent of the pollution and to demonstrate its reduction. Report on findings of biosurvey data analysis. Identify any pollutants which will be excluded from monitoring under III.B provision.</p>	<p>Complete by: July 1, 2017</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: V.A.3.a, pg 67, III.B.1.e, pg 56</p>			
<p>Revise Monitoring Plans.</p>	<p>Start Date: July 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p><input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: IV.C.B, pg 57</p>			
<p>Prioritize the existing TMDL WQMS's listed in Appendix C of the permit and create a schedule to complete and submit TMDL Implementation Plans. In these plans, all monitoring and assessment information should be included along with the implementation plan. This schedule should include Implementation Plans due during the second, third, and fourth Annual Reports.</p>	<p>Complete by: July 1, 2017</p>	<p>Throughout Permit Term</p>	<p>Stormwater Management</p>
<p><input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: IV.B.1, pg 57</p>			
<p>Monitoring must begin at MS4 discharges draining to WQMS included in Table IV.C.2 and on the sensitive waterbodies listed in IV.D.2</p>	<p>Start Date: July 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p><input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: IV.C.3, pg 61</p>			
<p>Evaluate and update the monitoring program based on water quality control identification and describe a corrective course of action based on biosurvey data.</p>	<p>Complete by: July 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p><input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: V.A.3.a.ii, pg 67</p>			
<p>Complete the first TMDL Implementation Plan according to the submitted schedule.</p>	<p>Complete by: July 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p><input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: IV.B.2, pg 57, IV.B.6.i.i, pg 60</p>			
<p>During the third year of the permit, analyze BMP performance based on monitoring results. Based on the analysis, prioritize sampling for the last two permit years.</p>	<p>Start Date: July 1, 2018</p>	<p>Once During Permit Term</p>	<p>Stormwater Management</p>
<p><input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED SECTION: V.3.a.iv.d, pg 68</p>			

Complete the second TMDL Implementation Plans according to the submitted schedule. ----- <input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: IV.B.3, pg 57, IV.B.6.i.i, pg 60</small>	Complete by: July 1, 2019	Once During Permit Term	Stormwater Management
Revise monitoring/implementation plan for sediment, macroinvertebrate, and DO and submit as part of renotification. ----- <input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: V.A.3.iv.f, pg 68</small>	Complete by: January 1, 2021	Once During Permit Term	Stormwater Management
Complete the third TMDL Implementation Plans according to the submitted schedule. ----- <input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: IV.B.4, pg 57, IV.B.6.i.i, pg 60</small>	Complete by: January 1, 2021	Once During Permit Term	Stormwater Management
Report on progress of permitted activities in correcting adverse water quality impacts under the biosurvey driven monitoring program. ----- <input checked="" type="checkbox"/> NOT STARTED <input type="checkbox"/> IN-PROGRESS <input type="checkbox"/> COMPLETED <small>SECTION: V.A.3.a.iii, pg 68</small>	Complete by: January 1, 2021	Once During Permit Term	Stormwater Management

In order to meet the requirements of the Monitoring SWMP requirement, the County will record the following items, seen in Table 39, during the permit term to report them in the appropriate annual report(s).

Table 39: Annual Reporting - Monitoring

MONITORING		
Annual Reporting Items		
Action Item(s)	Frequency	Section
Include a schedule for completing and submitting TMDL Implementation Plans based on the prioritized existing TMDLs listed in Appendix C of the Permit.	First Annual Report	IV.B.1, pg 57
Submit TMDL Implementation Plans, including WQBEL, as prioritized and scheduled (first four TMDLs).	Second Annual Report	IV.B.2, pg 57
Submit TMDL Implementation Plans, including WQBEL, as prioritized and scheduled (second four TMDLs).	Third Annual Report	IV.B.3, pg 57
Submit TMDL Implementation Plans, including WQBEL, as prioritized and scheduled (last five TMDLs).	Fourth Annual Report	IV.B.4, pg 57
Report on the progress of the characterization of the relative pollutant levels, for each POC, from various MS4 discharges to TMDL waters. Include resulting data following the commencement of monitoring for TMDL pollutant characterization.	Every Annual Report	IV.B.5.b.i.a.8, pg 58
Include any updates made to the TMDL Monitoring and Assessment Plans.	Every Annual Report	IV.B.5.b.i.b.3, pg 58
Report on any progress made to the TMDL Monitoring and Assessment Plans.	Every Annual Report	IV.B.5.b.i.b.4, pg 58
Report on BMP implementation activities as required under Section IV.B.6.e.i-iii.	Every Annual Report	IV.B.6.e.iv, pg 59
Report on progress on TMDL Implementation. This shall include analysis of the monitoring data, BMP performance, and progress toward the WLA.	Every Annual Report	IV.B.6.f.i-iii, pg 60
Include a sediment, macroinvertebrate, and dissolved oxygen monitoring plan including a time frame and parameters to be sampled.	Every Annual Report	V.A.3, pg 67
Determine the extent of any impairment, or adverse water quality impact caused by pollutants found in biosurvey data, as qualified in V.A.3.a and report these findings in the overall MS4 water quality assessment.	First Annual Report	V.A.3.a.i, pg 67
Establish a corrective course of action to address adverse water quality impacts caused by MS4 pollutants found in biosurvey data. Evaluate and update the monitoring program, if necessary.	Second Annual Report	V.A.3.a.ii, pg 67
Report on the progress of the permitted activities in correcting adverse water quality impacts caused by MS4 pollutants found in biosurvey data, after the course of action needed to correct the adverse water quality impact caused by MS4 pollutants found in biosurvey has been undertaken.	Fourth Annual Report (Renotification)	V.A.3.a.iii, pg 68
Evaluate and submit a report on BMP performance based on monitoring results done to prioritize the sampling for the last two years of the permit.	Fourth Annual Report (Renotification)	V.A.3.a.iv.d, pg 68
Revise the plan during the first half of the fifth year and submit these revisions, based on findings in the evaluation of BMP performance,	Fourth Annual Report (Renotification)	V.A.3.a.iv.f, pg 68
Discuss the progress and results of the monitoring programs required under Parts II, III, and V. Include a summary of the monitoring program developed and implemented under Parts IV and V of the Permit.	Every Annual Report	VI.A.e, pg 73
Report on a summary statement of the objective of each monitoring project included under the program.	Every Annual Report	VI.A.e.i, pg 73
Include a charge of the data from the monitoring completed.	Every Annual Report	VI.A.e.ii, pg 73
Discuss any results or conclusions derived from the monitoring completed.	Every Annual Report	VI.A.e.iii, pg 73
Discuss the monitoring program revisions that are summarized elsewhere in the report.	Every Annual Report	VI.A.e.iv, pg 73
Provide and in-depth analyses of water quality trends.	Every Annual Report	VI.A.e.v, pg 73

4.0 Financial Resources

A description of financial resources available to comply with the Permit is required and details on what this description shall include is in Section II.G, pg 43, of the permit. Based on the following, the Richland County Stormwater Program will be fully funded for NPDES MS4 compliance through 2017.

The Richland County stormwater program is funded through an ad valorem tax, though is subject to the millage cap legislation. In 2017, the stormwater department is budgeted for a \$130,000 increase in taxes, however, due to decreases in other revenue sources total revenues are expected to be lower than the previous year.

Special Revenue Funds are used to account for the proceeds of specific revenue sources (other than expendable trusts or for major capital projects) that are legally restricted to expenditures for specific purpose. The Stormwater Services Special Revenue Fund is used to account for the operations of the County Stormwater Management Program with Countywide taxes levied annually to cover the projected expenditures for the coming fiscal year. The Stormwater Management adopted budget for FY2017 is \$3,200,000. While lower than 2016, the difference is in Capital Outlays which have little impact on NPDES MS4 compliance. Personnel and operating expenditures, which do directly impact NPDES MS4 compliance have increased over previous years. Additionally, the Stormwater Department is authorized to hire an additional full-time employee, bringing the total to 19 positions, compared to 18 authorized positions in 2016.

Richland County's revenues and expenditures are summarized in Table 40. This provides a comparison to the numbers from the previous budgeted FYs.

Table 40: Richland County Fiscal Plan

	2015 Actual	2016 Adopted	2017 Adopted	Difference (\$)	Difference (%)
Revenues					
Property Taxes	\$3,155,623	\$2,945,000	\$3,075,000	\$130,000	4.4%
Fees in Lieu of Taxes	\$121,571	\$155,000	\$125,000	\$ (30,000)	-19.4%
Use of Fund Balance	\$ -	\$1,063,415	\$ -	\$ (1,063,415)	-100.0%
Total	\$3,277,194	\$4,163,415	\$3,200,000	\$ (963,415)	-23.1%
Expenditures					
Personnel Expenditures	\$1,009,193	\$1,232,999	\$1,271,863	\$38,864	3.2%
Operating Expenditures	\$956,108	\$1,089,651	\$1,123,737	\$34,086	3.1%
Capital Outlay	\$3,885,313	\$1,391,196	\$270,831	\$ (1,120,365)	-80.5%
Cost Allocation/Transfer Out	\$329,000	\$449,569	\$533,569	\$84,000	18.7%
Total	\$6,179,614	\$4,163,415	\$3,200,000	\$ (963,415)	-23.1%
Authorized FT Positions	17	18	19	1	-

Table 41: Best Management Practices -Financial Resources

FINANCIAL RESOURCES			
Action Item(s)	Schedule/Deadline	Frequency	Responsible Party
Complete a fiscal analysis of the necessary capital and operation and maintenance expenditures necessary to accomplish the monitoring and SWMP. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.G.2, pg 43</small>	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management
Create a description of the funding sources proposed to meet the necessary expenditures. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.G.2.a, pg 43</small>	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management
Determine the legal restrictions on the use of such funds. <input type="checkbox"/> NOT STARTED <input checked="" type="checkbox"/> ON-GOING <input type="checkbox"/> COMPLETED <small>SECTION: II.G.2.b, pg 43</small>	Throughout Permit Term Beginning in Year 1	Annually	Stormwater Management

Appendix A – SWMP Schedule

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Symbol Ledged

Start Action Item	◆	Diamond
Complete Action Item/Action Item Due	●	Circle
An Annual or On-going Action Item	•	Small Dot

Color Legend

Develop/Revise Documents	Orange
Training	Dark Green
Inventory	Purple
Assessment/Prioritization/Inspections/Database	Red
Maintenance/Tracking/Field Screening	Yellow
Oversight/Public Involvement/Citizen Reporting	Blue
Regulatory/Legal Authority	Light Blue
Inspection/Enforcement	Light Green
Miscellaneous	Black

Program Element Abbreviations

SC	Structural Controls and Stormwater Collection System Operation
ND&RD	Areas of New Development and Redevelopment
ER	Existing Roadways
FC	Flood Control Projects
MF	Municipal Facilities
PHF	Application of Pesticide, Herbicide, and Fertilizers (PHF)
IDID	Illicit Discharges and Improper Disposal
IR	Industrial Runoff
CSR	Construction Site Runoff
PE	Public Education & Public Participation

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Appendix B – Intergovernmental Agreements

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STATE OF SOUTH CAROLINA)	INTERGOVERNMENTAL AGREEMENT
)	FOR ROAD MAINTENANCE, DRAINAGE
)	MAINTENANCE, PLAN REVIEW,
COUNTY OF RICHLAND)	INSPECTION, AND NPDES STORMWATER
		PERMIT COMPLIANCE

This agreement, made and entered into in duplicate originals this 22ND day of July, 2003, by and between the **County of Richland**, a body politic duly created and existing pursuant to the provisions of the S.C. Code Ann. § 4-9-10 *et seq.*, (hereinafter referred to as "the County"), and the **City of Forest Acres**, a municipal corporation, created and existing pursuant to S.C. Code Ann. § 5-7-10 *et seq.* (hereinafter referred to as "the Municipality");

WITNESSETH:

ARTICLE 1 - ROADS, DRAINAGE, SEDIMENT CONTROL, PLAN REVIEW, AND INSPECTION.

WHEREAS, the Municipality wishes to provide for the maintenance of roads and drainage infrastructure within its corporate limits; and

WHEREAS, the Municipality has no staff or equipment for maintenance of roads or drainage infrastructure; and

WHEREAS, the County has staff and equipment for maintenance of roads and drainage infrastructure and provides these services in the unincorporated parts of Richland County; and

WHEREAS, the Municipality wishes to establish consistency with the County with regard to the design and construction of roads and drainage infrastructure, sediment control, and floodplain management; and

WHEREAS, the County has adopted and administers comprehensive design and construction standards for roads, drainage infrastructure, and sediment control measures constructed under its jurisdiction; and

WHEREAS, both parties hereto are authorized to enter into this agreement by virtue of the provisions of Section 4-9-40 of the South Carolina Code of Laws of 1976.

NOW, THEREFORE, in consideration of the promises, and the mutual understanding and obligations hereinafter set forth, the parties hereto agree as follows:

Section I – County Responsibilities

A. Through its Department of Public Works, the County will provide routine maintenance on all those roads, located within the corporate limits of the Municipality, that have been accepted for maintenance either by the County in accordance with Section 21-7 of the Richland County Code of Ordinances or by the Municipality.

The level of maintenance provided will be subject to the availability of funds, labor, and equipment for the County's overall road maintenance responsibility. The same level of maintenance will be provided on roads within the corporate limits as on those in unincorporated areas. Maintenance will include, but not be limited to:

- Pavement
- Drainage within the R/W
- Traffic Control signs
- Street name signs
- Shoulders, if necessary

With the exception of street name signs, the County will not provide maintenance on roads that have been taken into the State Highway System. The County will provide name signs on all roads within the corporate limits.

B. The County will incorporate the County maintained roads within the corporate limits into its pavement management system. All roads will be selected and prioritized for resurfacing based on their overall condition relative to all other roads in the pavement management system as measured by their pavement condition rating.

C. The drainage infrastructure located off of road rights-of-way within the corporate limits will be maintained by the County subject to the limitations contained in Section 21-5 of the Richland County Code of Ordinances. The level of maintenance provided will be subject to the availability of funds, labor, and equipment available for the County's overall drainage maintenance responsibilities. The same level of maintenance will be provided within the corporate limits as in unincorporated areas.

Maintenance under the terms of this agreement is comprised of, but not limited to, activities such as:

- Cleaning drainage ditches
- Cleaning and/or repairing closed storm sewers
- Cleaning and/or repairing catch basins, drop inlets, junction boxes, etc.
- Minor ditch excavation
- Minor storm sewer installation that can be accomplished by County maintenance forces.

Maintenance does not include construction of major capital drainage improvement projects. Under the terms of this agreement, a major capital drainage improvement project is one requiring a private construction contract in the judgement of the County's Public Works Director.

D. Upon the request of the Municipality, the County Engineer's Office will review the road, grading, stormwater management, and erosion control plans for new developments within the corporate limits for compliance with the County's ordinances and design standards. The County Engineer's approval or disapproval will be communicated in writing to the Municipality's planning staff.

E. The County Engineer's Office will provide construction inspections on those projects for which the plans were reviewed pursuant to Article 1, Section I-D, above. The County Engineer's determination with regard to the project's compliance with the County's construction standards and the approved plans will be communicated in writing to the Municipality's planning staff. The County Engineer's Office will also monitor and enforce implementation of the erosion control measures depicted on the approved plans.

Section II – Municipal Responsibilities

A. As a prerequisite to its authorization for the construction of new developments within the corporate limits involving new roads and/or drainage infrastructure, the Municipality will require the review and approval of plans by the County Engineer's Office.

B. As a prerequisite to its issuance of building permits or land disturbance permits for new commercial buildings within the corporate limits, the Municipality will require the review and approval of site plans by the County Engineer's Office with regard to erosion control measures, floodplain management requirements, and road access regulations. The exemptions provided for in the County's Stormwater Management Ordinance, however, will apply.

C. As a prerequisite to its acceptance of maintenance responsibilities for new roads and/or drainage systems within the corporate limits, the Municipality will require a certification from the County Engineer that they were constructed in accordance with approved plans and the County's construction specifications.

D. As a prerequisite to its issuance of certificates of occupancy for new commercial buildings within the corporate limits, the Municipality will require the inspection and approval of site improvements related to stormwater management, floodplain management, and road access.

E. The Municipality will submit, or have the developer submit, plans for developments and commercial buildings within the corporate limits to the County's Planning Department for assessment and collection of applicable subdivision processing fees. The plans will then be forwarded to the County Engineer's Office for review and approval.

F. The Municipality, within a reasonable time after the execution of this agreement, shall adopt or amend applicable ordinances as required to make them compatible with existing County ordinances and standards.

Section III - Funding

The County will assess the residents of the Municipality the same taxes and fees for the aforementioned services, and at the same rates that are assessed in the unincorporated areas of Richland County. The taxes and fees generated thereby shall be full compensation to the County for the services provided by the County pursuant to this agreement. The provisions of this section are applicable to:

- Real and personal property taxes
- Automobile registration fees
- Subdivision processing fees

"C" funds allocated to Richland County pursuant to State statute will be utilized by the County for road improvement projects within the corporate limits as well as in the unincorporated parts of Richland County. The County will initiate projects on behalf of the Municipality in accordance with its established capital road improvement programs.

Section IV – Capital Drainage Improvements

Capital improvement programs to improve drainage and reduce the impact of flooding in the unincorporated parts of Richland County are occasionally funded by the County through the issuance of bonds. To participate in these programs, the Municipality must request and agree to have the millage for bond debt service levied within the corporate limits. If approved by County Council, capital projects within the corporate limits will be eligible for inclusion in the program. The County would provide program management and project management. Project selection within the corporate limits will be done in consultation with the Municipality.

ARTICLE 2 – NPDES STORMWATER PERMIT COMPLIANCE

WHEREAS, the County, as a Phase 1 permittee under National Pollutant Discharge Elimination System ("NPDES") Permit No. SCS 400001 ("the Permit") issued by the South Carolina Department of Health and Environmental Control ("DHEC"), is implementing a Stormwater Management Plan ("SWMP"); and

WHEREAS, the Municipality must submit an application for an NPDES Permit as a Small Municipal Separate Storm Sewer Systems ("SMS4") by March 10, 2003; and

WHEREAS, the Municipality is responsible for compliance with NPDES stormwater discharge permit requirements within its corporate limits; and

WHEREAS, the Municipality's Permit allows it to partner with a Phase 1 NPDES permittee as a co-permittee to develop and implement its SWMP; and

WHEREAS, the Municipality and the County have determined that it is in the public interest that the County provide the services required by the Municipality's Permit within the corporate limits; and

WHEREAS, both parties hereto are authorized to enter into this agreement by virtue of the provisions of Section 4-9-40 of the South Carolina Code of Laws of 1976.

NOW, THEREFORE, in consideration of the promises, and the mutual understanding and obligations hereinafter set forth, the parties hereto agree as follows:

Section I – Obligation to Comply with Permit

Pursuant to this Agreement, the Municipality shall be eligible to become a co-permittee under the Permit, and as such is required to perform both the operational and the administrative tasks identified in the Permit. These tasks include:

- The implementation of ordinances, regulations, or policies to control the discharge of pollutants to Waters of the State;
- Best management programs, both structural and programmatic, to implement and enforce the conditions of the Permit; coordination of a public involvement program; and
- Monitoring, record keeping, and reporting.

A compliance schedule is provided in the Permit for the five-year period beginning April 16, 2000, and running through April 15, 2005. The Municipality and the County, acting on the Municipality's behalf under the terms of this Agreement, are responsible for ensuring compliance with the terms and conditions of the Permit within the corporate limits. The Permit encourages cooperation between the Municipality and the County and requires that a single annual progress report be issued.

Section II – County Responsibilities

Under the terms of this Agreement, the County shall be responsible for activities and services identified in the Permit, including, but not limited to, the following:

- Coordination of a public involvement program;
- Development and implementation of a public education and outreach program;
- Development and implementation of an illicit discharge detection program, including identification of the stormwater outfalls and dry weather screening and sampling of stormwater outfalls to detect non-stormwater discharges;
- Development of uniform rules and regulations for the County and Municipality for construction site runoff control and post-construction stormwater management for development and re-development;
- Assistance in compliance with the pollution prevention/good housekeeping requirements;
- Compilation of the annual permit progress report required by the Permit for Municipal Separate Storm Sewer Systems;
- Plan review and site inspections for construction site runoff control and post-construction stormwater management for development and re-development, if requested by the Municipality; and

In addition, the County may participate in capital improvement projects in cooperation with the Municipality or other entities to improve the water quality of waterbodies in Richland County.

Section III – Municipal Responsibilities

By execution of this Agreement, the Municipality agrees that it hereby consents to the delegation of authority to the County to undertake the services identified in this Agreement and authorizes the levy of the Stormwater Management Millage upon properties within the Municipality's corporate limits.

Under the terms of this Agreement, the Municipality shall be responsible for the following activities and services required by the Permit for Municipal Separate Storm Sewer Systems:

- Adopting a municipal companion ordinance that mirrors the regulatory provisions of Richland County Ordinance No. 022-01HR § I 48-14-10 et seq.;
- Administration of the subdivision review and approval process for developments within the corporate limits to ensure compliance with the stormwater management and sediment control requirements of the Permit;
- Administration of the building permit process for developments within the corporate limits to ensure compliance with the stormwater management and sediment control requirements of the Permit;
- Providing assistance to the County in identifying and removing sources of illicit discharges;
- Adopting uniform rules and regulations for construction site runoff control and post-construction stormwater management for development and re-development as developed by the County;
- Performing pollution prevention/good housekeeping activities identified in the NPDES Permit for Municipal Separate Storm Sewer Systems management plan;
- Providing information to the County on all Municipal activities as identified in the NPDES Permit for Municipal Separate Storm Sewer Systems management plan to assist the County in preparing the annual progress report to DHEC; and
- "Land disturbing activity" that is undertaken by the Municipality itself must be submitted to, and permitted by, DHEC and the County. This agreement does not cover industrial stormwater permitting necessary for municipal facilities, including, but not limited to, maintenance facilities, landfills, and materials recovery stations.

In addition, the Municipality will assist the County in completing capital improvement projects to improve the water quality of waterbodies in the Municipality, and assist the County and planning agencies to develop and adopt components of regional stormwater management master plans.

Section IV – Right-of-Entry

For the term of this Agreement, the Municipality grants to the County the status of a designated representative of the Municipality for the purposes of carrying out stormwater permit compliance services and other activities identified in this Agreement.

Section V – Funding for Services Provided by the County

The County funds its NPDES Permit compliance activities through a millage levy dedicated specifically to Stormwater Management. The same millage levied in the unincorporated parts of Richland County will be levied annually by the governing body of the Municipality on property within the corporate limits to fund the cost of providing these services to the Municipality pursuant to this agreement. Revenue generated from this millage will be used exclusively to fund NPDES Permit compliance and related stormwater management activities. Such activities will not include routine maintenance of storm drainage infrastructure or capital improvement projects intended to reduce the impacts of flooding.

Plan review and inspection activities undertaken by the County within the corporate limits pursuant to this agreement will be funded through the subdivision processing fees collected by the County's Planning Department. The same fee schedule that is applied to

developments in the unincorporated parts of Richland County will be applicable to developments within the corporate limits.

Section VI – Limitations on Liability

The Municipality is liable for compliance with all terms and conditions of the Permit within its corporate limits, and will be subject to enforcement actions resulting from non-compliance, with the exception of those activities identified in this Agreement that are to be performed on behalf of the Municipality by the County. The County assumes responsibility for completion of those tasks identified in this Agreement to the extent that the Municipality provides all required documentation, or other supporting information, to the County in a timely manner.

ARTICLE 3 - GENERAL

Section I– Severability

The provisions of this Agreement are to be considered joint and severability such that the invalidity of any one section will not invalidate the entire agreement.

Section II– Successors and Assigns

Whenever in this Agreement the Municipality or the County is named or referred to, it shall be deemed to include its or their successors and assigns and all covenants and agreements in this Agreement contained by or on behalf of the Municipality or the County shall bind and inure to the benefit of its or their successors and assigns whether so expressed or not.

Section III – Extension of Authority

The parties agree that all authorizations, empowerments, and all rights, titles, and interest referred or referenced to in this Agreement are intended to supplement the authority the County has or may have under any provision of law.

Section IV – Termination by the County

The County shall be entitled to terminate this Agreement, and the County shall be released from any obligations under this agreement if: (1) the County is rendered unable to charge or collect the applicable taxes or fee; or (2) the County Council acts to terminate this Agreement with the Municipality due to an adverse court decision affecting the intent of this Agreement.

Section V– Termination by the Municipality

The Municipality shall be entitled to terminate this Agreement, and the County shall be released from any obligations under this agreement if the Municipal governing body acts to terminate this Agreement with the County due to an adverse court decision regarding this Agreement or a contrary EPA/SC DHEC regulation or the refusal of either to issue a separate

NPDES permit to the Municipality. In the latter event, the County and the Municipality shall negotiate the inclusion of the Municipality as a co-permittee under the County's NPDES Permit.

In the event the Municipality terminates this agreement, the County shall be entitled to continue to collect all applicable taxes and fees within the Municipality for the tax year when the termination occurs. However, the Municipality will be entitled to a pro-rata distribution of such collections based on the percentage of the calendar year such services were provided.

Section VI- Insurance

For the duration of this Agreement, each party shall maintain a liability program adequate to meet at least the limits of the South Carolina Tort Claims Act.

Section VII- Duration

The duration of this Agreement shall be for a term of five (5) years, and will be automatically renewed for a like term unless one of the parties to the Agreement gives written notice to the other parties of an intent to terminate. Said notices must be given at least sixty (60) days prior to the County Auditor's calculations of the millage rates for the upcoming tax year; or unless otherwise terminated pursuant to Article III, Section IV or V, above.

Section VIII- Previous Agreements

This agreement supersedes all previous agreements between the County and the Municipality covering provision of these services.

IN WITNESS WHEREOF, the parties hereto have hereunder caused their names to be affixed as heretofore duly authorized on the date first above written.

WITNESSES:

Tony Mc Donald

Stephany Snowden

Eric S. Knight

ROBERT KEASLER

COUNTY OF RICHLAND

By: T. Cary McSwain
T. Cary McSwain
County Administrator

Richland County Attorney's Office
Amelia R. Linder
Approved As To LEGAL Form Only.
No Opinion Rendered As To Content.

CITY OF FOREST ACRES

By: Ron Garbinsky
Ron Garbinsky
City Administrator

The level of maintenance provided will be subject to the availability of funds, labor, and equipment for the County's overall road maintenance responsibility. The same level of maintenance will be provided on roads within the corporate limits as on those in unincorporated areas. Maintenance will include, but not be limited to:

- Pavement
- Drainage within the R/W
- Traffic Control signs
- Street name signs
- Shoulders, if necessary

With the exception of street name signs, the County will not provide maintenance on roads that have been taken into the State Highway System. The County will provide name signs on all roads within the corporate limits.

B. The County will incorporate the County maintained roads within the corporate limits into its pavement management system. All roads will be selected and prioritized for resurfacing based on their overall condition relative to all other roads in the pavement management system as measured by their pavement condition rating.

C. The drainage infrastructure located off of road rights-of-way within the corporate limits will be maintained by the County subject to the limitations contained in Section 21-5 of the Richland County Code of Ordinances. The level of maintenance provided will be subject to the availability of funds, labor, and equipment available for the County's overall drainage maintenance responsibilities. The same level of maintenance will be provided within the corporate limits as in unincorporated areas.

Maintenance under the terms of this agreement is comprised of, but not limited to, activities such as:

- Cleaning drainage ditches
- Cleaning and/or repairing closed storm sewers
- Cleaning and/or repairing catch basins, drop inlets, junction boxes, etc.
- Minor ditch excavation
- Minor storm sewer installation that can be accomplished by County maintenance forces.

Maintenance does not include construction of major capital drainage improvement projects. Under the terms of this agreement, a major capital drainage improvement project is one requiring a private construction contract in the judgement of the County's Public Works Director.

D. Upon the request of the Municipality, the County Engineer's Office will review the road, grading, stormwater management, and erosion control plans for new developments within the corporate limits for compliance with the County's ordinances and design standards. The County Engineer's approval or disapproval will be communicated in writing to the Municipality's Town Clerk.

E. The County Engineer's Office will provide construction inspections on those projects for which the plans were reviewed pursuant to Article 1, Section I-D, above. The County Engineer's determination with regard to the project's compliance with the County's construction standards and the approved plans will be communicated in writing to the Municipality's Town Clerk. The County Engineer's Office will also monitor and enforce implementation of the erosion control measures depicted on the approved plans.

Section II – Municipal Responsibilities

A. As a prerequisite to its authorization for the construction of new developments within the corporate limits involving new roads and/or drainage infrastructure, the Municipality will require the review and approval of plans by the County Engineer's Office.

B. As a prerequisite to its issuance of building permits or land disturbance permits for new commercial buildings within the corporate limits, the Municipality will require the review and approval of site plans by the County Engineer's Office with regard to erosion control measures, floodplain management requirements, and road access regulations. The exemptions provided for in the County's Stormwater Management Ordinance, however, will apply.

C. As a prerequisite to its acceptance of maintenance responsibilities for new roads and/or drainage systems within the corporate limits, the Municipality will require a certification from the County Engineer that they were constructed in accordance with approved plans and the County's construction specifications.

D. As a prerequisite to its issuance of certificates of occupancy for new commercial buildings within the corporate limits, the Municipality will require the inspection and approval of site improvements related to stormwater management, floodplain management, and road access.

E. The Municipality will submit, or have the developer submit, plans for developments and commercial buildings within the corporate limits to the County's Planning Department for assessment and collection of applicable subdivision processing fees. The plans will then be forwarded to the County Engineer's Office for review and approval.

F. The Municipality, within a reasonable time after the execution of this agreement, shall adopt or amend applicable ordinances as required to make them compatible with existing County ordinances and standards.

Section III - Funding

The County will assess the residents of the Municipality the same taxes and fees for the aforementioned services, and at the same rates that are assessed in the unincorporated areas of Richland County. The taxes and fees generated thereby shall be full compensation to the County for the services provided by the County pursuant to this agreement. The provisions of this section are applicable to:

- Real and personal property taxes
- Automobile registration fees
- Subdivision processing fees

"C" funds allocated to Richland County pursuant to State statute will be utilized by the County for road improvement projects within the corporate limits as well as in the unincorporated parts of Richland County. The County will initiate projects on behalf of the Municipality in accordance with its established capital road improvement programs.

Section IV – Capital Drainage Improvements

Capital improvement programs to improve drainage and reduce the impact of flooding in the unincorporated parts of Richland County are occasionally funded by the County through the issuance of bonds. To participate in these programs, the Municipality must request and agree to have the millage for bond debt service levied within the corporate limits. If approved by County Council, capital projects within the corporate limits will be eligible for inclusion in the program. The County would provide program management and project management. Project selection within the corporate limits will be done in consultation with the Municipality.

ARTICLE 2 – NPDES STORMWATER PERMIT COMPLIANCE

WHEREAS, the County, as a Phase 1 permittee under National Pollutant Discharge Elimination System ("NPDES") Permit No. SCS 400001 ("the Permit") issued by the South Carolina Department of Health and Environmental Control ("DHEC"), is implementing a Stormwater Management Plan ("SWMP"); and

WHEREAS, the Municipality must submit an application for an NPDES Permit as a Small Municipal Separate Storm Sewer Systems ("SMS4") by March 10, 2003; and

WHEREAS, the Municipality is responsible for compliance with NPDES stormwater discharge permit requirements within its corporate limits; and

WHEREAS, the Municipality's Permit allows it to partner with a Phase 1 NPDES permittee as a co-permittee to develop and implement its SWMP; and

WHEREAS, the Municipality and the County have determined that it is in the public interest that the County provide the services required by the Municipality's Permit within the corporate limits; and

WHEREAS, both parties hereto are authorized to enter into this agreement by virtue of the provisions of Section 4-9-40 of the South Carolina Code of Laws of 1976.

NOW, THEREFORE, in consideration of the promises, and the mutual understanding and obligations hereinafter set forth, the parties hereto agree as follows:

Section I – Obligation to Comply with Permit

Pursuant to this Agreement, the Municipality shall be eligible to become a co-permittee under the Permit, and as such is required to perform both the operational and the administrative tasks identified in the Permit. These tasks include:

- The implementation of ordinances, regulations, or policies to control the discharge of pollutants to Waters of the State;
- Best management programs, both structural and programmatic, to implement and enforce the conditions of the Permit; coordination of a public involvement program; and
- Monitoring, record keeping, and reporting.

A compliance schedule is provided in the Permit for the five-year period beginning April 16, 2000, and running through April 15, 2005. The Municipality and the County, acting on the Municipality's behalf under the terms of this Agreement, are responsible for ensuring compliance with the terms and conditions of the Permit within the corporate limits. The Permit encourages cooperation between the Municipality and the County and requires that a single annual progress report be issued.

Section II – County Responsibilities

Under the terms of this Agreement, the County shall be responsible for activities and services identified in the Permit, including, but not limited to, the following:

- Coordination of a public involvement program;
- Development and implementation of a public education and outreach program;
- Development and implementation of an illicit discharge detection program, including identification of the stormwater outfalls and dry weather screening and sampling of stormwater outfalls to detect non-stormwater discharges;
- Development of uniform rules and regulations for the County and Municipality for construction site runoff control and post-construction stormwater management for development and re-development;
- Assistance in compliance with the pollution prevention/good housekeeping requirements;
- Compilation of the annual permit progress report required by the Permit for Municipal Separate Storm Sewer Systems;
- Plan review and site inspections for construction site runoff control and post-construction stormwater management for development and re-development, if requested by the Municipality; and

In addition, the County may participate in capital improvement projects in cooperation with the Municipality or other entities to improve the water quality of waterbodies in Richland County.

Section III – Municipal Responsibilities

By execution of this Agreement, the Municipality agrees that it hereby consents to the delegation of authority to the County to undertake the services identified in this Agreement and authorizes the levy of the Stormwater Management Millage upon properties within the Municipality's corporate limits.

Under the terms of this Agreement, the Municipality shall be responsible for the following activities and services required by the Permit for Municipal Separate Storm Sewer Systems:

- Adopting a municipal companion ordinance that mirrors the regulatory provisions of Richland County Ordinance No. 022-01HR § I 48-14-10 et seq.;
- Administration of the subdivision review and approval process for developments within the corporate limits to ensure compliance with the stormwater management and sediment control requirements of the Permit;
- Administration of the building permit process for developments within the corporate limits to ensure compliance with the stormwater management and sediment control requirements of the Permit;
- Providing assistance to the County in identifying and removing sources of illicit discharges;
- Adopting uniform rules and regulations for construction site runoff control and post-construction stormwater management for development and re-development as developed by the County;
- Performing pollution prevention/good housekeeping activities identified in the NPDES Permit for Municipal Separate Storm Sewer Systems management plan;
- Providing information to the County on all Municipal activities as identified in the NPDES Permit for Municipal Separate Storm Sewer Systems management plan to assist the County in preparing the annual progress report to DHEC; and
- "Land disturbing activity" that is undertaken by the Municipality itself must be submitted to, and permitted by, DHEC and the County. This agreement does not cover industrial stormwater permitting necessary for municipal facilities, including, but not limited to, maintenance facilities, landfills, and materials recovery stations.

In addition, the Municipality will assist the County in completing capital improvement projects to improve the water quality of waterbodies in the Municipality, and assist the County and planning agencies to develop and adopt components of regional stormwater management master plans.

Section IV – Right-of-Entry

For the term of this Agreement, the Municipality grants to the County the status of a designated representative of the Municipality for the purposes of carrying out stormwater permit compliance services and other activities identified in this Agreement.

Section V – Funding for Services Provided by the County

The County funds its NPDES Permit compliance activities through a millage levy dedicated specifically to Stormwater Management. The same millage levied in the unincorporated parts of Richland County will be levied annually by the governing body of the Municipality on property within the corporate limits to fund the cost of providing these services to the Municipality pursuant to this agreement. Revenue generated from this millage will be used exclusively to fund NPDES Permit compliance and related stormwater management activities. Such activities will not include routine maintenance of storm drainage infrastructure or capital improvement projects intended to reduce the impacts of flooding.

Plan review and inspection activities undertaken by the County within the corporate limits pursuant to this agreement will be funded through the subdivision processing fees collected by the County's Planning Department. The same fee schedule that is applied to

developments in the unincorporated parts of Richland County will be applicable to developments within the corporate limits.

Section VI – Limitations on Liability

The Municipality is liable for compliance with all terms and conditions of the Permit within its corporate limits, and will be subject to enforcement actions resulting from non-compliance, with the exception of those activities identified in this Agreement that are to be performed on behalf of the Municipality by the County. The County assumes responsibility for completion of those tasks identified in this Agreement to the extent that the Municipality provides all required documentation, or other supporting information, to the County in a timely manner.

ARTICLE 3 - GENERAL

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Section VI- Insurance

For the duration of this Agreement, each party shall maintain a liability program adequate to meet at least the limits of the South Carolina Tort Claims Act.

Section VII- Duration

The duration of this Agreement shall be for a term of five (5) years, and will be automatically renewed for a like term unless one of the parties to the Agreement gives written notice to the other parties of an intent to terminate. Said notices must be given at least sixty (60) days prior to the County Auditor's calculations of the millage rates for the upcoming tax year; or unless otherwise terminated pursuant to Article III, Section IV or V, above.

Section VIII- Previous Agreements

This agreement supersedes all previous agreements between the County and the Municipality covering provision of these services.

IN WITNESS WHEREOF, the parties hereto have hereunder caused their names to be affixed as heretofore duly authorized on the date first above written.

WITNESSES:

Tony McDonald
[Signature]

COUNTY OF RICHLAND

By: [Signature]
T. Cary McSwain
County Administrator

[Signature]
Richland County Attorney's Office
Approved As To LEGAL Form Only.
No Opinion Rendered As To Content.

Amelia R. Linden

Elizabeth L. McI

TOWN OF ARCADIA LAKES

By: [Signature]
Richard W. Thomas, Jr.
Mayor

Appendix C – Annual Reporting Summary

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STRUCTURAL CONTROLS AND STORMWATER COLLECTION SYSTEM OPERATION			
Action Item(s)	Frequency	Section	Responsible Party
Report on the number of items added to the drainage system inventory in the reporting year.	Every Annual Report	II.B.1.d.i, pg 6, II.B.1.d.iv, pg 7	
Report on the number of inspection activities performed and scheduled in the reporting year.	Every Annual Report	II.B.1.d.i.a, pg 6, II.B.1.d.iii, pg 7, VI.A.3.c.vi.a, pg 71	
Report on the number of maintenance activities performed and scheduled in the reporting year.	Every Annual Report	II.B.1.d.i.b, pg 6, II.B.1.d.iii, pg 7, VI.A.3.c.vi.a, pg 71	
Report any QA/QC completed and any field studies conducted for data accuracy during the reported year.	Every Annual Report	II.B.1.d.i.c, pg 6	
Report on the maintenance inspection schedule for the next year.	Every Annual Report	II.B.1.d.iii, pg 7	
Identify the location of existing major stormwater structural controls, assess the need for additional ones, submit the maintenance log along with the maintenance report, and evaluate the results.	Every Annual Report	II.B.1.d.v, pg 7	
Report the number of contractual agreements obtained during the reporting year from others performing installation and maintenance of structural controls.	Every Annual Report	II.B.1.d.vi, pg 7	
Assess the accomplishments of the inspection and maintenance program in maintaining the proper operation of the structural controls in an annual evaluation. Pollutant reduction loads are expected. Summarize any modification of the inspection or maintenance activities.	Every Annual Report	II.B.1.d.vii, pg 7	
Report the date(s) the annual employee training was held.	Every Annual Report	II.B.1.c.iv, pg 6	
Report the number of attendees or attach the personnel sign in sheet from the training(s).	Every Annual Report	II.B.1.c.iv, pg 6	
AREAS OF NEW DEVELOPMENT AND REDEVELOPMENT			
Action Item(s)	Frequency	Section	Responsible Party
Report on how impervious surfaces have been minimized.	Annually starting in Second Annual Report	II.B.2.d.i, pg 9	
Report on how the BMP with the best pollutant removal performance has been selected for post-construction stormwater management.	Annually starting in Second Annual Report	II.B.2.d.ii, pg 9	
Report on how forested stream buffers and wetlands have been protected.	Annually starting in Second Annual Report	II.B.2.d.iii, pg 9	
Report on how drainage "hot spots" have been effectively addressed.	Annually starting in Second Annual Report	II.B.2.d.iv, pg 9	
Report on the implementation and incentives for water quality improvements for areas of significant redevelopment.	Second Annual Report	II.B.2.e, pg 10	

Describe policy or policy evaluation(s) within the comprehensive master planning process in Section II.B.2.c, which incorporates stormwater quality considerations into land use planning, development, and redevelopment activities. Include site performance standards required in Section II.B.2.j of the permit.	Second Annual Report	II.B.2.f, pg 10, and II.B.2.j, pg 12	
Report on water quality improvements obtained in sensitive waters in pertinent annual reports based on the evaluations of water quality monitoring data collected as required in Part V of the Permit along with inspection and maintenance results, sections II.B.2.i.iv, v(f) & (g) and j.iii-v.	Pertinent Annual Reports	II.B.2.g, pg 10	
Incorporate water quality considerations, based on II.B.2.g, into site planning and development activities to achieve water quality improvements to the MEP and to protect water quality.	Fourth Annual Report	II.B.2.h, pg 10	
Include a narrative describing the existing program to address stormwater runoff from new development and redevelopment projects, including any specific priority areas for this program, and modifications completed during the reporting period.	Every Annual Report	II.B.2.i.v.a, pg 11	
Include a narrative with a detailed explanation of how the program is specifically tailored for the local community to minimize water quality impacts and maintain pre-development runoff conditions.	Every Annual Report	II.B.2.i.v.b, pg 11	
Include a narrative with a list of non-structural BMPs in the program including: policies, ordinances, incentives, educational programs, and other measures that have been put in to place to minimize the percentage of impervious area after development.	Every Annual Report	II.B.2.i.v.c, pg 11	
Include a narrative that describes the structural BMPs in the program including, storage practices, filtration practices, and infiltration practices.	Every Annual Report	II.B.2.i.v.d, pg 11	
Include a narrative describing what ordinances or regulatory mechanisms are to be used in addressing post-construction runoff from new development and redevelopment and why the mechanism was chosen. Include a copy of the relevant sections.	Every Annual Report	II.B.2.i.v.e, pg 12	
Include a narrative that includes reasonable assurance that long-term operation and maintenance of the selected BMP will take place.	Every Annual Report	II.B.2.i.v.f, pg 12	
Include a narrative with the process to evaluate the success of the program.	Every Annual Report	II.B.2.i.v.g, pg 12	
Include a description of inspection procedures for Site Performance Standards inspections included in SWMP.	Second Annual Report	II.B.2.j.v, pg 14	
Report on water quality improvements achieved due to the verification tracking and enforcement of stormwater policies.	Every Annual Report	VI.A.3.c.vi.b, pg 71	

Report on standards and development planning procedures including inspections and maintenance.	Every Annual Report	VI.A.3.c.vi.b, pg 71	
EXISTING ROADWAYS			
Action Item(s)	Frequency	Section	Responsible Party
Report any updates on the Existing Roadway SWMP element.	Every Annual Report	II.B.3.e, pg 16	
Report on the fully implemented Existing Roadways element.	Second Annual Report	II.B.3.e.i, pg 17	
Report on all improvements to the Existing Roadways element of the SWMP.	Fourth Annual Report	II.B.3.e.ii, pg 17	
Report the number of street sweeping miles/Street sweeping schedule.	Every Annual Report	VI.A.3.c.vi.c, pg 72	
Report the number of litter control activities.	Every Annual Report	VI.A.3.c.vi.c, pg 72	
Report the number of maintenance activities on stormwater structure and roadside ditches.	Every Annual Report	VI.A.3.c.vi.c, pg 72	
FLOOD CONTROL PROJECTS			
Action Item(s)	Frequency	Section	Responsible Party
Include any updates to the Flood Control program.	Every Annual Report	II.B.4.a, pg 17	
Report on the number of flood control projects permitted in the reporting year.	Every Annual Report	II.B.4.b, pg 17	
Assess pollution discharge procedures, processes, and methods to control the discharge of pollutants from Flood Control Projects into water bodies and publicly owned lakes.	First Annual Report	II.B.4.d, pg 17	
Assess the water quality benefits of flood control projects.	Every Annual Report	VI.A.3.c.vi.d, pg 72	
Describe stormwater treatment projects that have been completed, including a description of drainage basin water quality improvements.	Every Annual Report	VI.A.3.c.vi.d, pg 72	
MUNICIPAL FACILITIES			
Action Item(s)	Frequency	Section	Responsible Party
Report on all facility inspections, both high and non-high priority facilities	Fourth Annual Report	II.B.5.a.iii, pg 18	
Report on the implementation of the municipal facilities program to identify measures to monitor and reduce pollutants in stormwater discharges from facilities that handle municipal waste.	Every Annual Report	II.B.5.b, pg 18	
Report on continuing implementation of the SWP3 for all appropriate facilities.	Every Annual Report	II.B.5.b.i, pg 20	
Report on continuing training of the appropriate personnel on SWP3 maintenance, BMP effective implementation, monthly inspection and ongoing record keeping.	Every Annual Report	II.B.5.b.ii, pg 20	
Report the number of inspections completed in reporting year.	Every Annual Report	VI.A.3.c.vi.e, pg 72	
Report the number of monitored facilities.	Every Annual Report	VI.A.3.c.vi.e, pg 72	
Report the number of implemented control measures	Every Annual Report	VI.A.3.c.vi.e, pg 72	

Report the date(s) the annual employee training was held.	Every Annual Report	II.B.5.a.i, pg 18 II.B.5.a.iv, pg 19	
Report the number of attendees or attach the personnel sign in sheet from the training(s).	Every Annual Report	II.B.5.a.i, pg 18 II.B.5.a.iv, pg 19	
APPLICATION OF PESTICIDE, HERBICIDE, AND FERTILIZERS (PHF)			
Action Item(s)	Frequency	Section	Responsible Party
Report on the implementation of the Application of PHF element.	Every Annual Report	II.B.6.e, pg 22	
Report the number of public education activities were held related to PHFs.	Every Annual Report	VI.A.3.c.vi.f, pg 72	
Report the date(s) the annual employee training was held.	Every Annual Report	II.B.6.a.v, pg 21 II.B.5.b.iv, pg 21	
Report the number of attendees or attach the personnel sign in sheet from the training(s).	Every Annual Report	II.B.6.a.v, pg 21 II.B.5.b.iv, pg 21	
ILLICIT DISCHARGES AND IMPROPER DISPOSAL			
Action Item(s)	Frequency	Section	Responsible Party
Report on the illicit connections program and include updates to the program.	Every Annual Report	II.B.7.b.v, pg 23	
Report on the success of the illicit discharge portion of ordinances or other regulatory mechanisms. Include any recommended changes to the ordinance or programmatic activities in the assessment.	Fourth Annual Report	II.B.7.b.vii, pg 23	
Assess the effectiveness of the Field Screening component of the illicit discharge and improper disposal element to determine if the level of effort is adequate in attaining the effective prohibition of non-stormwater discharges into the MS4.	Second Annual Report	II.B.7.c.iii, pg 24	
Implement changes to the program, after the assessment of the effectiveness of the Field Screening component, based on where updates are found to be necessary.	Fourth Annual Report	II.B.7.c.iii, pg 24	
Maintain a log of activities for eliminating septic system failures, summarize the activities, and report them.	Every Annual Report	II.B.7.g.v.c, pg 27	
Include a summary of the citizen complaint log documenting all reports of illicit discharges and what actions were taken to investigate and resolve the problem.	Every Annual Report	II.B.7.i.iii, pg 28	
Report on all training and follow up training provided. Include a summary of training activities and a list of personnel who received the training.	Every Annual Report	II.B.7.j.vi, pg 28	
Include the latest system map.	Every Annual Report	VI.A.3.c.vi.h, pg 72	
Report on the inspections, investigations, and enforcement actions related to spill response.	Every Annual Report	VI.A.3.c.vi.h, pg 72	
Report on the inspections, investigations, and enforcement actions related to illicit discharges or illicit connections either found during field screening reported by the public.	Every Annual Report	II.B.7.d.vi, pg 26 VI.A.3.c.vi.h, pg 72	
Report on the inspections, investigations, and enforcement actions related to oil and household hazardous waste.	Every Annual Report	VI.A.3.c.vi.h, pg 72	

Report on the inspections, investigations, and enforcement actions related to sanitary sewer and septage seepage.	Every Annual Report	VI.A.3.c.vi.h, pg 72	
Report on the inspections, investigations, and enforcement actions related to effective prohibition.	Every Annual Report	VI.A.3.c.vi.h, pg 72	
INDUSTRIAL RUNOFF			
Action Item(s)	Frequency	Section	Responsible Party
Include a list of active industrial users in Richland County	Every Annual Report	II.B.8.e.i, pg 31	
Report on steps that will be taken, during the next reporting period, to effectively address runoff from the sites for any monitoring data that indicates runoff pollution attributable to industrial runoff.	Every Annual Report	II.B.8.e.ii, pg 31	
Report the number of updated documents, procedures, and programs (findings of Section II.B.8.a, b, & c).	Every Annual Report	II.B.8.e.iii, pg 31	
Include a detailed analyses on the monitoring for industrial runoff element.	Fourth Annual Report	II.B.8.e.iv, pg 31	
Include the percent of industrial facilities inspected during the reporting period.	Every Annual Report	II.B.8.e.v, pg 31	
Report the number of inspection activities conducted in the reporting year.	Every Annual Report	II.B.8.e.iii, pg 31, VI.A.3.c.vi.h, pg 72	
Report on the results of monitoring completed during inspection year.	Every Annual Report	II.B.8.e.iii, pg 31, VI.A.3.c.vi.h, pg 72	
CONSTRUCTION SITE RUNOFF			
Action Item(s)	Frequency	Section	Responsible Party
Report the number of active construction projects in maintained inventory.	Every Annual Report	II.B.9.c.i, pg 34	
Include a summary of procedures on the plan to conduct presentations to professional organizations associated with the construction industry to discuss proper site management for water quality.	First Annual Report	II.B.9.c.v.f, pg 36	
Report on the effectiveness of the Stormwater Management Division ERP.	Every Annual Report	II.B.9.e.i, pg 37	
Report on any improvements made to the SOP for the Construction Site Runoff element that: <ul style="list-style-type: none"> a. Standardize the enforcement escalation procedures for non-compliant sites b. Implement the SOPs for conducting inspections c. Implement the schedules for inspections, including, but not limited to frequency and triggers d. Implement the SOPs for contacting other County agencies regarding MS4 items e. Document inspection and enforcement activities for each active site 	Every Annual Report	II.B.9.e.ii, pg 37	
Report the number of trainings held and number of attendees at trainings during reporting year.	Every Annual Report	VI.A.3.c.i, pg 72	
Report the number of certified construction site operators during reporting year.	Every Annual Report	VI.A.3.c.i, pg 72	

Report the number of inspections completed in reporting year.	Every Annual Report	VI.A.3.c.i, pg 72	
Report the number of enforcement actions taken during reporting year.	Every Annual Report	VI.A.3.c.i, pg 72	
PUBLIC EDUCATION AND PUBLIC PARTICIPATION			
Action Item(s)	Frequency	Section	Responsible Party
Assess the stormwater education/outreach program annually and adjust their educational materials and the delivery of such materials to address findings resulting from these assessments.	Every Annual Report	II.B.10.a.i.k, pg 39	
Include the pollution reductions expected from the BMP specified.	First Annual Report	II.B.10.a.vii, pg 40	
Include an assessment of the progress in public awareness and behavior with respect to the targeted POC resulting from the implementation of the Public Education component of this element.	Fourth Annual Report	II.B.10.a.ix, pg 40	
Provide a summary/annual assessment of public participation and education activities.	Every Annual Report	VI.A.3.c.j, pg 72	
WQBEL			
Action Item(s)	Frequency	Section	Responsible Party
Report on water quality results from measures implemented under the WQBEL provisions, II.A.2.a-b.	Annually Starting in the Second Annual Report	III.A.2.c, pg 51	
Include the determination of whether discharges from the MS4 contribute directly or indirectly to water bodies with impaired WQMS as listed in 2014 303(d) list.	First Annual Report	III.A.3.a, pg 52	
Report on the progress on implementation and DO reductions.	Every Annual Report	III.A.3.b.ii, pg 52	
Report on the progress on implementation and <i>E. coli</i> reductions.	Every Annual Report	III.A.3.c, pg 52	
Report on the corrective course of action and water quality improvements in WQMS impaired for BIO.	Every Annual Report	III.A.3.d.iii, pg 52	
Report on water quality improvements in WQMS impaired for Cu.	Every Annual Report	III.A.3.e.ii, pg 52	
Identify contribution of pollutants to sensitive water bodies from the MS4. For any specific parameter(s) in the WQS of the Sensitive Waters identify potential pollutants or surrogate parameters.	First Annual Report	III.A.4.a.i, pg 53	
Report on the attainment of intended uses and maintenance of water quality standards.	Every Annual Report	III.A.4.b.f, pg 54	
Report on the progress on WQBEL implementation and pollutant reductions.	Every Annual Report	III.A.5, pg 54	
Identify which parameters will be excluded based on the evaluation of previous data.	First Annual Report	III.B.1.e, pg 56	

MONITORING			
Action Item(s)	Frequency	Section	Responsible Party
Include a schedule for completing and submitting TMDL Implementation Plans based on the prioritized existing TMDLs listed in Appendix C of the Permit.	First Annual Report	IV.B.1, pg 57	
Submit TMDL Implementation Plans, including WQBEL, as prioritized and scheduled (first four TMDLs).	Second Annual Report	IV.B.2, pg 57	
Submit TMDL Implementation Plans, including WQBEL, as prioritized and scheduled (second four TMDLs).	Third Annual Report	IV.B.3, pg 57	
Submit TMDL Implementation Plans, including WQBEL, as prioritized and scheduled (last five TMDLs).	Fourth Annual Report	IV.B.4, pg 57	
Report on the progress of the characterization of the relative pollutant levels, for each POC, from various MS4 discharges to TMDL waters. Include resulting data following the commencement of monitoring for TMDL pollutant characterization.	Every Annual Report	IV.B.5.b.i.a.8, pg 58	
Include any updates made to the TMDL Monitoring and Assessment Plans.	Every Annual Report	IV.B.5.b.i.b.3, pg 58	
Report on any progress made to the TMDL Monitoring and Assessment Plans.	Every Annual Report	IV.B.5.b.i.b.4, pg 58	
Report on BMP implementation activities as required under Section IV.B.6.e.i-iii.	Every Annual Report	IV.B.6.e.iv, pg 59	
Report on progress on TMDL Implementation. This shall include analysis of the monitoring data, BMP performance, and progress toward the WLA.	Every Annual Report	IV.B.6.f.i-iii, pg 60	
Include a sediment, macroinvertebrate, and dissolved oxygen monitoring plan including a time frame and parameters to be sampled.	Every Annual Report	V.A.3, pg 67	
Determine the extent of any impairment, or adverse water quality impact caused by pollutants found in biosurvey data, as qualified in V.A.3.a and report these findings in the overall MS4 water quality assessment.	First Annual Report	V.A.3.a.i, pg 67	
Establish a corrective course of action to address adverse water quality impacts caused by MS4 pollutants found in biosurvey data. Evaluate and update the monitoring program, if necessary.	Second Annual Report	V.A.3.a.ii, pg 67	
Report on the progress of the permitted activities in correcting adverse water quality impacts caused by MS4 pollutants found in biosurvey data, after the course of action needed to correct the adverse water quality impact caused by MS4 pollutants found in biosurvey has been undertaken.	Fourth Annual Report (Renotification)	V.A.3.a.iii, pg 68	
Evaluate and submit a report on BMP performance based on monitoring results done to prioritize the sampling for the last two years of the permit.	Fourth Annual Report (Renotification)	V.A.3.a.iv.d, pg 68	
Revise the plan during the first half of the fifth year and submit these revisions, based on findings in the evaluation of BMP performance,	Fourth Annual Report (Renotification)	V.A.3.a.iv.f, pg 68	

Discuss the progress and results of the monitoring programs required under Parts II, III, and V. Include a summary of the monitoring program developed and implemented under Parts IV and V of the Permit.	Every Annual Report	VI.A.e, pg 73	
Report on a summary statement of the objective of each monitoring project included under the program.	Every Annual Report	VI.A.e.i, pg 73	
Include a charge of the data from the monitoring completed.	Every Annual Report	VI.A.e.ii, pg 73	
Discuss any results or conclusions derived from the monitoring completed.	Every Annual Report	VI.A.e.iii, pg 73	
Discuss the monitoring program revisions that are summarized elsewhere in the report.	Every Annual Report	VI.A.e.iv, pg 73	
Provide and in-depth analyses of water quality trends.	Every Annual Report	VI.A.e.v, pg 73	

Appendix D – SCDHEC Richland County MS4 Permit Modification Request Response Letter

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Richland County MS4 Permit Modification Request

Critical Issues (Red Comments)		Major Issues (Orange Comments)				Minor Issues (Yellow Comments)		
Compliance Issue	Absolute Language	Compliance Issue	RC	Scheduling Conflict	RC	Clarification Needed	RC	Permit Reference
Part II.B.2.c.iii.(pg.8)	Part II.B.2.d.ii.(pg.9)	Part II.B.2.a.(pg.7)	10	Part II.B.2.k.(pg.14)		Part II.B.1.d.vii.(pg.7)	7	Part II.A.1.(pg.3)
Part II.B.2.k.v.(pg.15)	Part II.B.3.b.ii.(pg.16)	Part II.B.2.c.v.(pg.9)	17, 18	Part II.B.5.a.ii.(a)(pg.18)		Part II.B.2(pg.7)	8, 9	Part II.B.1.c.(pg.5)
Part II.B.3.(pg.15)	Part II.B.7.c.iii.(e)(pg.25)	Part II.B.2.d.(pg.9)	19, 20	Part II.B.5.a.iii.(pg.19)	50	Part II.B.2.b.(pg.8)	11	Prt V.A.1.3.a.iv.(f)(p.68)
Part II.B.8.c.(pg.30)	Part II.B.7.g.iv.(pg.27)	Part II.B.2.d.i.(pg.9)	21	Part II.B.7.c.(pg.23)	58	Part II.B.2.c.(pg.8)	12, 13	Part VI.A.1.a.(pg.70)
Part III.A.2.a.iv.(pg.49)	Part II.B.9.c.v.(d)(pg.36)	Part II.B.2.j.i.(pg.13)*		Part II.B.7.c.iii.(pg.24)		Part II.B.2.d.iii.(pg.9)		
Part III.A.2.a.vi.(pg.49)	Part III.A.2.a.i.(pg.48)	Part II.B.3.b.vi.(pg.16)	49	Part II.B.7.c.iii.(f)(pg.25)		Part II.B.2.d.iv.(pg.9)	24	
Part III.A.2.b.i.(pg.50)	Part III.A.2.a.iii.(a)(pg.48)	Part II.B.5.a.iii.(a).(pg.19)	50	Part II.I Table II.I.4(pg.47)		Part II.B.2.g.(pg.10)		
Part III.A.2.b.ii.(pg.50)	Part III.A.2.b.vii.(pg.51)*	Part II.B.7.g.vi.(a)-(c)(pg.27)	63	Part VI.A.1.a.(pg.70)		Part II.B.2.h.(pg.10)	34	
Part III.A.2.b.vi.(pg.51)		Part II.B.8.a.(pg.29)		Part VI.C.1.(pg.74)		Part II.B.3.a.(pg.15)		
Part IV.C.(pg.61)		Part II.B.10.c.Table(pg.41)		Appendix F		Part II.B.3.b.iv.(pg.16)	48	
		Part III.A.2.a.iii.(c)(pg.48)	88			Part II.B.5.b.i.(pg.20)		
		Part III.A.2.a.v.(pg.49)				Part II.B.5.b.ii.(pg.20)		
		Part III.A.2.b.(pg.50)	96, 97			Part II.B.6.b.v.(pg.21)	55, 56	
		Part III.A.4.a.v.(pg.53)				Part II.B.7.c.iii.(d)(pg.25)		
						Part II.B.7.h.(pg.28)	*64*	
						Part II.B.10.a.vii.(pg.40)		
						Part III.A.4.c.(pg.54)		

*2 instances in the same section of permit

Richland County MS4 Permit Modification Request

No.	Permit Section	Permit Language	Comment	Proposed Clarification
Critical Issues Compliance Issues (Red Comments)				
1.	Part II.B.2.c.iii.(pg.8)	These may include practices such as infiltration, evapotranspiration, rain harvesting and storm water reuse and recharge that demonstrate the runoff reduction and pollution removal necessary to maintain pre-development levels to the MEP and to protect water quality.	This permit does not have the authority to require runoff reduction	Runoff reduction is one of a variety of methods for reducing pollutant loadings. This section does not require use of runoff reduction, but rather allows for runoff reduction methods to be used when appropriate.
<p>New development or redevelopment standards to be used can be either one, combination, or equivalent combination of design strategies, control measures, practices or provisions. These may include practices such as infiltration, evapotranspiration, rain harvesting and stormwater reuse and recharge that demonstrate the runoff reduction and pollution removal necessary to maintain pre-development levels to the MEP and to protect water quality. The first inch of runoff must be managed</p> <p>Richland County, Town of Arcadia Lakes, City of Forest Acres and potential future permittees must establish, implement and enforce a requirement that owners or operators of new development and redeveloped sites discharging to the MS4, which disturb greater than or equal to one acre (including projects that disturb less than one acre that are part of a <u>LCP</u>), design, install, implement, and maintain stormwater control measures that approximate pre-development conditions to the MEP and protect water quality by the <i>second ANNUAL REPORT</i>.</p> <p>New Development Standards to be used can be either one, combination, or equivalent combination of design strategies, control measures, practices or provisions such as infiltration, evapotranspiration, rain harvesting, and stormwater reuse and recharge that demonstrate the runoff reduction and pollutant removal necessary to maintain pre-development conditions to the MEP and to protect water quality. The first inch of runoff must be addressed. Appendix A contains examples of specific standards that could be adopted. Permittees must describe the site design strategies, control measures and other practices deemed necessary by the MS4 to maintain, or in the case of redevelopment improve, pre-development hydrology in order to meet these requirements.</p> <ul style="list-style-type: none"> Incentives for Redeveloped Sites. - When considered at the watershed scale, certain types of developed sites can either reduce existing impervious surfaces, or at least create less ‘accessory’ impervious surfaces. MS4 may develop a program to allow adjustments to the performance standard for new development or redevelopment sites that qualify. <p>For areas of new development, there shall be no increase in the discharge of pollutants with respect to pre-development levels to</p>				

Richland County MS4 Permit Modification Request

No.	Permit Section	Permit Language	Comment	Proposed Clarification
		<p>the "effective prohibition" and "MEP" standards from Section 402(p)(3)(B) of the Clean Water Act;</p> <ul style="list-style-type: none"> i. Impervious surfaces shall be minimized; ii. BMP with the best pollutant removal performance shall be selected for post construction storm water management; iii. Forested stream buffers and wetlands shall be protected; and, iv. Drainage “hot spots” shall be effectively addressed. <p>For areas of significant redevelopment, incentives for water quality improvements shall be developed prior to the SECOND ANNUAL REPORT and provided to the MEP when upgrading components of the MS4 or, when replacing deteriorating components of the MS4, to meet appropriate water quality criteria;</p> <ul style="list-style-type: none"> i. Forested riparian buffers will be restored; ii. Controls including, but not limited to, BMP, control techniques, and system, design and engineering methods are required to reduce the discharge of pollutants to the MEP as deemed appropriate for the control of such pollutants; and, iii. Implementation of redevelopment water quality requirements, including incentives to encourage re-development to the MEP <p>Evaluate and modify, as necessary, the post-construction element. Individual BMP, measurable goals, and responsible persons for the program must be described. This narrative must be included in the SWMP, and in the <i>ANNUAL REPORT</i>. It must include the following information, at a minimum:</p> <ul style="list-style-type: none"> (a) Description of the existing program to address stormwater runoff from new development and redevelopment projects, including any specific priority areas for this program, and modifications completed during the reporting period (c) List of non-structural BMP in the program, including, as appropriate: <p>Policies and ordinances that provide requirements and standards to direct growth to identified areas, protect sensitive areas such as wetlands and riparian areas, maintain and/or increase open space, provide buffers along sensitive water bodies, minimize impervious surfaces, and minimize disturbance of soils and vegetation.</p> <p>Policies or ordinances and incentives that encourage infill development in higher density urban areas, and areas with existing storm sewer infrastructure;</p> <p>Education programs for developers and the public about project designs that minimize water quality impacts; and</p>		

Richland County MS4 Permit Modification Request

No.	Permit Section	Permit Language	Comment	Proposed Clarification
<p>Measures such as: minimization of the percentage of impervious area after development, use of measures to minimize directly connected impervious areas, and source control measures often thought as good housekeeping, preventive maintenance and spill prevention.</p> <p><i>Methods used to support establishment of the New Development and Redevelopment Standards part of the Area of New Development and Redevelopment element of the permit must be defensible and be consistent with the MEP standard, be protective of water quality and be satisfactory to the appropriate water quality requirements of the CWA.</i></p>				
2	Part II.B.2.k.v.(pg.15)	MS4 and commercially owned, operated or maintained structural controls, storm water collection system and post-construction BMP shall be inspected and maintained, if necessary, yearly. The remaining structural controls, storm water collection system and post-construction BMP shall be inspected and maintained, if necessary, on a 25% /year basis.	This section requires the inspection and maintenance of commercially owned BMPs annually. This could be interpreted that the County must provide maintenance rather than require maintenance by the owner. This places an unusual burden on the MS4. Further, there is a scheduling conflict with annually and 25% per year. Richland County should set the inspection schedule in the SWMP in accordance with the IDDE requirements and their knowledge of critical points within the system.	This section requires that County owned structural controls should be maintained as necessary and inspected a minimum of 25%/year. The County should require that commercially owned, operated, or maintained storm water controls and BMPs be inspected yearly at a minimum and maintained as necessary.
<p>“Storm water point source” means a conveyance or system of conveyances (including but not limited to pipes, conduits, ditches and channels) primarily used for collecting and conveying storm water runoff and that is located in an urbanized area as designated by the Bureau of the Census; discharges from lands of facilities used for industrial or commercial activities.</p> <p>Permittees are expected to have a Written Standard Operating Procedures (SOP). The <i>Structural Controls and Storm Water Collection System Operation and the Areas of New Development and Redevelopment</i> elements of the SWMP must be effectively addressed in accordance to a written SOP no later than 18 months from the effective date of the permit. Among other components expected to be clearly specified in the SOP by the <i>first ANNUAL REPORT</i>, there are agreements where maintenance responsibilities are in place.</p> <p><i>It is expected that MS4 and commercially owned, operated or maintained structural controls, storm water collection system and post-construction BMP shall be inspected and maintained, if necessary, yearly. The remaining structural controls, storm water collection system and post-construction BMP shall be inspected and maintained, if necessary, on a 25% /year basis.</i></p> <p><i>Detailed inspection reports with extensive explanation of results and correction actions taken must be part of the MS4 inventory of Structural Controls and Storm Water Collection System and of Post-Construction BMP in areas where new development and redevelopment has taken place.</i></p> <p><i>Whether permittees conduct the inspection and maintenance (or require commercially owned facilities to perform it by</i></p>				

Richland County MS4 Permit Modification Request

No.	Permit Section	Permit Language	Comment	Proposed Clarification
<p><i>themselves), or if the permittees themselves contract the inspection and maintenance shall be stated in the written SOP. Documentation and reporting of Inspection and maintenance of Post Construction BMP are expected in the quantity and, frequency required by the permit.</i></p>				
3.	Part II.B.3.(pg.15)	<ul style="list-style-type: none"> • Water turnouts, drainage systems designed to reduce the volume and velocity of ditch flow, shall be constructed in conjunction with the roadside drainage ditches in accordance with accepted roadway drainage practices • Existing turnouts must direct diverted flow onto vegetated areas where it can be adequately dispersed. The turnouts shall not direct diverted flow or road runoff into Waters of the State to the MEP. 	<p>The County was told during the permit negotiation process that these bullets would be removed.</p> <p>This section regulates volume and velocity and is not supported by the federal register. This section is very confusing (e.g., are volume controls required in every ditch?) and required compliance with SCDOT standards (not allowing for more or less stringent standards, if desired, and what is SCDOT standards change or are rescinded?).</p>	<p>Option A: Delete language through a minor modification to the permit</p> <p>Option B: Clarify that the section implies that these standards will be applied where appropriate.</p>
<p>In response to comments, this section was edited prior to the final permit decision to avoid prescriptiveness. Water turnouts are drainage systems designed to reduce the volume and velocity of ditch water flow. These water turnouts shall be constructed in conjunction with the roadside drainage ditches in accordance with accepted roadway drainage practices. Existing turnouts must direct diverted water flow onto vegetated areas where flow energy can be adequately dispersed prior to discharge. Turnouts shall not direct diverted water flow or road runoff directly into waters of the State to the MEP. <i>The Existing Road Runoff Element of the Storm Water Management Program must implement practices for operating and maintaining public streets, roads and highways and procedures for reducing the impact on receiving waters from discharges from these areas including pollutants discharged.</i></p>				
4.	Part II.B.8.c.(pg.30)	<p>Monitor for Industrial Runoff: The County shall continue to implement a monitoring (or self monitoring) program as required in Parts III. A. I, 2.a.viii & b.viii, 3, 4; IV and V, which includes analytical monitoring for stormwater discharges associated with:</p> <ul style="list-style-type: none"> i. industrial facilities identified in II.B.8.a, above, v. facilities subject to effluent guidelines (40 CFR Subchapter N), SC R. 61-9 122.26(b)(14)(i), vi. facilities with existing NPDES permit, vii. facilities where it is known, or there is reason to believe, that any of the pollutants Tables II, III & IV of Appendix D is present as required under SC R. 61-9 122.21(g)(7)(vi) & (vii). 	<p>Could require monitoring at a large number of facilities. Also, facilities that are covered under the IGP are already required to monitor. Tables referenced in vii do not exist in Appendix D. Redundant with IDDE program. Why sample the industrial discharge if POC is not showing up at the outfall?</p>	<p>In the context of this requirement, “self-monitoring” means that the County does not have to monitor facilities identified in parts i., v., vi., and vii. that are currently monitoring themselves. Further, outfall dry weather screening constitutes “monitoring”.</p>

Richland County MS4 Permit Modification Request

No.	Permit Section	Permit Language	Comment	Proposed Clarification
<p>Richland County is required to monitor and control pollutants in storm water discharges to municipal systems from municipal landfills, hazardous waste treatment, disposal and recovery facilities, industrial facilities that are subject to section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA), and industrial facilities that the County determines are contributing a substantial pollutant loading to the MS4. The monitoring program for storm water discharges associated with the industrial facilities identified in paragraph (d)(2)(iv)(C) of this section, to be implemented during the term of the permit, includes the submission of quantitative data on the following constituents: any pollutants limited in effluent guidelines subcategories, where applicable; any pollutant listed in an existing NPDES permit for a facility; oil and grease, COD, pH, BOD5, TSS, total phosphorus, total Kjeldahl nitrogen, nitrate plus nitrite nitrogen, and any information on discharges required under this permit. Tables II, III & IV of Appendix D refer to Refer to 40 CFR Part 122, Appendix D; where, table II is the Organic Toxic Pollutants in Each of Four Fractions in Analysis by Gas Chromatography/Mass Spectroscopy (GS/MS), table III is the Other Toxic Pollutants (Metals and Cyanide) and Total Phenols, and table IV is the Conventional and Nonconventional Pollutants Required To Be Tested by Existing Dischargers if Expected to be Present. Quantitative results for Hazardous Substances Required To Be Identified by Existing Dischargers if Expected To Be Present in stormwater discharges should also be submitted.</p> <p>https://www.gpo.gov/fdsys/pkg/CFR-2010-title40-vol21/pdf/CFR-2010-title40-vol21-part122-appD.pdf</p> <p>This section was edited prior to the final permit decision.</p> <p><i>Richland County is expected to have adequate legal authority to:</i></p> <ol style="list-style-type: none"> <i>1. Control through ordinance, permit, contract, order or similar means, the contribution of pollutants to the MS4 by storm water discharges associated with industrial activity and the quality of storm water discharged from sites of industrial activity, and,</i> <i>2. Carry out all inspection, surveillance and monitoring procedures necessary to determine compliance and non-compliance with permit conditions. (See subparts II.A, above, and II.F & I, below, in this permit). The County must have the legal authority necessary to require industries to self-monitor in order to provide analytical data necessary to demonstrate compliance with permit conditions affected by their discharges.</i> 				
5.	Part III.A.2.a.iv.(pg.49)	iv. Where redevelopment occurs, water quality must be improved when upgrading, or replacing MS4 components to meet the WLA / WQS as follow:	This sets an unrealistic requirement that cannot always be obtained and should be deleted or revised. Even if discharge of DO depleting pollutants is reduced to zero from a single site, there may not be a noticeable change in the receiving water DO levels. Since this is under the Dissolved Oxygen section, does this standard only apply to DO?	"Where redevelopment occurs, water quality must be improved" means the water quality associated with storm water runoff from the site must be improved to the MEP.
<p>The NPDES storm water program regulates MS4 discharges to protect water quality. The proposed permit requires the development,</p>				

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		<p>implementation, and enforcement of a storm water management program designed to reduce the discharge of pollutants from the MS4 to the MEP, to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act. Elements in Part II of the permit include BMP designed to satisfy the “best available” and “best conventional” (BAT & BCT) technology requirements. Implementation of these BMP consistent with the SWMP provisions in Part II constitute compliance with the standard of reducing pollutants to the “MEP”.</p> <p>Where sources located within the jurisdiction of a discharger are subject to WQBEL, pollutant sources in that specific jurisdiction shall be subject to the same WQBEL.</p> <p>MS4 discharges authorized in the proposed permit have been determined to contribute to a violation of a water quality standard or to be a significant contributor of pollutants to waters of the State. The following factors were considered while imposing these WQBEL:</p> <ul style="list-style-type: none"> (A) The location of the discharge with respect to receiving waters; (B) The size of the discharge; (C) The quantity and nature of the pollutants discharged; and (D) Factors such as Total Maximum Daily Loads (TMDL), Water Quality Monitoring Station (WQMS) impairments (303(d)) and sensitive waters (classified as ONRW, ORW and TPGT). <p>These WQBEL are needed based on a “TMDL” approved or established by EPA that addresses the pollutant(s) of concern, impaired water quality monitoring stations (303(d) WQMS) that do not have a TMDL and sensitive waters. Waste Load Allocations (WLA) for point sources in TMDL are needed to protect water quality based on consideration of existing in-stream concentrations and in pollutant contributions from MS4 sources, among other factors. Pollutants of concern in Part III of the proposed permit include Dissolved Oxygen (DO), Escherichia Coli (E.coli), BIO (or a parameter that addresses macroinvertebrate impairment such as imperviousness), Copper (Cu) and any other pollutant that has been identified as a cause of impairment of any water body that will receive a discharge from the MS4. Authorized storm water discharges subject to these WQBEL will occur, within the drainage area addressed by the TMDL, 303(d) WQMS or whose presence is deleterious to sensitive waters and its intended uses.</p> <p>Water bodies receiving MS4 discharges, include downstream segments, lakes and estuaries, where pollutants from the MS4 discharges accumulate and cause water degradation. WQBEL apply to; areas where there are known water quality impacts to TMDL watersheds and to 303(d) and sensitive waters; discharges that causes, has a reasonable potential to cause, or contributes to an instream excursion above an applicable water quality standard, including designated uses; and, reflect water quality concerns requiring the MS4 to assess, evaluate, prioritize and retrofit control devices to provide the additional pollutant removal necessary to protect water quality by considering the adverse impacts associated with MS4 discharges. The goal of these WQBEL is to prevent MS4 discharges from causing exceedances of water quality standards, including impairment of designated uses, or other adverse water quality impacts, including habitat and biological impacts. For the purpose of Part III, the non-numeric, narrative, effluent limitations requiring implementation of specific BMP are the most appropriate form of WQBEL (including reduction of pollutants to the MEP) to protect water quality. WQBEL are based on TMDL, 303(d) WQMS) and Sensitive Waters. The proposed</p>		

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<p>permit requires that the permittee monitors parameters in the stream receiving permitted discharges to identify water quality improvements. WQBEL are necessary to achieve water quality standards (WQS) by; controlling all 303(d) pollutants of concern (POC); accounting for existing controls on point and nonpoint sources of pollution for discharges that cause, has the reasonable potential to cause, or contributes to in-stream excursions of WQS; ensuring that WQBEL are consistent with the assumptions and requirements of any available WLA for the discharge. The WQBEL listed in Part III.A.2.a from i to xi, specifically apply, in the manner prescribed, to watersheds draining to WQMS impaired for DO.</p> <p><i>When evaluating compliance with water quality-based effluent limitations in this permit, it shall be ensured that:</i></p> <p><i>(A) The level of water quality achieved by implementing the limitations on point sources established under the derived from, and complies with all applicable water quality standards; and</i></p> <p><i>(B) WQBEL implemented to protect a narrative water quality criterion, a numeric water quality criterion, or both, are consistent with the assumptions and requirements of any available wasteload allocation for the discharge prepared by the State and approved by EPA pursuant to 40 CFR 130.7.</i></p>				
6.	Part III.A.2.a.vi.(pg.49)	vi. Municipal operations, and activities, in the watershed must eliminate their potential to discharge oxygen depleting pollutants.	This is similar in nature to comments on Section III.A.2.a.iv, p 49 and exceeds the MEP standard. No mention of MEP. For example, a tree (dead leaves) has the potential to cause a discharge of oxygen depleting pollutants.	"Eliminate their potential" means to eliminate sources to the MEP.
7.	Part III.A.2.b.i.(pg.50)	i. Structural controls, including flood control projects, detaining large amounts of water over a period of time shall be managed to prevent increased bacteria levels .	This is not possible to control except through extraordinary means. What is a large amount of water?	Implies to control levels of bacteria from sources of pet and human waste to the MEP.
8.	Part III.A.2.b.ii.(pg.50)	ii. The storm sewer system shall be proactively maintained with the frequency necessary to ensure that pathogens will not be discharged.	This is impossible to achieve.	The emphasis of this section is pathogens, therefore, activities should focus on detecting, locating and correcting cross-connections with sanitary sewer systems to the MEP.
9.	Part III.A.2.b.vi.(pg.51)	vi. Municipal activities, and operations, in the watershed must eliminate their potential to discharge pathogens .	Same as comment for Sections III.A.2.a.iv and III.A.2.a.vi. No mention of MEP here and this is an unrealistic requirement that cannot always be obtained. For example, a bird flying overhead has the potential to cause bacteria to be deposited and washed off of the site.	"Eliminate their potential" means to eliminate sources to the MEP. Further, the emphasis of this section is pathogens, therefore, activities should focus on eliminating human waste to the MEP.
<p>While there is a practical aspect to Storm Water Management Program (SWMP) implementation, the minimum requirement of the permit is to develop, implement, and enforce a SWMP designed to reduce the discharge of pollutants from the MS4 to the</p>				

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<p>maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act. After two permit cycles, increased number of adverse water quality impacts, non-numeric water quality based effluent limitations expressed as permit requirements became necessary to achieve water quality standards and /or to protect narrative water quality criteria, numeric water quality criteria, or both, as consistent with the assumptions and requirements of available wasteload allocations. <i>Implementation of the WQBEL in Part III.A of the permit is expected to reverse the adverse pollution trends; therefore, protecting water quality.</i></p>				
10.	Part IV.C.(pg.61)	C. Impaired Water Quality Monitoring Stations (WQMS)	This section implies that monitoring will be required at all outfalls in watersheds with a known impairment. This is overly burdensome and unnecessary.	Compliance means, "monitoring only those outfalls determined to contribute directly, or indirectly, to the impairment."
<p>Part III.B provides the opportunity to establish a baseline to assess direct and indirect MS4 pollutant loads contributing to these impairments. In this way, the level of analytical monitoring effort necessary to demonstrate the effective implementation of the WQBEL required in Part III.A to correct and improve WQMS impairments as required in Part IV.C can be discerned. <i>Correction and /or improvement of the alluded impairment is the measure of compliance for the WQMS in question.</i></p>				

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11.	Part II.B.2.d.ii.(pg.9)	ii. BMP with the best pollutant removal performance shall be selected for post construction storm water management;	This section only allows consideration of highest pollutant removal. Setting the standard of BMP with the best pollutant removal performance discounts other practices that may be able to achieve the required results with less operation and maintenance, life cycle costs, more effective use of space, etc.	For the purpose of this permit "best pollutant removal" considers the impact of operation and maintenance, life cycle costs, and other design and construction criteria and does not imply that a BMP with a higher removal efficiency should be selected over one that meets the design criteria, but has lower costs, more effective use of land, etc
<p>Part II of the permit, the SWMP, is predicated on MEP standard. It means that if implemented to the MEP (Maximum Extent Practicable), and not the mep (minimum extent possible) pollutant loads from urban runoff discharges should not have a deleterious effect on receiving water quality. MEP consists of five elements: the effectiveness to address the pollutant(s) of concern, public acceptance, cost, technical feasibility, and compliance with Federal, State and local laws and regulations. The following link (NO ENDORSEMENT TO THE PRODUCT ADVERTISED) clearly illustrates the 'balance' of the MEP concept. https://www.youtube.com/watch?v=qsQPGVseIHM</p>				
12.	Part II.B.3.b.ii.(pg.16)	ii. Amount of soil disturbance must be limited to just the immediate area under repair,	Almost always need a larger area than "just the area under repair".	Immediate area means the area under construction and an appropriate adjacent area required to safely and properly complete

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				construction.
<p>Measures described in II.B.3 of the permit are appropriate to control pollutants in storm water discharges associated with small linear construction activities like those found in road projects identified by this SWMP elements. The observed practice of stockpiling sediment alongside areas beyond “just the immediate area” under repair are indicative of sediment control practices that may be qualified as marginal at best. Land disturbing activities beyond “just the immediate area” under repair are; ineffective in addressing sediment; resulting sediment mounds, at the very least, create an eyesore; cubic yards resulting from unnecessary disturbance result in increasing costs; and, run counter to Federal, State and local requirements to properly control sediment. <i>Implementation of the SOP required in the permit will effectively address the lack of stormwater pollution prevention in road maintenance, BPJ.</i></p>				
13.	Part II.B.7.c.iii.(e)(pg.25)	(e) An internal log documenting the results of all field screening performed shall be maintained. This shall include identification of direct and illicit discharges and a surveillance inspection program to effectively address high bacteria count concerns by eliminating all illicit sources to achieve the "effective prohibition" and "MEP" standards from Section 402(p)(3)(8) of the Clean Water Act and to be consistent with South Carolina Pollution Control Act, Title 48, Chapter I of the Code of Laws of South Carolina.	As noted in the IDDE section of the permit, it is not always possible to determine the source of an illicit much less eliminate it. This requirement will almost certainly cause the County to be in non-compliance with the permit from the effective date onward.	While this section contains “eliminating all illicit inspections” it also contains the MEP standard. The County is required to identify and eliminate discharges containing high bacteria counts. Further all bacteria means “non-naturally” occurring pathogenic bacteria such as pet waste and human waste.
<p>Permits for discharges from municipal storm sewers may be issued on jurisdiction-wide basis; shall include a requirement to effectively prohibit illicit discharges; and shall require controls to reduce the discharge of pollutants to the MEP. For the third iteration of this, a phase I Medium MS4 NPDES stormwater permit, <i>field screening, including identification of direct and illicit discharges and a surveillance inspection program to effectively address high bacteria count concerns, to eliminate all illicit sources is the minimum level of effort expected to be implemented to achieve compliance with the "effective prohibition" and "MEP" standards from Section 402(p)(3)(B) of the Clean Water Act and to be consistent with South Carolina Pollution Control Act, Title 48, Chapter 1 of the Code of Laws of South Carolina.</i></p>				
14.	Part II.B.7.g.iv.(pg.27)	iv. Permittees will detect and address all infiltration, inflow and cross connections through the Public Sewer Districts (PSD) in the MS4. Previously unknown problems shall be addressed upon discovery. Advise appropriate utility owner of violation if constituents common to wastewater contamination are	Unrealistic to address all infiltration etc., further, this is a function of the sanitary sewer provider.	It is expected that the County will work with public sewer districts within Richland County to detect and address infiltration, inflow, and cross connections to the MEP.

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		discovered in the MS4 during field screening or routine system inspections.		
<p><i>One of the regulatory requirements of the Illicit Discharges and Improper Disposal element of the SWMP is to detect and remove (or require the discharger to the MS4 to obtain a separate NPDES permit for) illicit discharges and improper disposal into the storm sewer. The Illicit Discharges and Improper Disposal element shall include controls to limit infiltration of seepage from municipal sanitary sewers to municipal separate storm sewer systems where necessary.</i></p>				
15.	Part II.B.9.c.v.(d)(pg.36)	(d) Retain at least one Certified Stormwater Operator/Inspector on staff at all times (these individuals shall be either field supervisors, heavy equipment operators actively involved in County earth moving activities, or engineering staff responsible for specifying erosion control measures for Permittees activities).	The County has no control on when people leave employment. Even if the County hires several certified inspectors, it is conceivable that they could all leave at one time leaving the County non-compliant. There should be some time allowance to provide for hiring of staff.	SCDHEC realizes that the County may have periods of time without a Certified Stormwater Operator/Inspector on staff. During such times the County must proceed with training of existing staff or be actively engaged in the hiring process of appropriately trained replacement staff to replace the unfilled position in a timely manner.
<p>Municipalities must secure resources to comply with permit conditions and to implement the storm water program. The storm water program shall include the staff required to implement the program. BMP, control techniques, and proper system design and engineering methods are all integral part of this element. It makes it paramount to count on qualified and certified personnel. When found deficient, as the Department audit for this element demonstrated, the necessary resources to implement this element shall be met. <i>Audit recommendations are expected to be fully addressed. Training and retention requirements are expected to be met.</i></p>				
16.	Part III.A.2.a.i.(pg.48)	i. Pollutants (including floatables) from all conveyances (including roadways) must be controlled. It must be demonstrated that removal efficiency of oxygen depleting pollutants for BMP implemented to this effect must approximate the WLA I WQS.	Will not be possible to have this apply to all conveyances Confusing language.	<ul style="list-style-type: none"> a. This section should only reference dissolved oxygen issues. Consider deleting "(including floatables)" as a minor permit modification. b. SCDHEC realizes that controlling pollutants from all conveyances including roadways is unreasonable. The MEP standard should apply to this section. c. Issue a minor permit modification such that the second sentence reads, "The removal efficiencies of BMPs for oxygen depleting pollutants must approximate the WLA/WQs, to the MEP".

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17.	Part III.A.2.a.iii.(a)(pg.48)	(a) BMP with the best removal performance for oxygen depleting substances must be implemented to the MEP.	This phrase is used throughout this section and leaves no room for other considerations such as cost, safety, efficiency etc. Even though a BMP may meet the requisite criteria, only the one with the best removal performance can be used.	For the purpose of this permit “best pollutant removal” considers the impact of operation and maintenance, life cycle costs, and other design and construction criteria and does not imply that a BMP with a higher removal efficiency should be selected over one that meets the design criteria, but has lower costs.
18.	Part III.A.2.b.vii.(pg.51)*	vii. All illicit discharges of sewage and /or seepage must be detected and eliminated. These include dry and wet weather overflows from sanitary sewers, infiltration of seepage from sanitary sewers and from septic tanks. The "effective prohibition" in 402(p)(3)(B)(ii) of the CWA is applicable to these non-stormwater discharges. Fully documenting the total eradication of these discharges is required.	Impossible/unrealistic requirement	This section is subject to the MEP standard. It is also recognized that the County does not have authority over all Public Sewer Districts in the County.

As stated in the answer to comments 7, 8 & 9, above, Part II of the permit deals with the implementation of the SWMP. Proper implementation of the SWMP is predicated on the MEP standard. Adverse water quality impacts makes it necessary to develop water quality-based non-numeric effluent limitations (WQBEL) to ensure that water quality standards are protected and that applicable provisions of the CWA are met.. WQBEL contained in part III.2.a of the permit must be implemented to effectively address impairments where DO is the POC. Illicit discharges of sewage and seepage are expected to be completely eradicated for reaches adversely impacted by *E.coli*.

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<i>Basis for Performance Standard</i>	<i>Description</i>	<i>Performance Standard</i>
<i>Rainfall</i>	<i>Minimum storm volume to be retained on site.</i>	<i>Design, construct, and maintain stormwater management practices that manage rainfall on-site, and prevent the off-site discharge of the precipitation from [insert standards, such as “the first one inch of rainfall from a 24-hour storm preceded by 48 hours of no measurable precipitation”]. Discharge volume reduction can be achieved by canopy interception, soil amendments, evaporation, rainfall harvesting, engineered infiltration, extended filtration and/or evapotranspiration and any combination of the aforementioned practices. This first one inch of rainfall must be 100% managed with no discharge to surface waters, except when the permittee chooses to implement the Incentives for Redeveloped Sites in Part II.B.2.j.i, above.</i>
<i>Rainfall</i>	<i>Minimum storm size to be retained on site</i>	<i>Design, construct, and maintain stormwater management practices that manage rainfall on-site, and prevent the off-site discharge of the precipitation from all rainfall events less than or equal to [insert standards, such as “the 95th percentile rainfall event”]. This objective must be accomplished by the use of infiltration, evapotranspiration and/or harvest and reuse of rainwater. The 95th percentile rainfall event is the event whose precipitation total is greater than or equal to 95 percent of all storm events over a given period of record.</i>
<i>Recharge/Runoff</i>	<i>Hydrologic</i>	<i>Design, construct, and maintain stormwater management practices that preserve the pre-</i>

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<i>Basis for Performance Standard</i>	<i>Description</i>	<i>Performance Standard</i>
	<i>Analysis</i>	<i>development runoff conditions following construction. The post-construction rate, runoff volume, peak flow, duration and temperature of discharges must not exceed the pre-development rates and the pre-development hydrograph for 1, 2, 10, 25, 50 and 100 year storms must be replicated through site design and other appropriate practices. These goals must be accomplished through the use of infiltration, evapotranspiration, and/or rainwater harvesting and reuse practices. Defensible and consistent hydrological assessments and modeling methods must be used and documented.</i>
<i>Recharge</i>	<i>Groundwater Recharge Requirements</i>	<i>Any “major development” project, which is one that disturbs [insert standards, such as at least one (1) acre of land or creates at least 0.25 acres of new or additional impervious surface], must comply with one of the following two groundwater recharge requirements:</i> <ul style="list-style-type: none"> <i>• Demonstrate through hydrologic and hydraulic analysis that the site and its stormwater management measures maintain 100 percent of the average annual pre-construction groundwater recharge volume for the site; or</i> <i>• Demonstrate through hydrologic and hydraulic analysis that the increase of stormwater discharges volume from pre-construction to post-construction for the two-year storm is infiltrated.</i>
<i>Annual Pollutant Load</i>	<i>Loading</i>	<i>Design, construct and maintain stormwater management practices that preserve the pre-</i>

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<i>Basis for Performance Standard</i>	<i>Description</i>	<i>Performance Standard</i>
	<i>Calculations</i>	<i>development runoff conditions following development. Post construction annual pollutant loads are not allowed to exceed pre-development levels. Whenever and wherever appropriate, runoff volume and peak discharge rates for specific design storms should be taken into account as well. These goals will be accomplished through low impact development practices (LID) including impervious cover limitations and treatment means. Water quality modeling methods used to support establishment of this standard must be defensible and be consistent with the MEP standard, to protect water quality and to satisfy the appropriate water quality requirements of the CWA.</i>