



NPDES PHASE II STORMWATER MANAGEMENT PROGRAM

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PART 1: INTRODUCTION

The purpose of this Stormwater Management Plan (SWMP) is to establish and define the means by which the Town of Indian Trail will comply with its National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit and the applicable provisions of the Clean Water Act to meet the federal standard of reducing pollutants in stormwater runoff to the maximum extent practicable.

This SWMP identifies the specific elements and minimum measures that the Town of Indian Trail will develop, implement, enforce, evaluate and report to the North Carolina Department of Environmental Quality (NCDEQ) Division of Energy, Minerals and Land Resources (DEMLR) in order to comply with the MS4 Permit number NCS000453, as issued by NCDEQ. This permit covers activities associated with the discharge of stormwater from the MS4 as owned and operated by the Town of Indian Trail and located within the corporate limits of the Town of Indian Trail.

In preparing this SWMP, the Town of Indian Trail has evaluated its MS4 and the permit requirements to develop a comprehensive 5-year SWMP that will meet the community's needs, address local water quality issues and provide the minimum measures necessary to comply with the permit. The SWMP will be evaluated and updated annually to ensure that the elements and minimum measures it contains continue to adequately provide for permit compliance and the community's needs.

Once the SWMP is approved by NCDEQ, all provisions contained and referenced in this SWMP, along with any approved modifications of the SWMP, are incorporated by reference into the permit and become enforceable parts of the permit. Any major changes to the approved SWMP will require resubmittal, review and approval by NCDEQ, and may require a new public comment period depending on the nature of the changes.

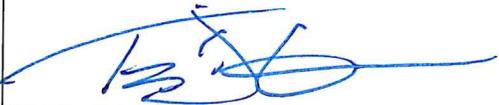
PART 2: CERTIFICATION

By my signature below I hereby certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

I am also aware that the contents of this document shall become an enforceable part of the NPDES MS4 Permit, and that both the Division and the Environmental Protection Agency have NPDES MS4 Permit compliance and enforcement authority.

- I am a ranking elected official.
- I am a principal executive officer for the permitted MS4.
- I am a duly authorized representative for the permitted MS4 and have attached the authorization made in writing by a principal executive officer or ranking elected official which specifies me as (*check one*):
 - A specific individual having overall responsibility for stormwater matters.
 - A specific position having overall responsibility for stormwater matters.

Signature:	
Print Name:	TODD P. HUNSINGER
Title:	DIRECTOR OF ENGINEERING
Signed this 17 day of 2023. NOVEMBER	



2022 Town of Indian Trail Outfall Inventory

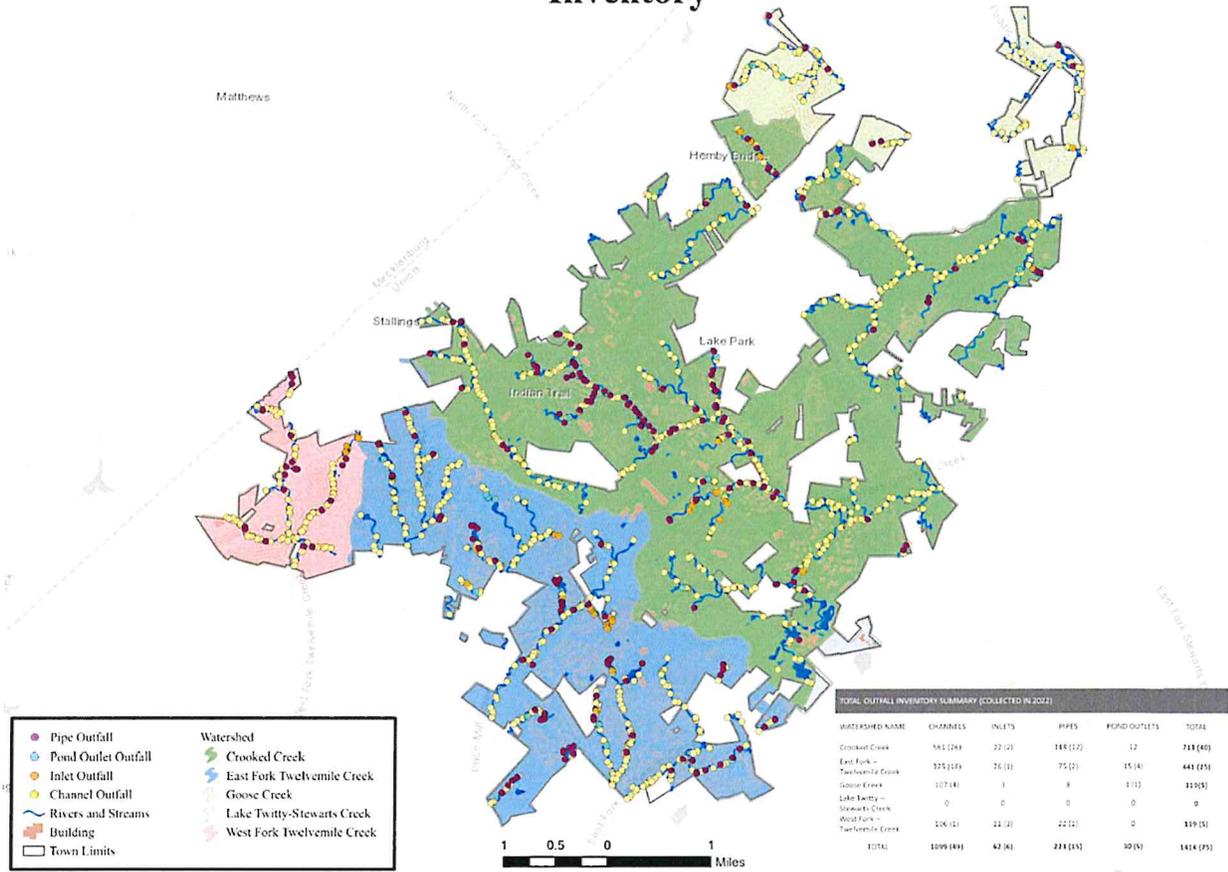


Table 1: Summary of Current MS4 Mapping

Percent of MS4 Area Mapped	100	%
No. of Channel Outfalls* Mapped	1101	total
<p>NOTE: This number is less than what was previously reported but is exactly based on our survey</p>		

*An outfall is a point where the MS4 discharges from a pipe or other conveyance (e.g. a ditch) directly into surface waters. Major outfalls are required to be mapped to meet permit requirements. A major outfall is a 36-inch diameter pipe or discharge from a drainage area > 50-acres; and for industrial zoned areas a 12-inch diameter pipe or a drainage area ≥ 2-acres.

Major outfalls number shown in Table 1 above, is the total for all channel, inlet, and pipe outfalls located in Town in 2023. Town recently did an outfall inventory update in FY21/22.

3.3 Receiving Waters

The Town of Indian Trail MS4 is located within the Yadkin Pee-Dee and Catawba River Basins and discharges directly into receiving waters as listed in Table 2 below. Applicable water quality standards listed below are compiled from the following NCDEQ sources:

- [Waterbody Classification Map](#)
- [Impaired Waters and TMDL Map](#)
- Most recent NCDEQ Final [303\(d\) List](#)

Table 2: Summary of MS4 Receiving Waters

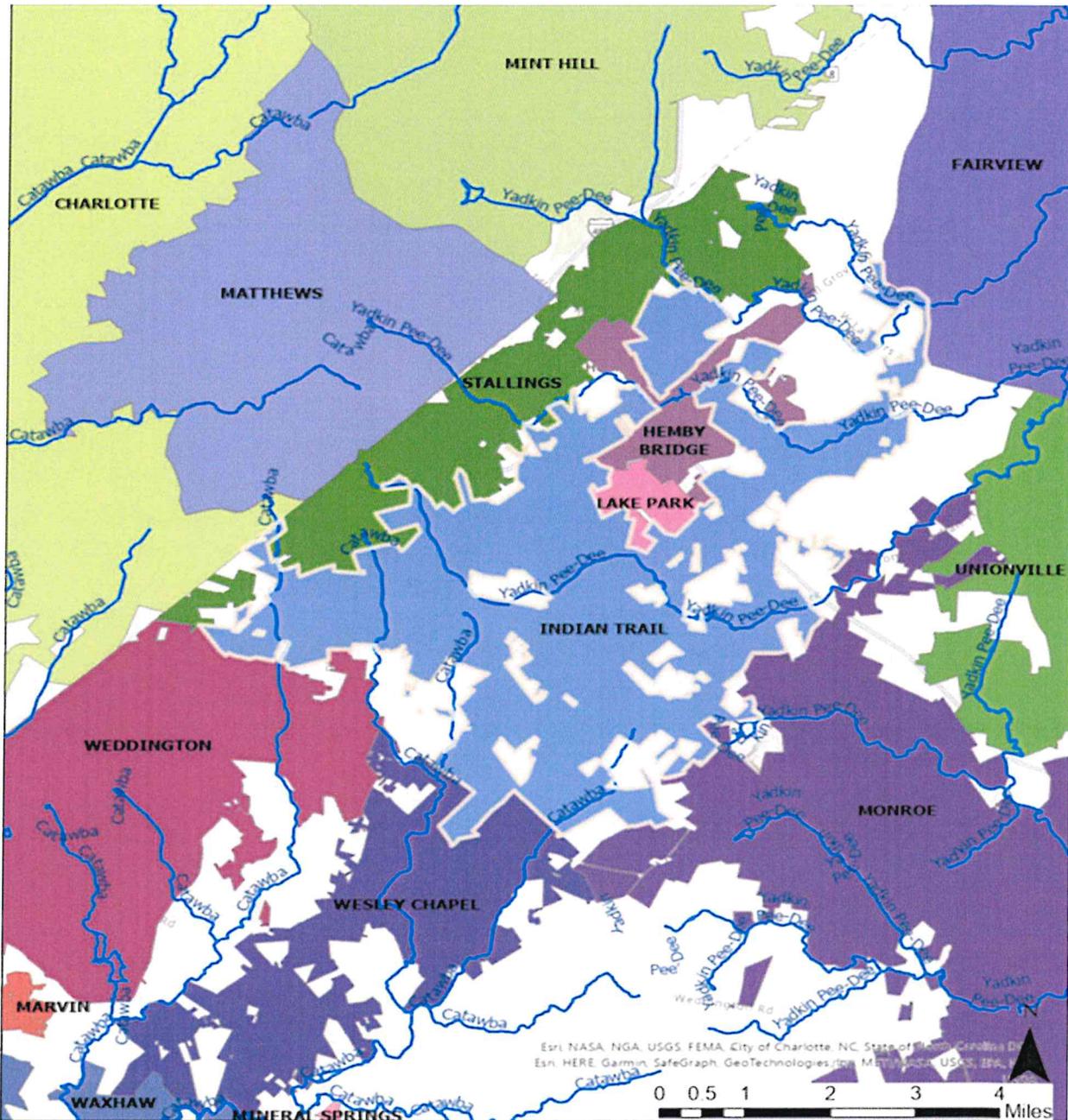
Receiving Water Name	Stream Index / AU Number	Water Quality Classification	303(d) Listed Parameter(s) of Interest
Crooked Creek	13-17-20	C	Exceeding Criteria
North Fork Crooked Creek	13-17-20-1	C	Exceeding Criteria
South Fork Crooked Creek	13-17-20-2a	C	Exceeding Criteria
South Fork Crooked Creek	13-17-20-2b	C	Exceeding Criteria
Davis Mine Creek	11-138-2-2-1	C	Not on 303(d) list
Goose Creek	13-17-18	C	Exceeding Criteria
Price Mill Creek	11-138-2-2	C	Exceeding Criteria
West Fork Twelve Mille Creek	11-138-1	C	Exceeding Criteria

3.4 MS4 Interconnection

The Town of Indian Trail MS4 is interconnected with another regulated MS4 and directly receives stormwater from the Charlotte, Stallings, and Mecklenburg County MS4s. The number of interconnections entering the Town of Indian Trail MS4 is shown in the map below and was determined by data downloaded on the NCDEQ Online GIS website. If other interconnections are determined during the course of the permit term, the map below will be updated.

The Town of Indian Trail MS4 is interconnected with another regulated MS4 and directly discharges stormwater into the Stallings and Monroe MS4s. Waterbodies also discharge into the unincorporated areas of Union County (not currently regulated by an MS4 permit). The number of interconnections leaving the Town of Indian Trail MS4 is

shown in the map below and was determined by data downloaded on the NCDEQ Online GIS website. If other interconnections are determined during the course of the permit term, the map below will be updated.



3.5 Total Maximum Daily Loads (TMDLs)

The TMDL(s) listed in Table 3 below have been approved within the MS4 area, as determined by the map and list provided on the [NCDEQ Modeling & Assessment Unit web page](#). The table also indicates whether the approved

TMDL has a specific stormwater Waste Load Allocation (WLA) for any watershed directly receiving discharges from the permitted MS4, and whether a Water Quality Recovery Program has been implemented to address the WLA.

Table 3: Summary of Approved TMDLs

Water Body Name	TMDL Pollutant(s) of Concern	Stormwater Waste Load Allocation (Y/N)	Water Quality Recovery Program (Y/N)
Goose Creek (Mint Hill)	Fecal Coliform	Yes	No

The Town's Goose Creek watershed encompasses a little over 6.5% of the entire corporate limits of the Town of Indian Trail. There is only one subdivision that was developed that has been constructed in this watershed since the Town was established. All other lands are occupied by single-family residences with limited access to county water and sewer. So potential development in the future would be hard economically to produce.

Based on historical land use described above and the size of the watershed; the Town's approach on this is to perform the following minimum measure on an annual basis:

- 1) Public Education/Outreach – the Town will distribute educational material about watersheds, TMDLs, and septic field maintenance to all residents and to the handful of facilities (fire station, Goose Creek Airport, etc.)

We will also coordinate with Union County (permitting authority for sewer) to see if there are any database for existing residential septic facilities, so we can have a better understanding where possible illicit discharges may be contributing to the TMDLs designation of Goose Creek.

The Town's contracted consulting firm is finishing up a Watershed Management Plan for all watersheds located in the Town limits including Goose Creek. Water quality strategies will be created and implemented once plan is completed. The plan was supposed to be completed in June 2022, but due to lack of existing elevation data and some minor issue in the hydraulic model this plan will not be fully completed until December 2023.

Due to waiting on the water quality report, the Town did not perform any proactive strategies for Goose Creek this year.

3.6 Endangered and Threatened Species and Critical Habitat

Significant populations of threatened or endangered species and/or critical habitat are not identified within the regulated MS4 urbanized area. Based upon a review of the [Endangered and Threatened Species and Species of Concern by County for North Carolina Map](#) and [Listed species believe to or known to occur in North Carolina map](#) as provided by the [U.S. Fish and Wildlife Service](#), the species listed in Table 4 have the potential to occur within the regulated MS4 urbanized area. Of those species listed, Table 4 summarizes the species that may be significantly impacted by the quality of surface waters within their habitat.

Table 4: Potential Federally Listed Species/Habitat Impacted by Surface Water Quality

Scientific Name	Common name	Species Group	Federal Listing Status
Fusconaia masoni	Atlantic pigtoe	Clams	ARS
Lasmigona decorate	Carolina heelsplitter	Clams	E
Symphyotrichum georgianum	Georgia aster	Flowering Plant	C
Rhus michauxii	Michaux's sumac	Flowering Plant	E
Helianthus schweinitzii	Schweinitz's sunflower	Flowering Plant	E
Danaus plexippus	Monarch butterfly	Insect	C
Carex impressinervia	Ravine sedge	Flowering Plant	Under review
Toxolasma pullus	Savannah lilliput	Clams	Undefined
Dactylocythere peedeensis	Pee Dee crayfish	Crustaceans	C
Perimyotis subflavus	Tricolor bat	Mammal	Under review

3.7 Industrial Facility Discharges

The Town of Indian Trail MS4 jurisdictional area includes the following industrial facilities which hold NPDES Industrial Stormwater Permits, as determined from the [NCDEQ Maps & Permit Data web page](#).

Table 5: NPDES Stormwater Permitted Industrial Facilities (was not able to find the highlighted ones)

Permit Number	Facility Name
Harris Teeter LLC	NCG060372
Crooked Creek WWTP #2	NCG110070
Berry Global Inc	NCG050349
Keywell Metals LLC	NCG200463
Ready Mixed Concrete Co.	NCG140187
Blumenthal Brandes Integrated	NCGNE1460

3.8 Non-Stormwater Discharges

The Town has evaluated the water quality impacts of non-stormwater discharges, as summarized in Table 6 below. The unpermitted non-stormwater flows listed as incidental do not significantly impact water quality. A previous version of the SWMP indicated that residential and charity car washing and street wash water had a "possible" water quality impact. In the Spring of 2022, the Town performed a detailed assessment by conducting field investigations and sampling discharges from outfalls that receive runoff from watersheds, including commercial carwashes and residential areas, to determine if car and street washing activities negatively impact receiving water bodies. The

assessment showed that residential and charity car washing and street wash water have only an incidental impact on receiving water bodies. Table 6 was revised to reflect the results of the assessment.

Table 6: Non-Stormwater Discharges

Non-Stormwater Discharge	Water Quality Impacts
Litter	Incidental
Water line and fire hydrant flushing	Incidental
Landscape irrigation	Incidental
Diverted stream flows	Incidental
Rising groundwater	Incidental
Uncontaminated groundwater infiltration	Incidental
Uncontaminated pumped groundwater	Incidental
Uncontaminated potable water sources	Incidental
Foundation drains	Incidental
Air conditioning condensate	Incidental
Irrigation waters	Incidental
Springs	Incidental
Water from crawl space pumps	Incidental
Footing drains	Incidental
Lawn watering	Incidental
Residential and charity car washing	Incidental
Flows from riparian habitats and wetlands	Incidental
Dechlorinated swimming pool discharges	Incidental
Street wash water	Incidental
Flows from firefighting activities	Incidental

3.9 Target Pollutants and Sources

In addition to those target pollutants identified above, the Town of Indian Trail is not aware of other significant water quality issues within the permitted MS4 area.

Table 7 below summarizes the water quality pollutants identified throughout Part 3 of this SWMP, the likely activities/sources/targeted audiences attributed to each pollutant and identifies the associated SWMP program(s) that address each. In addition, the Town of Indian Trail has evaluated schools, homeowners and businesses as target audiences that are likely to have significant stormwater impacts.

Table 7: Summary of Target Pollutants and Sources

Target Pollutant(s)	Likely Source(s)/Target Audience(s)	SWMP Program Addressing Target Pollutant(s)/Audience(s)
Litter	Residents, Businesses, Schools	Public Education & Outreach
Swimming pools	Residents, HOAs, Developers	Public Education & Outreach

PART 4: STORMWATER MANAGEMENT PROGRAM ADMINISTRATION

4.1 Organizational Structure

Responsible Party – The Mayor of the Town is considered the Owner.

Signing Official – The Town Manager is the signing official of Indian Trail.

Duly Authorized Representative – The Director of Engineering is the Storm Water Administrator and duly authorized representative for the SWMP implementation as described in Section 1360.110A & 1360.110B of the Unified Development Ordinance.

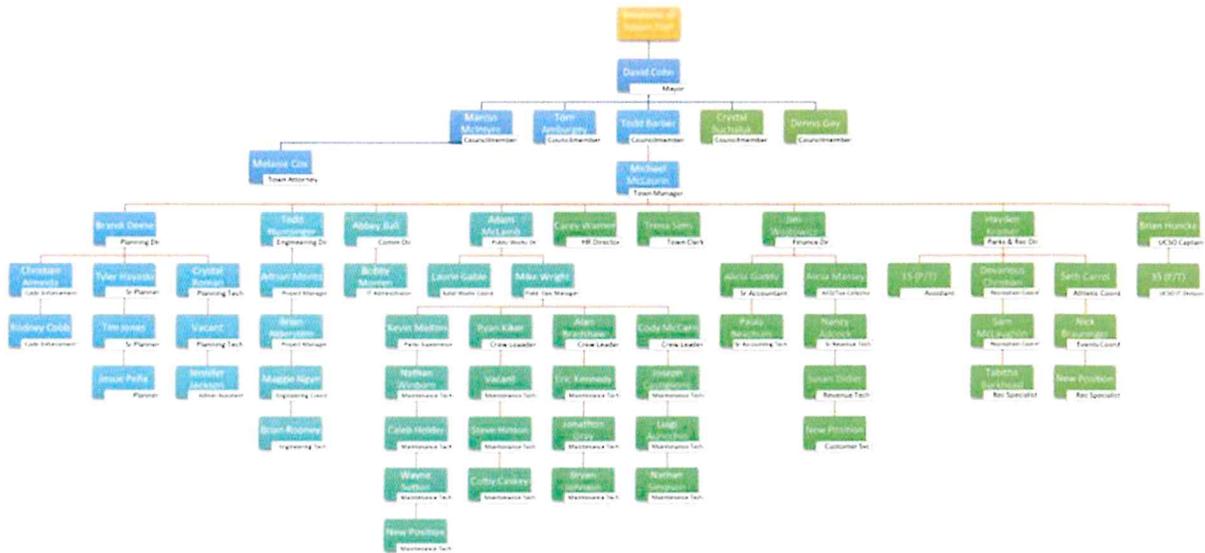


Table 8: Summary of Responsible Parties

SWMP Component	Responsible Position	Staff Name	Department
Stormwater Program Administration	Engineering Project Manager	Brian Adlerstein	Engineering
SWMP Management	Engineering Project Manager	Brian Adlerstein	Engineering
Public Education & Outreach	Engineering Project Manager	Brian Adlerstein	Engineering
Public Involvement & Participation	Engineering Project Manager	Brian Adlerstein	Engineering
Illicit Discharge Detection & Elimination	Engineering Project Manager	Brian Adlerstein	Engineering
Construction Site Runoff Control	Engineering Project Manager	Brian Adlerstein	Engineering
Post-Construction Stormwater Management	Engineering Project Manager	Brian Adlerstein	Engineering
Pollution Prevention/Good Housekeeping for Municipal Operations	Public Works Director	Adam McLamb	Public Works
Municipal Facilities Operation & Maintenance Program	Public Works Director	Adam McLamb	Public Works
Spill Response Program	Public Works Director	Adam McLamb	Public Works
MS4 Operation & Maintenance Program	Public Works Director	Adam McLamb	Public Works
Municipal SCM Operation & Maintenance Program	Public Works Director	Adam McLamb	Public Works
Pesticide, Herbicide & Fertilizer Management Program	Public Works Director	Adam McLamb	Public Works
Vehicle & Equipment Cleaning Program	Public Works Director	Adam McLamb	Public Works
Pavement Management Program	Public Works Director Director of Engineering	Adam McLamb Todd Huntsinger	Engineering
Total Maximum Daily Load (TMDL) Requirements	Director of Engineering	Todd Huntsinger	Engineering

4.2 Program Funding and Budget

In accordance with the issued permit, the Town of Indian Trail shall maintain adequate funding and staffing to implement and manage the provisions of the SWMP and comply with the requirements of the NPDES MS4 Permit. The budget includes the permit administering and compliance fee, which is billed by the Division annually.

The Town collects a utility fee from the residents and businesses based on the amount of impervious area on a property. Current fee structure breakdown is:

Residential Rate:

Tier 1: < 2,060 square feet = \$53.10 annually

Tier 2: > 2,060 square feet = \$63.60 annually

Non-residential Rate:

2,060 square feet = 1 ERU = \$40.56 annually

The Town annual stormwater budget is around \$1.5 mil and is sufficient enough to implement our SWMP and comply with the MS4 permit requirements.

4.3 Shared Responsibility

The Town of Indian Trail will share the responsibility to implement the following minimum control measures, which are at least as stringent as the corresponding NPDES MS4 Permit requirement. The Town of Indian Trail remains responsible for compliance if the other entity fails to perform the permit obligation and may be subject to enforcement action if neither the Town of Indian Trail nor the other entity fully performs the permit obligation. Table 9 below summarizes who will be implementing the component, what the component program is called, the specific SWMP BMP or permit requirement that is being met by the shared responsibility, and whether or not a legal agreement to share responsibility is in place.

The Town of Indian Trail does not have a shared program with other parties.

Table 9: Shared Responsibilities

SWMP BMP or Permit Requirement	Implementing Entity & Program Name	Legal Agreement (Y/N)
N/A		

4.4 Co-Permittees

There are no other entities applying for co-permittee status under the NPDES MS4 permit number NCS000453 for the Town of Indian Trail. Table 10 summarizes contact information for each co-permittee.

Table 10: Co-Permittee Contact Information

Co-Permittee MS4 Name	Contact Person	Phone & E-Mail	Interlocal Agreement (Y/N)
N/A			

4.5 Measurable Goals for Program Administration

The Town of Indian Trail will manage and report the following Best Management Practices (BMPs) for the administration of the Stormwater Management Program.

Table 11: Program Administration BMPs				
Permit Ref.	2.1.1, 2.1.2, 2.2.2 and Part 4: Annual Self-Assessment Measures to evaluate the performance and effectiveness of the SWMP program components at least annually. Results shall be used by the permittee to modify the program components as necessary to accomplish the intent of the Stormwater Program.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.1	Annual Self-Assessment			
	Evaluate the performance and effectiveness of the program components at least annually. Results shall be used to modify the program components as necessary to accomplish the intent of the Stormwater Program.	1. Prepare, conduct and document an annual evaluation of the program components.	1. Permit Years 1 – 5	1. Yes/No
#2	The permittee shall maintain adequate funding and staffing to implement and manage the provisions of the SWMP and meet all requirements of this permit.	2. Documentation will present adequate funding and staff.	2. Permit Year 1	2. Adequate/Inadequate

Table 11: Program Administration BMPs

#3	The Permittee shall maintain, and make available to the Division upon request, written procedures for implementing the six minimum control measures. Written procedures shall identify specific action steps, schedules, resources, and responsibilities for implementing the MCMs. Written procedures can be free standing or, where appropriate, integrated into the Stormwater Management Plan.	3. Create all required written procedures.	3. Permit Year 1	3. Yes/No
		4. Review all written procedures.	4. Permit Year 2-5	4. Yes/No
Permit Ref.	1.6: Permit Renewal Application Measures to submit a permit renewal application no later than 180 days prior to the expiration date of the NPDES MS4 permit.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.4	Permit Renewal Application			
	Submit a permit renewal application and Draft SWMP no later than 180 prior to permit expiration.	1. Draft SWMP applicable to the proceeding 5 years following permit re-issuance.	1. Permit Year 5	1. Yes/No
2. Certify the stormwater permit renewal application (Permit renewal application form and Draft SWMP for the next 5-year permit cycle) and submit to NCDEQ at least 180 days prior to permit expiration.		2. Permit Year 5	2. Date of permit renewal application submittal	

PART 5: PUBLIC EDUCATION AND OUTREACH PROGRAM

The Town of Indian Trail will implement a Public Education and Outreach Program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and steps the public can take to reduce pollutants in storm water runoff.

The target audiences and identified pollutants listed in Part 3.9 of this SWMP, which will be addressed by the Public Education and Outreach Program, are summarized in Table 12 below. In addition, the Town of Indian Trail is required to inform businesses and the general public of the hazards associated with illicit discharges, illegal dumping and improper disposal of waste.

Table 12: Summary of Target Pollutants & Audiences

Target Pollutants/Sources	Target Audience(s)
Illicit Discharges	General Public, Businesses, Municipal Employees
Illegal Dumping	General Public, Businesses, Municipal Employees
Improper Disposal of Waste	General Public, Businesses, Municipal Employees

The Town of Indian Trail will manage, implement and report the following public education and outreach BMPs.

Table 13: Public Education and Outreach BMPs				
Permit Ref.	3.2.2 and 3.2.4: Outreach to Targeted Audiences			
	Measures to identify the specific elements and implementation of a Public Education and Outreach Program to share educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and how the public can reduce pollutants in stormwater runoff. The permittee shall provide educational information to identified target audiences on pollutants/sources identified in table 12 above and shall document the extent of exposure of each media, event or activity, including those elements implemented locally or through a cooperative agreement.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.5	Newsletters and Social Media			
	Continue to submit stormwater educational articles to Town citizens thru our Town Newsletter and social media sites.	1. Distribute educational material on a quarterly basis (at minimum).	1. Permit Year 1-5	1. # of material distributed and # of social media posts
#.6	Educational Material			
	Distribute written educational material to broad public audience. Example: town events, newsletters, and special events	1. Continue to distribute fliers and pamphlets at minimum of one town event annually.	1. Permit 1-5	1. Contact hours and estimation of material handed out.

Table 13: Public Education and Outreach BMPs

<p>#.7</p>	<p>Classroom Stormwater Presentations</p>			
	<p>Perform presentations by using Town's EnviroScape and floodplain simulator for elementary and middle schools.</p>	<p>1. Perform stormwater education presentations (at minimum of two schools annually).</p>	<p>1. Permit 1-5</p>	<p>1. Date of presentation</p>
<p>Permit Ref.</p>	<p>2.1.7, 3.2.3 and 3.6.5(c): Web Site Measures to provide a web site designed to convey the program's message(s) and provide online materials including ordinances, or other regulatory mechanisms, or a list identifying the ordinances or other regulatory mechanisms, providing the legal authority necessary to implement and enforce the requirements of the permit and SWMP. The web page shall also provide developers with all relevant post-construction requirements, design standards, checklists and/or other materials.</p>			
<p>BMP No.</p>	<p>A</p>	<p>B</p>	<p>C</p>	<p>D</p>
	<p>Description of BMP</p>	<p>Measurable Goal(s)</p>	<p>Schedule for Implementation</p>	<p>Annual Reporting Metric</p>
<p>#.8</p>	<p>Website</p>			
	<p>Town maintains a website with a section exclusive to stormwater program.</p>	<p>1. Continue to maintain a website that conveys the program's message.</p>	<p>1. Year 1 – 5</p>	<p>1. Yes/No</p>
<p>Permit Ref.</p>	<p>3.2.5: Stormwater Hotline Measures for a stormwater hotline/helpline for the purpose of public education and outreach.</p>			
<p>BMP No.</p>	<p>A</p>	<p>B</p>	<p>C</p>	<p>D</p>
	<p>Description of BMP</p>	<p>Measurable Goal(s)</p>	<p>Schedule for Implementation</p>	<p>Annual Reporting Metric</p>
<p>#.9</p>	<p>Hotline</p>			
	<p>Town has a stormwater hotline in place for a number of years now and will continue to do so to give the citizens a communication tool to report issues regarding flooding, drainage, illicit discharges, etc.</p>	<p>1. Continue to promote hotline on social media and confirm hotline is operable.</p>	<p>1. Annually</p>	<p>1. Yes/No</p>
		<p>2. Create and maintain spreadsheet (log calls)</p>	<p>2. Continuous</p>	<p>2. Yes/No</p>

PART 6: PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM

This SWMP identifies the minimum elements and implementation of a Public Involvement and Participation Program that complies with applicable State, Tribal and local public notice requirements. The Town of Indian Trail will manage, implement and report the following public involvement and participation BMPs.

Table 14: Public Involvement and Participation BMPs				
Permit Ref.	3.3.1: Public Input Mechanisms for public involvement that provide for input on stormwater issues and the stormwater program.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.10	Citizen Advisory Committee			
	Town maintains a stormwater advisory committee that meets on a quarterly basis. Committee establishment is included in Town ordinance.	1. Continue to maintain a citizen's advisory panel	1. Quarterly	1. Yes/No
Permit Ref.	3.3.2: Volunteer Opportunities Measures to provide volunteer opportunities designed to promote ongoing citizen participation.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.11	Trash Pick-Up Day			
	Provide the public the opportunity to join staff walking public right of ways and pick of litter.	1. Continue to maintain public involvement SOP	1. Permit Year 1	1. Yes/No
	Create a SOP that provides guidance on scheduling and how to keep up with data collection.	2. Publish and conduct an annual trash pick-up day	2. Permit Year 2-5	2. Number of participants and pounds of substance pick-up
#.12	Adopt-A-Stream Program			
	Program is advertised on Town website for opportunities for volunteers to participate in an Adopt-A-Stream program.	1. Continue to promote on website and Town's newsletter	1. Permit Year 1-5	1. Yes/No
		2. Keep record of stream adoptions	2. Continuous	2. # of adopted streams
#.13	Storm Drain Marking Program			
	Program is advertised on Town website for opportunities for volunteers to participate in a Storm Drain Marking program.	1. Continue to promote on website and Town's newsletter	1. Permit Year 1-5	1. Yes/No
		2. Keep record of marking events	2. Permit Year 2-5	2. # of marking events

PART 7: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

The Town of Indian Trail will develop, manage, implement, document, report and enforce an Illicit Discharge Detection and Elimination Program which shall, at a minimum, include the following illicit discharge detection and elimination BMPs.

Table 15: Illicit Discharge Detection and Elimination BMPs				
Permit Ref.	3.4.1: MS4 Map Measures to develop, update and maintain a municipal storm sewer system map including stormwater conveyances, flow direction, major outfalls and waters of the United States receiving stormwater discharges.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.14	Primary Storm Water Maps			
	Continue to update and maintain Town Stormwater Map.	1. Update Storm Map as needed	1. Continuous	1. Yes/No
#.15	Closed-Storm Inventory Map			
	SOP will be created to provide step by step process on in-house inventory process. Closed-storm database is updated after each development or Town project is completed. This is performed in-house.	1. Continued to update inventory database	1. Permit Year 1-5	1. Yes/No
		2. Create SOP	2. Permit Year 1	2. Yes/No
#.16	Outfall Inventory Map			
	Outfall inventory will be updated on a 2-3 year basis by third-party consulting firm if funding allows.	1. RFQ for next inventory	1. Permit Year 1	1. Yes/No
		2. Updated Map	2. Permit Year 1	2. Number of outfalls
		3. Reevaluate the need to update map in future years	3. Permit Year 3 - 5	3. Yes/No
Permit Ref.	3.4.2: Regulatory Mechanism Measures to provide an IDDE ordinance or other regulatory mechanism that provides legal authority to prohibit, detect, and eliminate illicit connections and discharges, illegal dumping and spills into the MS4, including enforcement procedures and actions.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.17	Illicit Discharge Ordinance			
	Town has an established ordinance for this BMP.	1. Reevaluate ordinance in future years	1. Permit Year 3-5	1. Yes/No

Table 15: Illicit Discharge Detection and Elimination BMPs

	Ordinance will be reviewed annually in order to ensure its continues to stay in compliance with applicable state and federal laws.	2. Update IDDE ordinance as needed	2. Permit Year 3-5	2. Yes/No
Permit Ref.	<p>3.4.3: IDDE Plan Measures to maintain and implement a written IDDE Plan to detect and address illicit discharges, illegal dumping and any non-stormwater discharges identified as significant contributors of pollutants to the MS4. The plan shall provide standard procedures and documentation to:</p> <ul style="list-style-type: none"> a) Locate priority areas likely to have illicit discharges, b) Conduct routine dry weather outfall inspections, c) Identify illicit discharges and trace sources, d) Eliminate the source(s) of an illicit discharge, and e) Evaluate and assess the IDDE Program. 			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.18	IDDE Guidance Manual			
	To draft and implement a SOP to provide guidance to Town staff.	1. Review and Evaluate IDDE Plan and update as needed.	1. Annually	1. Yes/No
	Maintaining the written plan and update if needed.	2. Implement IDDE Plan	2. Continuous	2. Yes/No
Permit Ref.	<p>3.4.4: IDDE Tracking Measures for tracking and documenting the date(s) an illicit discharge, illicit connection or illegal dumping was observed, the results of the investigation, any follow-up of the investigation, the date the investigation was closed, the issuance of enforcement actions, and the ability to identify chronic violators.</p>			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.19	Illicit Investigations			
	Create SOP to provide guidance to staff on step-by-step process in performing investigations.	1. Create SOP	1. Permit Year 1	1. Yes/No
		2. Implement SOP	2. Permit Year 1	2. Yes/No
		3. Document illicit discharge investigation including all information outlined in 3.4.4	3. Permit Year 1-5	3. No. of illicit discharges investigated.

Table 15: Illicit Discharge Detection and Elimination BMPs

Permit Ref.	3.4.5: Staff IDDE Training Measures to provide training for municipal staff and contractors who, as part of their normal job responsibilities, may observe an illicit discharge, illicit connection, illegal dumping or spills. Training shall include how to identify and report illicit discharges, illicit connections, illegal dumping and spills. Each staff training event shall be documented, including the agenda/materials, date, and number of staff participating.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.20	Annual Staff Training			
	Schedule one annual training seminar for all town employees.	1. Provide one training opportunity for each town employee	1. Annually	1. Date/No. of participants
#.21	IDDE Training for Developers/Contractors			
	Provide basic overview of IDDE procedures in written and verbal communication at preconstruction meetings and website.	1. Provide IDDE material to developers/contractors when meetings occur.	1. Annually	1. No. of preconstruction meetings held.
Permit Ref.	3.4.6: IDDE Reporting Measures for the public and staff to report illicit discharges, illegal dumping and spills. The mechanism shall be publicized to facilitate reporting and shall be managed to provide rapid response by appropriately trained personnel.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.22	IDDE Reporting			
	Create selection item in the Town's reporting request system (Brightly)	1. Implement on request system, advertise on website	1. Continuous	1. No. of reports

PART 8: CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

In accordance with 15A NCAC 02H .0153, the Town of Indian Trail relies upon the North Carolina Sedimentation Pollution Control Act (SPCA) of 1973 as a qualifying alternative program to meet a portion of the NPDES MS4 Permit requirements for construction site runoff control measures. The SPCA requirements include reducing pollutants in stormwater runoff from construction activities that result in land disturbance of greater than or equal to one acre, and includes any construction activity that is part of a larger common plan of development that would disturb one acre or more. The state SPCA Program is either delegated to a city/town, delegated to a county, or implemented by NCDEQ in non-delegated areas.

Table 16: Qualifying Alternative Program Components for Construction Site Runoff Control Program

Permit Reference	State or Local Program Name	Legal Authority	Implementing Entity
3.5.1 - 3.5.5	State Implemented SPCA Program	15A NCAC Chapter 04	NCDEQ

* The local delegated SPCA Program ordinance(s)/regulatory mechanism(s) can be found at: [NC DEQ: Erosion and Sediment Control Laws and Rules](#).

The Town of Indian Trail also implements the following BMPs to meet NPDES MS4 Permit requirements.

Table 17: Construction Site Runoff Control BMPs				
Permit Ref.	3.5.6: Public Input Measures to provide and promote a means for the public to notify the appropriate authorities of observed erosion and sedimentation problems.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.23	Municipal Staff Training			
	Train municipal staff who receive calls from the public on the protocols for referral and tracking of construction site runoff control complaints.	1. Train municipal staff on proper handling of construction site runoff control complaints.	1. Annually	1. No. of staff trained
#.24	Public Reporting for E&S issues			
	Create selection item in the Town's reporting request system (Brightly).	1. Implement on request system, advertise on website	1. Continuous	1. Yes/No
Permit Ref.	3.5.5: Waste Management Measures to require construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impact to water quality.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.25	Stormwater Utility Ordinance			
	Ordinance prohibits waste disposal by all persons in the town limits.	1. Continue to promote ordinance on website	1. Permit 1-5	1. Yes/No
	Document number of preconstruction meetings and attendees.	2. Include topic of waste disposal on preconstruction meeting agenda to educate contractors	2. Permit 1-5	2. Yes/No

PART 9: POST-CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

This SWMP identifies the minimum elements 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 of development or sale, that are located within the Town of Indian Trail and discharge into the MS4. These elements are designed to minimize water quality impacts utilizing a combination of structural Stormwater Control Measures (SCMs) and/or non-structural BMPs appropriate for the community and ensure adequate long-term operation and maintenance of SCMs.

In accordance with 15A NCAC 02H .0153 and .1017, the Town of Indian Trail implements the following State post-construction program requirements, which satisfy the NPDES Phase II MS4 post-construction site runoff control requirements as Qualifying Alternative Programs (QAPs) in the MS4 area(s) where they are implemented.

Table 18: Qualifying Alternative Program(s) for Post-Construction Site Runoff Control Program

State QAP Name	State Requirements	Local Ordinance / Regulatory Mechanism Reference
None	N/A	N/A

The Town of Indian Trail has existing requirements other than Qualifying Alternative Program(s) for implementation of the NPDES Phase II MS4 post-construction program requirements. These existing requirements are codified in local ordinance(s), and implementation is further defined in guidance, manuals and/or standard operating procedure(s) as summarized in Table 19 below.

Table 19: Summary of Existing Post-Construction Program Elements

Permit Requirements for Plan Review and Approval	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.2(a) Authority	UDO and Post-Construction Admin. Manual	2021 and 2010
3.6.3(a) & 15A NCAC 02H.0153(c) Federal, State & Local Projects	UDO and Post-Construction Admin. Manual	2021 and 2010
3.6.3(b) Plan Review	UDO and Post-Construction Admin. Manual	2021 and 2010
3.6.3(c) O&M Agreement	UDO and Post-Construction Admin. Manual	2021 and 2010
3.6.3(d) O&M Plan	UDO and Post-Construction Admin. Manual	2021 and 2010
3.6.3(e) Deed Restrictions/Covenants	UDO and Post-Construction Admin. Manual	2021 and 2010
3.6.3(f) Access Easements	UDO and Post-Construction Admin. Manual	2021 and 2010
Permit Requirements for Inspections and Enforcement	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.2(b) Documentation	UDO and Post-Construction Admin. Manual	2021 and 2010
3.6.2(c) Right of Entry	UDO and Post-Construction Admin. Manual	2021 and 2010
3.6.4(a) Pre-CO Inspections	UDO and Post-Construction Admin. Manual	2021 and 2010
3.6.4(b) Compliance with Plans	UDO and Post-Construction Admin. Manual	2021 and 2010
3.6.4(c) Annual SCM Inspections	UDO and Post-Construction Admin. Manual	2021 and 2010
3.6.4(d) Low Density Inspections	UDO and Post-Construction Admin. Manual	2021 and 2010
3.6.4(e) Qualified Professional	UDO and Post-Construction Admin. Manual	2021 and 2010
Permit Requirements for Fecal Coliform Reduction	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.6(a)	Town of Indian Trail Animal Control Ordinance	2013
3.6.6(b) On-Site Domestic Wastewater Treatment	Union County Public Works (n/a)	

The annual reporting metrics for the post construction program are provided in Table 20: Post Construction Site Runoff Control BMPs below.

Table 20: Post Construction Site Runoff Control BMPs				
Permit Ref.	3.6.5(a), 3.6.5(b), and 4.1.3: Minimum Post-Construction Reporting Requirements			
	Measures to document activities over the course of the fiscal year (July 1 – June 30) including appropriate information to accurately describe progress, status, and results.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.26	Standard Reporting			
	Implement standardized tracking, documentation, inspections and reporting mechanisms to compile appropriate data for the annual self-assessment process. Data shall be provided for each Post-Construction/ Qualifying Alternative Program being implemented as listed in Tables 18 and 19.	1. Track number of low density and high-density plan reviews performed.	1. Continuously Permit Years 1-5	1. No. of Low- and High-Density plan reviewed
		2. Track number of low density and high-density plans approved.	2. Continuously Permit Years 1-5	2. No. of Low- and High-Density Approved Plans

Table 20: Post Construction Site Runoff Control BMPs

	All data stated in column "D" for this table is stored in our plan review software (Evolve).	3. Maintain a current inventory of low-density projects and constructed SCMs including SCM type or low-density acreage, location and last inspection date.	3. Continuously Permit Years 1-5	3. No. of Low-Density projects constructed this year with included acreage and site location. No. of SCMs constructed including SCM type.
		4. Track number of SCM inspections performed.	4. Continuously Permit Years 1-5	4. No. of SCM inspections performed.
		5. Track number of low-density inspections performed.	5. Continuously Permit Years 1-5	5. No. of Low-Density developments inspected.
		6. Track number and type of enforcement actions taken.	6. Continuously Permit Years 1-5	6. No. of Enforcement Actions performed.
Permit Ref.	3.6.6: Fecal Coliform Reduction Measures to control, to the maximum extent practicable, sources of fecal coliform per 15A NCAC 02H .1017(7). At a minimum, the program shall include: (a) A pet waste management component, which may be achieved by revising an existing litter ordinance, and (b) An on-site domestic wastewater treatment system component, if applicable, which may be coordinated with local county health department, to ensure proper operation and maintenance of such systems.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.27	Ordinances			
	The Town adopted Union County's Animal Control Ordinance for enforcement of pet waste. The Town will look into expanding on this existing ordinance for pet waste management.	1. Revisit existing ordinance	1. Permit Year 2	1. Yes/No
		2. Reevaluate ordinance in the future as Town grows	2. Permit Year 3-5	2. Yes/No

PART 10: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS

This SWMP provides a comprehensive pollution prevention and good housekeeping strategy for the Town of Indian Trail municipal facilities and operations. Pollution prevention and good housekeeping is accomplished through the implementation of seven required programs, which collectively address the ultimate goal of preventing or reducing pollutant runoff from municipal operations such as parks and open space maintenance, fleet and building maintenance, new construction and land disturbances, and municipal storm sewer system maintenance.

Pollution prevention and good housekeeping for municipal operations includes the following programs:

1. Municipal Facilities Operation and Maintenance Program
2. Spill Response Program
3. MS4 Operation and Maintenance Program
4. Municipal SCM Operation and Maintenance Program
5. Pesticide, Herbicide and Fertilizer Management Program
6. Vehicle and Equipment Maintenance Program
7. Pavement Management Program

The Town of Indian Trail will manage, implement and report the pollution prevention and good housekeeping BMPs as specified in Table 21 below for each required program.

Table 21: Pollution Prevention and Good Housekeeping BMPs				
Permit Ref.	3.7.1: Municipal Facilities Operation and Maintenance Program			
	Measures to manage facilities that are owned and operated by the permittee and have the potential for generating polluted stormwater runoff. The permittee shall maintain a current inventory of municipal facilities; perform facility inspections and routine maintenance; establish specific frequencies, schedules, and standard documentation; provide staff training on general stormwater awareness and implementing pollution prevention and good housekeeping practices.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.28	Facility Inventory			
	Create a database to reflect inventory of municipal equipment and facilities.	1. Create database and site location map	1. Permit Year 1	1. No. of municipal facilities identified.
	Town will ensure that inspections are performed by certified employees.	2. Update database as needed	2. Permit Year 2-5	2. Yes/No
#.29	O&M Plan			
	To implement a O&M Plan that provides frequency of inspections and routine maintenance requirements	1. Draft plan and implement	1. Continuous	1. Yes/No.
		2. Create SOP (step by step basis) for frequency schedule monitoring and inspecting	2. Permit Year 1	2. No. of inspections of the facilities.
		3. Train staff and keep records of training	3. Permit Year 2-5	3. No. of participants
		4. Evaluate and update program annually as needed	4. Permit 2-5	4. Yes/No

Table 21: Pollution Prevention and Good Housekeeping BMPs

Permit Ref.	3.7.2: Spill Response Program			
	Measures for facilities and operations that store and/or use materials that have the potential to contaminate stormwater runoff if spilled. The permittee shall maintain written spill response procedures and train staff on spill response procedures.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.30	Spill Response Plan			
	To implement a Spill Response Plan document that reflects an annual comprehensive response plan with record keeping components. Train staff to handle spills at facilities grounds and vehicular kits.	1. Draft plan and implement	1. Permit Year 1	1. Yes/No
		2. Annual staff training on how to use spill kits	2. Permit Year 2-5	2. No. of participants attended.
		3. Evaluate program annually if necessary	3. Permit 2-5	3. Yes/No
Permit Ref.	3.7.3: MS4 Operation and Maintenance Program			
	Measures to minimize pollutants in the stormwater collection system. The permittee shall provide operation and maintenance staff training on stormwater awareness and pollution prevention, perform MS4 inspections, maintain the collection system including catch basins and conveyances; and establish specific frequencies, schedules, and standard documentation.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.31	MS4 Operation and Maintenance Program			
	Implement a SOP that defines a direction on how to annually manage the program, continue staff training on inspections and monitoring, and create scheduling. Town does have proper mapping of all stormwater collection systems and has annually contracted out stormwater maintenance activities for existing closed-storm systems the past two years and will continue to do so.	1. Draft SOP and implement. SOP will define an annual inspection and monitoring plan for all Town owned SCMs	1. Permit Year 1	1. Yes/No
		2. Annual staff training for inspecting SCMs	2. Annually	2. No. of participants
		3. Evaluate program annually and make changes if necessary	3. Annually	3. Yes/No
Permit Ref.	3.7.4: Municipal SCM Operation and Maintenance Program			
	Measures to manage municipally-owned, operated, and/or maintained structural stormwater control measures (SCMs) that are installed for compliance with the permittee's post-construction program. The permittee shall maintain a current inventory of SCMs, perform SCM inspections and maintenance, and shall establish specific frequencies, schedules, and documentation.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.32	Municipal SCM Operation and Maintenance Program			
	Implement a document to reflect an annual program that will manage and monitor Town-owned SCMs which includes inventory database.	1. Draft plan and implement	1. Continuous	1. Yes/No
		2. Create inventory database including annual inspection	2. Permit Year 1	2. No. of inspections
		3. Train staff	3. Annually	3. No. of participants

Table 21: Pollution Prevention and Good Housekeeping BMPs

		4. Evaluate program annually and modify if warranted	4. Annually	4. Yes/No
Permit Ref.	3.7.5: Pesticide, Herbicide and Fertilizer Management Program Measures to minimize water quality impacts from the use of landscape chemicals. The permittee shall provide routine pollution prevention and chemical use, storage and handling training, and shall ensure compliance with permits and applicator certifications.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.33	Pesticide, Herbicide and Fertilizer Management Program			
	Create a SOP to reflect an assurance that adequate staff are properly trained in pesticide, herbicide and fertilizer application management.	1. Create SOP and implement	1. Permit Year 1	1. Yes/No
		2. Record keeping on staff training	2. Annually	2. No. of license applicators
Permit Ref.	3.7.6: Vehicle and Equipment Maintenance Program Measures to prevent and minimize contamination of stormwater runoff from areas used for municipal vehicle and equipment maintenance and/or cleaning. The permittee shall ensure that municipal industrial facilities subject to NPDES industrial permitting comply with those permit requirements, provide routine pollution prevention training to staff, perform routine inspections, and establish specific frequencies, schedules, and documentation.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.34	Vehicle and Equipment Maintenance Program			
	Create SOP plan that describes and implements measures that prevent or minimize contamination of stormwater runoff from all areas used for vehicle and equipment cleaning	1. Create SOP and Implement	1. Permit Year 1	1. Yes/No
		2. Record keeping on staff training	2. Annually	2. No. of participants
Permit Ref.	3.7.7: Pavement Management Program Measures to reduce pollutants in stormwater runoff from municipally-owned streets, roads, and parking lots within the permittee's corporate limits. The permittee shall implement measures to control litter, leaves, debris, particulate and fluid pollutants associated with vehicles, and establish specific frequencies, schedules, and documentation.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.35	Street Sweeping Program			
	Town will continue an annual street sweeping contract of Town-maintained streets and Town owned parking lot areas.	1. Town annually performs street sweeping activities on all maintained streets and pavement facilities.	1. Annually	1. No. of street miles and parking lot facilities per each.

PART 5: ATTACHMENTS

PART 6: ATTACHMENTS

PART 7: ATTACHMENTS

PART 8: ATTACHMENTS

PART 9: ATTACHMENTS

PART 10: ATTACHMENTS