

Town of Plainville
Discharge of Stormwater for Small
Municipal Separated Storm Sewer Systems
(MS4)
Permit Number GSM 000004
Annual Report
2019

April 1, 2020 Due Date

Draft Posted for Comments January 15, 2020

Minimum Control Measures

Public Education and Outreach

Educational and outreach efforts provide a greater understanding of the importance of the impacts of improper use and disposal practices. Informed and knowledgeable citizens have a greater understanding and appreciation of how their actions impact the environment. This understanding and acceptance are essential to gain the public's interest, confidence and support to modify society's habits regarding their actions and how they impact the environment. Greater acceptance of greener practices is a byproduct of awareness how individual actions impact the environment.

The Town has undertaken various initiatives to develop and distribute materials. Various departments, commissions and agencies have worked together to dispense relevant information pertaining to greener practices. Universal brochures and fact sheets have been reviewed with governing land use commissions. The results of these reviews have generated modifications to regulations and ordinances and continually generate new review standards. Additionally, the Town supports groups and or individuals to organize efforts that address specific causes which directly or indirectly impact the environment and stormwater.

The measurable results of the Public Education and Outreach of the Stormwater Management Plan are as follows:

The Planning and Zoning Commission periodically reviews their Master Plan for Development and Conservation in part to ensure the Town's long-term goals are consistent with sound environmental practices. Modifications are adopted as warranted. During the 2019 calendar year a new revised Master Plan for Development and Conservation was adopted. A revised section entitled "Conservation Strategies" encompassing guidelines and goals related to Protection of Natural Resources, Preservation of Open Spaces, and Promoting Sustainability and Resiliency were added or updated to reflect appropriate practices.

The Planning and Zoning Commission reviews all land use applications to determine consistency with the "Plainville Low Impact Development and Storm Water Management Design Manual". Certain application types trigger automatic Public Hearings offering an opportunity for the public to comment. Development plans are often modified based on staff and/or public comments regarding many issues including impacts to the environment. Comments regarding stormwater management practices are routinely identified and addressed by Town staff. Additionally, Town staff regularly reviews with the Planning Commission innovative stormwater management techniques determining whether they are applicable to be included in the commission's regulations. Revisions to the Low Impact Development Guidance Document are made to clarify and identify water quality standards as warranted. A copy of "Plainville Low Impact Development and Stormwater Management Design Manual" is posted on the Town's web site.

The Planning and Zoning Regulations are periodically reviewed to encourage "Smart Development Techniques". All changes to the regulations require a public hearing. Proposed changes may be suggested by the public. The Planning and Zoning Regulations are posted on the Town's web site.

The Town's Catch Basins are regularly stenciled reminding individuals that dumping items or fluids into the catch basins can/may create pollution and could be harmful to the environment. The Town's Roadway Division maintains the stenciled markings when the catch basins are cleaned.

The Town through the Water Pollution Control Division and the Plainville Southington Health District continue the implementation of a program to inform grease generators to the importance of properly addressing grease byproducts consistent with DEP's FOG Regulations. New and problematic establishments are required to upgrade their collection systems for grease byproducts. Permits applications include documents explaining the FOG Regulations.

Continued discussions with commercial vehicle operators on the importance of promptly addressing spilled vehicle fluids. These discussions generally involve interaction between Town inspectors and a specific operator. The fire department responds to any reported vehicle fluid spills and seeks DEEP's assistance when appropriate.

Provided instruction and advice to developers/builders regarding the importance of properly installing and maintaining erosion control devices. Most developments require periodical inspections by Town staff beginning with a preconstruction inspection. During the past calendar year there were no large-scale developments. Inspections were completed at more than ten commercial/industrial developments.

A fact sheet was developed and posted on the Town's web site providing interested individuals guidance on a variety of common pollution reduction topics. Information was provided on the following topics: Lawn Care, Disposal of Common Household Substances, Pet Waste Management, Swimming Pool Discharge and Automobile Maintenance and Cleaning. The fact sheet was updated and reposted on the Town's web page, December 2019.

Past monitoring results indicate that improper pest waste disposal is problematic especially in residential areas. Principles why the proper management of pet wastes are important were conveyed when appropriate during the public's interaction with the Animal Control Officer. Additionally, in park areas regularly frequented by pets and their owners, waste receptacles are provided with detailed instructions.

The staff of the Engineering Department is available to assist and or research topics of concern related to stormwater for the Town Council, Town Agencies and residents. To date, the general population has expressed little interest in stormwater matters.

During the 2020 calendar year, the Town of Plainville will continue to provide public education and outreach as warranted in conformance with the Stormwater Management Plan. Efforts will be made to provide services that would better inform the public. It is proposed that an increase emphasis will be placed on bolstering the availability of educational materials. Inquiries will be addressed as warranted. The Town of Plainville in the upcoming calendar year will continue to address the public's need to be inform of pertinent stormwater management matters.

Target Year	Activity	Responsible Department
Ongoing after December 2017 – Yearly Review and Action	Update Prepared Brochures and Fact Sheets – Tailored to targeted Pollutants of Concern (BMP ID # 1-1A)	Technical Services – Ongoing Yearly review was completed – Goal – to bolster availability of brochures and fact sheets – New Guidance Document created and posted on Town's Web Site -2018 -Updated December 2019
Ongoing after December 2017 Yearly Review and Action	Create Brochures and Fact Sheets specific to Plainville if necessary (BMP ID # 1-1B)	Technical Services
Ongoing after December 2017 Review and Action	Stormwater Facilities and Install Tributary Signage (BMP ID #1-1C)	Technical Services – Ongoing – Action taken during the 2019 calendar Year was the continued stenciling of catch basins which will continue in 2020
Ongoing after December 2017 Yearly Review and Action	Compile and Distribute listing of Web Sites (BMP ID #1-1D)	Technical Services – New guidance document maintained and updated – Mercury December 2019 Goal for 2020 to update and bolster listings if warranted

Ongoing after December 2017 Yearly Review and Action	Coordinate and Publicizing pertinent activities (BMP ID # 1-1E) – Emphasis: 2019 Emphasis Pet Waste and Goal: 2020 Winter Salt	Technical Services – Ongoing – Goal for 2020 to increase interest in Stormwater matters – Importance of handling pet wastes and winter salt appropriately
Ongoing after December 2017 Yearly Review and Action	Prepare and distribute brochures and or fact sheets for target groups (BMP ID #1-1F)	Technical Services – No Action taken in 2019
Ongoing after December 2017 Yearly Review and Action	Reconcile/Revise Town Ordinances and or regulations to be consistent with stormwater plan (BMP ID #1-1G)	Technical Services - Town Ordinances/Regulations yearly– first completed December 2017 – Adoption Illicit Discharge Ordinance 2019
Ongoing after December 2017 Yearly Review and Action	Enforce the appropriate ordinances and regulations ensuring compliance with the Stormwater Plan (BMP ID #1-1H)	Technical Services Various Enforcement Agents – Action taken as warranted
Ongoing after December 2017 Yearly Review and Action	Distribute of Educational Materials (BMP ID #1-2A)	Technical Services – 2019 Revised guidance document – December 2019 2020 modify guidance document as warranted
Ongoing after December 2019 Yearly Review – Task Completed 2019 (see BMP ID#1-1E)	Address educational outreach for pollutants of concern (BMP ID #1-2B) Bacteria	Technical Services –2019 Emphasis on Pet Waste – Revised Fact Sheet 2020 Emphasis on Winter Salt
December 2020	Address Educational outreach for pollutants Winter Salt – (BMP ID #1-2B)	Technical Services – Goal for 2020 Develop BMP for Winter Salt Applications – Public and Private

Minimum Control Measure

Public Involvement and Participation

Public involvement and participation are essential in the development and implementation of the stormwater management plan. As the community becomes more actively engaged, the program should evolve into the community's policies and practices rather than mandates forced upon the community by others. Greater acceptance of greener practices is a byproduct of awareness how an individual's action impacts the surrounding world.

The measurable results of the Public Involvement and Participation elements of the Stormwater Management Plan are as follows:

During the 2019 calendar year, the Town continued the practices and policies governing public involvement and participation elements of the Stormwater Management Plan as describe below. The Town has undertaken various initiatives to develop and continues the distribution of educational opportunities. Various departments, commissions and agencies have worked together to dispense relevant information pertaining to greener practices.

As an example: During the 2019 calendar year, the Planning and Zoning Commission conducted Public Hearings to consider revisions to their regulations. The adoption procedures involve public information sessions including opportunities for the public to present and voice facts and opinions. Special attention was given to include organizations and individuals who had a desire to contribute to the development and implementation of the revisions. Additionally, efforts were made to reach out and include the expertise of individuals and special interest groups that expressed interest in contributing to the effort.

Local Boards and Commissions have authority including the following duties: the operation and maintenance of the infrastructure, jurisdiction related to land use practices, enforcement of soil erosion control, operation of parks and recreation activities. Local Boards and Commissions including elected officials, decision makers, Town Department Heads, Economic Development Agency, Operational Staff and citizens contributed to the effort to develop and implement the Stormwater Management Plan. Public Informational Meetings were held to address water quality issues at Paderewski Park Pond. The outcome was the establishment of a group called Friends of Paderewski Park Pond. The goal of this group is to monitor and advise Town policy makers on the health of the pond. The group has met regularly and is currently coordinating efforts to develop policies and practices which are intended to preserve the ecological features of an urban pond. Additional undertakings have been proactive actions to enhance the water quality of the pond as deemed appropriate, provided operational advice to improve maintenance practices which may impact the pond. One accomplishment of the Friends of Paderewski Park was to commission a study to determine the general health of the resource. The findings of this study were presented to the Town Council and Conservation Commission. The public had an opportunity to comment on the findings.

Other groups such as State Agencies, Environmental Groups, Trade Organizations, private individuals, (Developers, Facility Owners, Environmental Activists, Educators, and Neighborhood Leaders), were invited to attend informational meetings as warranted. During the review of a proposed Multi-use path

various individuals interested in environmental concerns were afforded the opportunity to participate in the development of a route consistent with sound environmental practices.

Local support of the Stormwater Management Plan has involved efforts by various groups to clean-up the community, change the public's attitudes and modify the public's practices regarding environmental issues. (I.e. River Clean-ups, Plainville Freedom Lawn Initiative and support of Capital Upgrades to Town Facilities, Conservation Subcommittee Friends of Paderewski Park Pond).

The Stormwater Management Plan and Annual Reports are available for public review on the Town's Web site and in the Engineering Department. The Annual Report was "Spotlighted" on the Town's Home Page for several weeks after its posting.

During the 2020 calendar year, the Town of Plainville will continue to maintain practices, policies and regulations that are consistent with the Storm Water Management Plan.

Ongoing after April 2017 Yearly Review and Action	Comply with State and Local Public Notice and Freedom of Information Requirements (BMP ID #2-1A)	Town Clerk Technical Services – Completed – No FOI Requests Received – Pertinent documents made available for review on the Town's Web Site and at the Engineer's Office – Goal for 2020 Post pertinent materials on Town's Web Site
Ongoing after April 2017 Yearly Review and Action after April 2017	Identify Stakeholders (BMP ID #2-2A)	Technical Services – Ongoing Specific to actions or projects – Input from interested individuals and groups considered prior to actions
Ongoing after April 2017	Contact stakeholder groups (BMP ID #2-2B)	Technical Services – Ongoing Specific to actions or projects – Goal for 2020 maintain dialog with Wetlands, Planning/Zoning and Conservation
Ongoing after April 2017	Conduct informational meeting with various stakeholder groups (BMP ID #2-2C)	Technical Services – None Required – Groups involvement Included in the normal process
Ongoing after April 2017	Support Community Clean-ups (BMP ID #2-3A)	Technical Services Physical Services Conservation Commission – Town wide Spring Clean-up 2019 – Goal for 2020 maintain support of Town wide Spring Clean-up
Ongoing after April 2017	Support existing Boards and Commissions referring interested individuals to the appropriate group (BMP ID #2-4A)	Technical Services Various Commissions/Boards Town Manager

		Town Council – Support provided as warranted – Public Projects and Private Development
Ongoing after April 2017	Support existing Boards and Commissions referring interested individuals to the appropriate group (BMP ID #2-4B)	Technical Services Various Commissions/Boards Town Manager Town Council – support provided as warranted – private development proposals and public projects
Ongoing after April 2017	Encourage citizens to aid in the identification of polluters (BMP ID #2-4C)	Technical Services Town Manager Town Council – Out reach provided

MINIMUM CONTROL MEASURE

ILLICIT DISCHARGE DETECTION AND ELIMINATION

Illicit discharge identification and elimination represents an important element of preventing and eliminating the harmful impacts of point source pollutants. The Stormwater Management Plan addresses the potential adverse effects of illicit discharges on the environment. Illicit discharges are defined as non-storm flows, connections from washing machines, dishwasher or sinks, paint cleaners or chemicals, overflowing sanitary sewers, leaking septic tanks and failing septic fields, oil, gas and car fluids, cooking oil and grease, litter and legal dumping. Discharges DEEP considers exceptions to illicit discharges are water line flushing, landscaping irrigation overflow, diverted stream flows, uncontaminated ground water infiltration, uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, springs, water sump pumps, footing drains, lawn watering, individual residential car washing, dechlorinated swimming pool discharge and firefighting activities.

The measurable results of the Illicit Discharge Detection and Elimination elements of the Stormwater Permit are as follows:

The Town of Plainville updated accordingly the Master Drainage Utility Maps to identify each discharge and associated watershed. Additionally, each discharge has been field located by coordinates, photographed, numbered, logged and inspected. The inspection notes include recommendations to the Roadway Department to be incorporate into their Improvement and maintenance schedule. A systematic reinspection system was established. Approximately 50% of the drainage outlets were reinspected during 2017 with an additional 25% during 2018. The remaining 25% were reinspected in 2019. The goal in the future will be to reinspect each discharge once every five years. During the 2020 calendar year. It is the engineering department's goal to reinspect 20% of the Town's drainage outlets.

Field personnel were briefed on the identification of illicit discharges and their potential adverse effects. Periodic discussions with staff were conducted to introduce new topics or retrain employees.

The Town adopted an Ordinance entitled “Illicit Discharge and Stormwater Connections” consistent with EPA’s Model Ordinance on 6/17/2019. This ordinance will complement the Town’s existing permit system for drainage connection to the Town’s stormwater drainage system.

Property Owners are required to secure a permit from the Engineering Department before any connection to the drainage system is granted. The application process requires a description of the type of discharge, estimated volume, construction methods and construction plan. All connections are inspected during the installation. Connections discovered without a permit are required to secure a permit after the fact or ordered to be removed whether by the Town or property owner. One permit, 5 Sachem Road, was issued during the 2019 calendar year. No discharge locations were discovered that connected without a permit.

Plainville’s urban setting and preexisting dense development make it extremely difficult to eliminate entirely all connections to the public drainage. The definition of allowed or exempt illicit discharges as provided by DEEP’s critique of the 2016 Annual Report and EPA’s Model Ordinance doesn’t address interior footing drains. The open sump pit can also function as a floor drain. It is unlikely such circumstances/discharges could unilaterally be defined as uncontaminated ground water discharges, thus, risk of contamination from such connections will not be eliminated.

The Town has worked diligently with its residents and staff to report evidence of pollution, trace the pollution to its source, enforce the appropriate rules or regulations and eliminate the source of the contaminates.

Educational materials were made available to business owners and the general community outlining the permit system and reasons why the elimination of illicit discharges is important.

The intentional discharge of contaminates to the environment by individuals or organizations would appear to be in violation of other regulations administered by other agencies. Contaminates such as industrial chemicals are permitted by DEEP. Such permits include the Industrial Stormwater Permit. Accidental discharges are customarily addressed by DEEP with immediate and long term remediation.

During the 2020 calendar year, the Town of Plainville will continue to maintain practices, policies and regulations that are consistent with the Stormwater Management Plan. The inspection of drainage outlets will continue until completion.

The overall IDDE program continues to be evaluated and modified to be consistent or (more consistent) with the standards set forth by the current MS4 permit including the establishment of the definition of an illicit discharge and legal authority to prohibit/control them. The IDDE program was adopted October 2019 and posted on the Town’s web site.

During the past calendar year, there were no sanitary sewer spills as reported by the Town’s Water Pollution Control Department. There are no know cross connection between the drainage system and sanitary sewer system or combined sewers. Also, there are no known continuous or regular occurring sanitary sewer overflows into the drainage system.

During the 2019 calendar, no known septic system failures caused direct overflows into the drainage system. Ten (10) existing septic systems were repaired and one new system was installed.

Target Year	Activity	Responsible Department
June 2018	Develop a Written IDDE Program (BMP ID #3-1A)	Technical Services – Completion Target Date May 2019 – Completed October 2019 – Posted of Town Web Site December 2019 – Goal 2020 Ongoing review and revisions as warranted
Ongoing after April 2017	Revise Master Drainage Maps (BMP ID #3-2A)	Technical Services – Review Completed – Revisions Completed – Goal maintain master maps as warranted – Goal 2020 Yearly updates as warranted
Ongoing after April 2017	Inspect Drainage Outlets (BMP ID #3-2B) water	Technical Services – 193 of 261 outlets inspected during calendar year 2017 and 2018– Goal for 2019 complete 68 inspections outlets – Task Completed Goal 2020 reinspect 20% - 65 inspections
Ongoing after April 2017	Develop Citizen Reporting Program (BMP ID #3-3A)	Technical Services – completed – Annual Review completed – Goal for 2020– maintain and/or modify as warranted
Ongoing after June 2019	Review Existing Ordinance and Regulations (BMP ID #3.4A)	Technical Services – Ordinance and Regulation reviewed for concurrence. – Draft Ordinance IDSC was drafted and provided to the Town Attorney - Goal for 2019 Establish Ordinance IDSC –EPA Model Ordinance – adopted June 2019 – Task Completed
June 2020	Begin to systematically elimination of illicit discharges (BMP ID #3-6B)	Technical Services Physical Services
Ongoing after June 2019	Draft Ordinance to Establish legal authority to prohibit illicit discharges (BMP ID #3.4B)	Technical Services Town Attorney Town Manager Town Council – Established a Permit System to identify and control discharges – complete – Goal for

		2019 adopt Ordinance – Complete Ordinance adopted June 2019
June 2019	Identify and prioritize categories of non-stormwater discharges (BMP ID #3-6A)	Technical Services - Physical Services – Completed October 2019 IDDE Program – Goal reassess if warranted

Minimum Control Measure

Construction Site Runoff Control

Construction activities by their nature have the potential to create circumstances that generate unintended adverse impacts to the environment. The Town has developed and implemented various practices and procedures consistent with generally accepted BMPs to minimize these impacts.

The measurable results of the Construction Site Runoff Control elements of the Stormwater Permit are as follows:

The Planning and Zoning Commission has developed practices that increase the number of redundant measures required to control the impacts of construction activities. Erosion and Sediment Control measures and proper storage and use of construction chemicals and products are addressed in the current revised regulations and standard practices. The practice of closely reviewing the Erosion Control Plan and construction sequences of projects is seen as a critical element of the application process by the Planning and Zoning Commission. The Commission has directed staff to concentrate efforts on patterned problematic issues such as equipment maintenance and refueling and water way protection. Review considerations and inspection practices are consistent with the guidelines set forth in Connecticut Guidelines for Soil Erosion and Sediment Control dated 2002.

Other agencies such as the Wetland and Conservation Commission are consulted as warranted and have presented review comments which have assisted staff and the Planning and Zoning Commission in making prudent decisions regarding the protection of the environment.

An example of the increased redundancies, revised regulations and standard practices supported by the Town's land use Commissions are requirements in the erosion control regulation to install silt fences back-upped by hay bales. Additionally, runoff from construction sites must pass through a detention area before discharging off site.

A routine requirement of land use approvals is to require inspections before construction activities begin. Additional inspections occur as part of other inspections. Availability of staff precludes periodical routine inspections specifically for construction site runoff control on most projects; however, special attention is given to sites where past problems have occurred or a special concern was noted. Inspection notes are generated summarizing the current conditions, observed circumstances which present problems, conversations with responsible parties, instructions and enforcement actions.

Enforcement actions have been standardized to include the following procedure: The owner/responsible party is immediately notified verbally, a written order is issued and delivered, remediation plan is ordered, developed and implemented for immediate and long-term solutions, and follow-up inspections occur until the problem and damage is resolved.

The public is encouraged to offer comments during the review period. Plans are available for review in the Planning Office or with the Department of Technical Services. Oral and/or written comments are accepted by staff and the Commissions. Under certain circumstances, public hearings afford the public an opportunity to directly address the Commissions. Additionally, the public is encouraged to report any circumstance resulting from construction activities that they believe is a hazard to the environment. Each inquiry is investigated, and appropriate action is taken.

Actions undertaken include inspection and enforcement, receipt of public comments related to construction activities and reconsideration of practices and regulations regarding the control of runoff from construction activities.

During the 2020 calendar year, the Town of Plainville will continue to maintain practices, policies and regulations that are consistent with the Storm Water Management Plan. Additionally, the Engineering Department will review the standards and recommended practices and adopt prudent modifications if warranted.

Target Year	Activity	Responsible Department
Ongoing Yearly Review after April 2017	Review and Reconcile existing Town Ordinance "An Ordinance Establishing the Plainville Soil Erosion and Sediment Control Regulations (BMP ID #4-1A)	Technical Services Town Attorney Town Manager Town Council Completed – Goal for 2020 – Maintain Regulations with current standards
Ongoing Yearly Review after April 2017	Review and Reconcile Planning and Zoning Regulations with Stormwater Plan (BMP ID #4-1B)	Technical Services - Town Planner - Planning and Zoning Commission – Goal for 2019 – consider Stormwater Plan during the review of the Master Plan of Conservation and Development – Task Complete – Goal for 2020 – consider Stormwater Plan during the adoption of regulation revisions and site reviews
Ongoing Yearly Review after April 2017	Review and Reconcile Inland Wetland Regulations with Stormwater Plan (BMP ID #4-1C)	Technical Services - Town Planner Inland Wetland Commission- Complete – Goal for 2019 maintain regulations to current standards -

		Complete – Goal 2020 continue consideration modify as warranted
Ongoing Yearly Review after April 2017	Examine and refine review procedures Private development (BMP ID #4-2A)	Technical Services - Town Planner – Complete – Goal for 2019 maintain procedures to current standards – Complete – Goal 2020 continue consideration modify as warranted
Ongoing Yearly Review after April 2017	Examine and refine review procedures public construction (BMP ID #4-2B)	Technical Services - Town Planner – Complete – Goal for 2019 maintain procedures to current standards – Complete – Goal 2020 continue consideration modify as warranted
Ongoing Yearly Review after April 2017	Develop a plan and procedures for interdepartmental review coordination (BMP ID #4-2C)	Technical Services - Town Planner – Complete – Goal for 2020 continue implementing computer permit system – Viewpoint
Ongoing Yearly Review after April 2017	Review and refine inspection and enforcement procedures (BMP ID #4-3A)	Technical Services - Town Planner – Complete- Goal for 2020 continue maintaining practices and updating when warranted
Ongoing Yearly Review after April 2017	Identify priority criteria for site inspection and enforcement (BMP ID #4-3B)	Technical Services - Town Planner – Complete – Goal for 2020 continue maintaining practices and updating when warranted
Ongoing Yearly Review after April 2017	Develop formal inspection schedule (BMP ID #4-3C)	Technical Services - Town Planner – complete – Goal for 2020 continue maintaining practices and updating when warranted
Ongoing Yearly Review after April 2017	Conduct Site Inspections (BMP ID #4-4)	Technical Services - Town Planner – Goal for 2020 continue conducting inspections as warranted
Ongoing Yearly Review after 2017	Develop procedure for Public Comments for construction activities (BMP ID #4-5A)	Technical Services - Town Planner – Complete – Goal for 2020 continue maintaining

		practices and updating when warranted
Ongoing Yearly Review after 2017	Develop procedures for tracking public comments inquires and associated actions (BMP ID #4-5B)	Technical Services Town Planner – Complete – Goal for 2020 continue maintaining and or modifying procedures as warranted
Ongoing Yearly Review after 2017	Implement procedure to notify Developers about DEEP Construction Stormwater Permit	Technical Services - Town Planner - Complete – Goal for 2020 continue maintaining and or modifying notification procedure

Minimum Control Measures

Post Construction Runoff Control

Regulations and Ordinances were initiated to develop practices which govern the amount and quality of storm water discharges from developed projects. These regulations and ordinances are generally summarized in the Town's "Low Impact Development and Stormwater Design Manual" including low impact development principals. All new developments or redevelopments implement elements that reduce the volume of runoff and enhance the quality of runoff. Developer proposals are required to provide calculations and evidence that demonstrates the principals and objectives of the "Low Impact Development and Stormwater Design Manual" are achieved. Additionally, Town staff performs inspections as warranted post construction to ensure the objectives were achieved and maintained.

The measurable results of the Post Construction Runoff Control elements of the Stormwater Permit are as follows:

During the 2020 calendar year, the Town of Plainville will continue to maintain practices, policies and regulations that are consistent with the Storm Water Management Plan. Additionally, the Engineering Department will review the standards and recommended practices of the new MS4 permit requirements and modified the Post Construction Runoff Control goals and objectives as warranted.

Target Year	Activity	Responsible Department
Ongoing Yearly Review after 2017	Review and Reconcile existing Town Ordinance "An Ordinance Establishing the Plainville Soil Erosion and Sediment Control Regulations (BMP ID #4-1A)	Technical Services Town Attorney Town Manager Town Council - Complete – Goal for 2020 continue maintaining and or modifying as warranted

Ongoing Yearly Review after April 2017	Review and Reconcile Planning and Zoning Regulations with Stormwater Plan (BMP ID #4-1B)	Technical Services Town Planner Planning and Zoning Commission Regulation Review Completed – Goal for 2020 continue incorporating consideration of the Stormwater Management Requirements into the review of Development Plans
Ongoing Yearly Review after April 2017	Review and Reconcile Inland Wetland Regulations with Stormwater Plan (BMP ID #4-1C)	Technical Services – Town Planner Inland Wetland Commission – Completed – Goal 2020 continue to ensure Town Wetland Regulation are consistent with DEEP’s model regulations – modify if warranted
Ongoing Yearly Review after April 2017	Examine and refine review procedures Private development (BMP ID #4-2A)	Technical Services Town Planner – Completed – Goal for 2020 Review and modify if warranted
Ongoing Yearly Review after April 2017	Examine and refine review procedures public construction (BMP ID #4-2B)	Technical Services Town Planner – Completed– Goal for 2020 Review and modify if warranted
Ongoing Yearly Review after April 2017	Develop a plan and procedures for interdepartmental review coordination (BMP ID #4-2C)	Technical Services Town Planner – completed – Goal for 2020 Review and modify if warranted
Ongoing Yearly Review after April 2017	Review and refine inspection and enforcement procedures (BMP ID #4-3A)	Technical Services Town Planner – completed – Goal for 2020 Review and modify if warranted
Ongoing Yearly Review after April 2017	Identify priority criteria for site inspection and enforcement (BMP ID #4-3B)	Technical Services Town Planner – completed – Goal for 2020 Review and modify if warranted
Ongoing Yearly Review after April 2017	Develop formal inspection schedule (BMP ID #4-3C)	Technical Services Town Planner – completed – Goal for 2020 Review and modify if warranted
Ongoing Yearly Review after April 2017	Conduct Site Inspections (BMP ID #4-4)	Technical Services Town Planner – completed - Goal for 2020 perform inspections as warranted

Ongoing Yearly Review and Implementation after April 2017	Develop procedure for Public Comments for construction activities (BMP ID #4-5A)	Technical Services Town Planner Goals for 2020 receive public comments and revise procedure as warranted
Ongoing Yearly Review and Implementation after April 2017	Develop procedure for tracking public comments inquires and associated actions (BMP ID #4-5B)	Town Planner Technical Services – completed Goal for 2020 track inquiries and modify procedures if warranted
Ongoing Yearly Review and Implementation after July 2017	Implement procedure to notify Developers about DEEP Construction Stormwater Permit	Technical Services Town Planner – Completed – Note Required on Approved Construction Plans – Goal for 2020 continue to notify developers

Minimum Control Measures

Pollution Prevention/Good Housekeeping

Implementing procedures and policies that prevent and or minimize pollutants encountering storm water runoff is important to maximize the quality of the storm water. Municipal functions and activities can affect storm water quality. The consideration of eliminating water pollution needs to be integrated into operational functions. Instituting best management practices including pertinent employee training, inspection procedures, maintenance schedules and operational functions are important in the reduction and/or elimination of pollutant discharges from municipal facilities such as roadways, parking areas, maintenance facilities, parks and grounds, storage complexes and waste handling locations.

The measurable results of the Pollution Prevention/Good Housekeeping elements of the Stormwater Permit are as follows:

The Town has undertaken various initiatives to reduce or eliminate pollutant discharges. The measurable results of the Pollution Prevention/Good Housekeeping elements of the Storm Water Management Plan during the past calendar year are the following:

Practices, methods and materials used have been reviewed and modified when warranted, thus reducing the potential for pollutant discharges. Practices such as the elimination of the grit component used for snow/ice control has vastly reduced the amount of sediment washed into the drainage system and ultimately into the receiving water. Operations such as street sweeping and catch basin cleaning can be completed in a timelier fashion after the snowmelt because the volume of material needing to be collected is vastly less.

Modifications to fleet maintenance practices include inspections of vehicles for fluid leaks. These routines inspections are completed during periodical scheduled maintenance. Drivers have been instructed to look out for fluid spots when moving the vehicle from their overnight parking spaces and report them to the fleet maintenance division. Fleet maintenance practices have been modified to

recycle materials when appropriate. Additionally, all maintenance functions are completed inside the garage. Modified practices have also included the use of less toxic fluids when practical.

Building maintenance practices have been changed to avoid the use of toxic materials. Additionally, control structures such as grease traps and grit separators have been installed to avoid the introduction of floatable and or settable materials. These control structures are routinely inspected and cleaned when warranted.

Landscaping practices are reviewed to determine the appropriate applications of fertilizers and pesticides. The Town has adopted management practices to apply nutrients and pesticides at the appropriate times and amounts, Integrated Nutrient and Pesticide Management Program. Additionally, fertilizer and pesticide applications have been eliminated at certain sensitive locations as deemed appropriate.

Storm water drainage structures at each facility are managed in a similar manner as drainage structures located on the roadways. Structures are regularly inspected and cleaned when warranted. Materials removed from the structures are disposed of in an appropriate manner. Some structures in areas prone to collect debris and sensitive areas are cleaned of debris twice a year, (spring and fall). Generally, the structures are clean on a three-year rotation.

A program was developed to sweep all streets at least once a year as soon as possible after snowmelt. Additionally, a program was developed and implemented to inspect areas known to require additional sweeping. These areas are swept more periodically, as warranted. A sand/salt deicing mixture has been replaced with an all salt practice, thus, vastly reducing the volume of grit on the roadways which could discharge into the waterways. Each street and public parking area was swept in the spring.

A program was developed, instituted and reviewed periodically to ensure each catch basin and outlet is inspected in a timely manner depending upon historical records of past problems. Catch basins sumps are cleaned generally once every other year. Catch basin known to collect large volumes of debris are clean yearly or more frequently as required. Drainage outlets are repaired and cleaned as warranted based on inspections and a priority system. Each catch basin was inspected and clean as warranted.

During the 2020 calendar year, the Town of Plainville intends to continue practices and policies which are consistent with best management practices avoiding the introduction of pollutants to storm water consistent with the guidelines of the MS4 permit. Additionally, the Engineering Department will review the standards and recommended practices of the MS4 permit requirements and modified the Pollution Prevention/ Good Housekeeping goals and objectives as warranted. There will be an emphasis on winter deicing salts during the next calendar year. Efforts will be made to determine whether it is practical to reduce the amount of deicing salts applied during snow and ice removal operations.

Target Year	Activity	Responsible Department
Ongoing Yearly Review after April 2017	Municipal Employee Training and Awareness (BMP ID #6-1)	Public Works – Roadway, Building and Grounds Water Pollution Control – Training Completed by Operational supervisors – Goal for 2020 provide annual training
Ongoing Yearly Review after April 2017	Develop and Implement BMPs for Facility maintenance and practices (BMP ID #6-2)	Public Works – Roadway, Building and Grounds Water Pollution Control – Completed - Goal for 2020 Operational practices reviewed and modified as warranted
January 2020	Implement coordination with another interconnect MS4s (BMP ID #6-3)	Technical Services
Ongoing Yearly Review after April 2017	Develop/implement program to control other sources of pollutants to MS4s (BMP ID #6.4A)	Technical Services Public Works – Operational practices reviewed and modified as warranted
Ongoing Yearly Review after April 2017	Review of Practices, Methods, and Materials (BMP ID #6-4B)	Technical Services Public Works – Review Completed – Goal for 2020 review and update as warranted
January 2019	Evaluate additional measures for discharges to impaired waters (BMP ID #6.5)	Technical Services – complete October 2019 – Goal 2020 reevaluate as required
January 2020	Track projects that disconnect DCIA (BMP ID #6.6)	Technical Services
Ongoing Yearly Review after 2017	Develop program to evaluate and prioritize system for upgrade and or repair (BMP ID #6-7)	Technical Services Public Works – Approximately 75% of drainage system inspection and repairs prioritized – Goal for 2019 complete – Goal for 2020 reinspect 20%

		of System and prioritize repair goals based on initial inspection
January 2020	Develop/implement plan to identify/prioritize retrofit projects to disconnect DCIA – Goal 2% per year (BMP ID #6-8)	Technical Services
Ongoing Yearly Function	Develop/implement street sweeping program (BMP ID #6-9)	Public Works – Roadways – All streets swept spring of 2019 – Goal for 2020 – Sweep all Streets in spring 2020

Screening/Monitoring

The monitoring requirements of the MS4 permit program beginning July 1, 2017 consists of the following elements: Impaired Waters Outfall Investigation and Monitoring, Dry Weather Baseline Outfall/Interconnection Screening and Sampling, Wet Weather Outfall Sampling and Follow-up Screening.

Impaired Waters Outfall Investigation and Monitoring

The Town discharges to the following impaired waters:

Quinnipiac River – Queen Street to Hamlin Pond – PCBs and E-coli – Catchment Area #1

Pequabuck River – Route 72 to the Bristol City Line – E-coli – Catchment Area #2

Outlets discharging into these areas need to be screened for the pollutant identified as the pollutant of concern for the impairment. A review of the Master Drainage maps indicates 44 outfalls discharge directly into impaired waters.

Bacteria shall be sampled in accordance with the wet weather criteria: E-coli and Total Coliform (col/100ml). Further investigation needs to identify the source should the sampling exceed the following limits: E-coli > 410 Col/100 ml (non –swimming Area and/or Total Coliform > 500 col/100ml in any area. Any outlet discharges exceeding the limits shall be investigated to determine the source of the bacteria. When the source of the bacteria is determined, a remediation plan needs to be implemented. Should the source be determined to be natural no remediation is required. Natural sources are wildlife or runoff from undeveloped areas. Sources such as pest waste and waterfowl congregating at parks, ponds or other attractive nuisance areas are not considered natural.

Screening for PCBs shall be completed by determining turbidity. The turbidity shall be sampled from the outfall and in-stream immediately upstream or otherwise outside the influence of the outfall. The sample may be taken during any rain event that results in a discharge that fulfills the wet weather criteria. If the field turbidity meter reading from the outlet's discharge is more than 5 NTU greater than the in-stream reading a follow-up investigation needs to be initiated to determine any sources. Upon determining the source(s) a remediation program needs to be implemented.

The screening results of outlets discharging to impaired waters shall be analyzed to determine prioritized Outfall Monitoring. Six outfalls with the highest contribution of each pollutant of concern shall be annually monitored for the appropriate pollutant(s) of concern.

Schedule of Deadlines

Initiate Impaired Waters Outfall Screening -	June 30, 2018 Not Achieved Revised Goal Begin Screening June 30, 2019 – Initiated October 2019
50% Outfalls Screened	June 30, 2020 – Not Going to be Achieved – Goal for completion June 2021
100% Outfalls Screened	June 30, 2022
Annual Monitoring (six Outfalls)	June 30, 2022

Dry Weather Baseline Outfall/Interconnection Screening and Sampling

All outlets need to be inspected for the presence of dry weather flow. Those outlets in which dry weather flow is observed shall be sampled. The purpose of this sampling is to identify illicit discharges and work to eliminate such discharges. The samples shall be analyzed for the following items: ammonia, chlorine, conductivity, salinity, E-coli, surfactants and temperature.

Based on the findings of the dry weather inspections and a review of other pertinent factors which are identified as increasing the potential for illicit discharges, the outlets will be prioritized by the likelihood and risk of the potential presence of illicit discharges. The general priorities are generally as follows: Dry weather flow to impaired waters, Outlets in areas predominantly in areas serviced by subsurface septic systems beginning with non-residential uses, dry weather flow to non-impaired waters wet, weather flows to impaired waters and all other outlets.

Sampling of dry weather flows will be scheduled in accordance to the potential risk of illicit discharges and efficient use of time resources as describe above.

Schedule of Deadlines

Initiate Dry Weather Sampling – no later than October 1, 2018 – Not Achieved – Goal June 30, 2019 – Dry Weather Sampling initiated in October 2019 – 69 Locations – 17 Locations had flow and were screened – Results of screening indicated no locations had tested parameters which exceeded the limit thresholds – See Summary in Appendix A
All Sampling Complete – June 30, 2020 – Revised Completion Goal June 2022

Wet Weather Outfall Sampling

All outlets shall have at least one (1) wet weather sample collected for analyzed for the following items: ammonia, chlorine, conductivity, salinity, E-coli, surfactants and temperature. Sampling must occur during or after a storm event of sufficient quantity or intensity to produce stormwater discharge at the outlet. Sampling if possible, should occur during periods when ground water levels are relatively high, March through June ideally.

Based on the findings of the dry weather inspections and a review of other pertinent factors which are identified as increasing the potential for illicit discharges, wet weather outfall sampling will be prioritized by the likelihood and risk of the potential presence of illicit discharges. Wet weather sampling will be generally prioritized as follows: outlets to impaired waters, outlets in areas serviced by subsurface septic disposal, industrial areas, commercial areas and residential areas.

Schedule of Deadlines

Initial Wet Weather Screening to Begin March 2020 – Retained Tighe and Bond Engineers to execute task – Projected # of samples to be tested in 2020 – 40 locations

Completion Goal: All outlets to be sampled prior to the Permit Expiration Date – June 30, 2022

Confirmatory Outfall Screening

A confirmatory outfall screening shall be completed within one (1) calendar year of the removal of any illicit discharge and or correction of a sanitary sewer overflow. The confirmatory screening must be conducted during a dry weather condition unless System Vulnerability Factors have been identified in which both dry and wet

weather needs to be conducted. If the confirmatory screening indicates evidence of additional illicit discharges and or sanitary sewer overflows further investigation and remedies shall be pursued. Confirmatory Outfall Screening shall be analyzed for the following items: ammonia, chlorine, conductivity, salinity, E-coli, surfactants and temperature.

Follow-up Screening

Upon completion of all catchment investigation and illicit discharge removal and confirmatory, each outfall or interconnection shall be re-prioritized for screening and scheduled for ongoing screening within five (5) years. Follow-up screening shall consist of dry weather screening and sampling. Follow-up wet weather screening and sampling shall also be conducted at outfalls where wet weather screening was required due to System Vulnerability factors.

Screening/Monitoring 2019

During the past calendar year, the Town of Plainville completed the reassessment for the Town's 261 identified drainage outfalls. Upon further review the number of required wet and dry screening locations was revised to 178 locations. All outfalls including those previously identified were inspected, photographed and categorized. A simple worksheet was used to record any findings. During the 2018 calendar year forty- four (44) outlets discharging directly to impaired waters and one hundred and five (105) (total of 149) other outfalls were inspected, photographed and categorized. The remaining one hundred and twelve, (112) outlets were inspected, photographed and categorized in calendar year 2019. The total outlets were subdivided into structures with and without dry weather flow. Of all the outlets, 37 were determined to have dry weather flow. Outfalls with dry weather flow were identified as the highest priority screening sites with outfalls to impaired water receiving the highest priority.

The System Vulnerability Factors were examined. These factors included: history of sanitary sewer overflows, common or twin invert storm and sanitary sewer alignments, common trench alignment, crossing of storm and sanitary sewers alignment with sanitary sewers constructed above the drainage facilities, sanitary sewers constructed in conjunction with underdrains, inadequate sanitary sewer service and areas serviced by septic systems. Of the factors two were deemed appropriate for consideration, crossing storm and sanitary sewers and areas serviced by septic systems.

During the 2019 calendar year, the screening concentrated on dry weather flows in areas service by septic systems.

Dry Weather Screening – 69 locations, 17 of which had flow. Documented in Appendix A Of those having flow none of the required parameters to be monitored exceeded the maximum limit thresholds

Wet Weather Screening – No wet weather screening was completed during the 2019 calendar year.

Screening/Monitoring 2020

Dry Weather Screening - Goal Evaluate 75 Outfalls – Complete sampling/testing as required for those locations having dry weather flows – Document Findings – Initiate Follow-up inspections as required

In 2020, dry weather screening is areas where the storm water facility cross, where storm water facilities are below sanitary sewer facilities and/or where sanitary sewer facilities are within or adjacent to wetland areas. Dry weather screening in these areas appear the most appropriate to determine potential illicit discharges. Prior to establishing priority locations, as-built construction plans for drainage and sewer plans be reviewed to determine the locations of crossing storm and sanitary sewers. These locations along with outlets in areas predominantly in areas served by subsurface septic systems will be noted in the Summary Worksheet.

Wet Weather Screening – Goal Evaluate/Test 50 Outfalls – Document Findings - Initiated Follow-up inspections as required

Impaired Waters Investigation and Monitoring Program

Target Date	Activity	Responsible Department
June 2018 Revised Target Date – June 2019 – Completed August 2020 Yearly Reassessment thereafter	Assessment and Priority Ranking of Catchment Data	Technical Services – Goal for 2019 is to prioritize the outlets by potential risk of illicit discharges – complete August 2020
October 2018 Revised Target Date – June 2019 – Completed October 2019	Initiate Dry Weather Sampling	Technical Services – Goal for 2019 is to complete the initial inspection and screen approximately 50% of the identified dry weather flow locations – Complete October 2020
June 2020 – Revised June 2022	Dry Weather Sampling Complete	Technical Services
June 2022	Wet Weather Sampling Complete (each outlet at least one time)	Technical Services – Goal 2020 – Initiate Wet Weather Screening between March and June – Town retained Tighe & Bond Engineers to perform the task – 50 samples
As Warranted	Confirmatory Outfall Screening	Technical Services
As Warranted	Follow-up Screening	Technical Service

Certification

I have personally examined and am familiar with the information submitted in this document and all the attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.

Respectively Submitted By:

Robert E. Lee
Town Manager
April 1, 2020

John R. Bossi
Director of Technical Services
April 1, 2020

APPENDIX A

APPENDIX A

DRY WEATHER SCREENING (Revised January 10, 2020)

Catchment ID	Location	Outlet Type	System Vulnerability Factors						PH	Conductivity	Salinity	Temperatue	TDS	Ammonia	Chlorine	Surfactants	E. Coli
			Dry Screening Necessary	Discharge Directly to Impaired Waters	Within Septic Service Area	Sewer/ Drainage	Dry Weather Flow	Dry Weather No Flow									
									µS/cm	ppt	°F		≥ 0.5 mg/L	Any	≥ 0.5 mg/L	410 col/mL	
5-01	Fleetwood Drive	Street Outfall HW	✓				✓		7.10	1315	0.66	62.0	652	0.00	0.00	Not Detected	387
5-02	Farmhill Drive	Street Outfall Pipe	✓														
5-03	Farmhill Drive	Street Outfall Pipe	✓														
5-04	Farmhill Drive	Watercourse Inlet															
5-05	Farmhill Drive	Watercourse Outlet															
5-06	Shepard Lane	Street Outfall FE	✓		✓			✓									
5-07	Northwest Drive	Street Outfall FE	✓		✓			✓									
5-08	Northwest Drive	Street Outfall FE	✓		✓		✓		6.14	381	0.19	53.4		0.00	0.00	< 0.100	< 50
5-09	Northwest Drive	Watercourse Inlet			✓												
5-10	Northwest Drive	Watercourse Inlet			✓												
5-11	Spring Lane	Watercourse Inlet			✓												
5-12	Spring Lane	Watercourse Outlet			✓												
5-13	Spring Lane	Watercourse Outlet			✓												
5-14	Spring Lane	Watercourse Inlet			✓												
5-15	Spring Lane	Street Outfall FE	✓		✓			✓									
5-16	Maxine Road	Watercourse Inlet															
5-17	Spring Lane	Watercourse Inlet			✓												
5-18	Maxine Road	Street Outfall HW	✓					✓									
6-01	Northwest Drive	Street Outfall FE	✓		✓			✓									
6-02	Northwest Drive	Remove from inventory			✓												

6-03	Northwest Drive	Street Outfall FE	✓		✓												
6-04	Northwest Drive	Street Inlet HW			✓												
6-05	Northwest Drive	Street Outfall FE	✓		✓	✓		7.04	583	0.30	57.2		0.00	0.00	< 0.100	< 50	
6-06	Northwest Drive	Watercourse Outlet			✓												
6-07	Northwest Drive	Street Inlet Leakoff			✓												
6-08	Northwest Drive	Street Outfall FE	✓		✓	✓		7.40	894	0.45	57.0	636	0.00	0.00	< 0.100	< 50	
7-01	Northwest Drive	Street Outfall FE	✓	✓	✓		✓										
7-02	Farmington Avenue	Street Outfall HW	✓	✓	✓												
7-03	Northwest Drive	Street Outfall FE	✓	✓	✓		✓										
10-01	Hilltop Road	Street Outfall HW	✓														
11-01	Northwest Drive	Street Outfall Pipe	✓			✓		7.42	575	0.29	54.9	411	0.00	0.00	< 0.100	< 50	
11-02	Northwest Drive	Watercourse Inlet															
11-03	Northwest Drive	Street Outfall HW	✓														
11-04	Northwest Drive	Watercourse Inlet															
11-05	Northwest Drive	Watercourse Outlet															
11-06	Northwest Drive	Street Inlet FE			✓												
11-07	Northwest Drive	Street Outfall FE	✓		✓		✓										
11-08	Northwest Drive	Watercourse Inlet			✓												
11-09	Northwest Drive	Watercourse Outlet			✓												
11-10	Northwest Drive	Street Outfall HW			✓		✓										
11-11	Northwest Drive	Watercourse Inlet			✓		✓										
11-12	Northwest Drive	Street Outfall FE	✓		✓												
12-01	Northwest Drive	Street Outfall FE	✓	✓		✓		7.25	807	0.41	52.0	580	0.00	0.00	< 0.100	< 50	
12-02	Northwest Drive	Street Outfall FE	✓	✓		✓		7.40	1088	0.55	52.2	775	0.25	0.00	< 0.100	< 50	
12-03	Northwest Drive	Street Outfall FE	✓	✓													
13-01	Northwest Drive	Street Outfall FE	✓	✓	1		✓										
13-02	Woodside Lane	Street Outfall Pipe	✓	✓		✓		7.14	561	0.28	57.9		0.00	0.00	Not Detected	60	
13-03	Woodside Lane	Watercourse Inlet															
13-04	Cooke Street	Street Outfall FE	✓														
13-05	Northwest Drive	Remove from inventory															

13-06	Mel Road	Watercourse Inlet																			
13-07	Mel Road	Watercourse Inlet																			
14-01	Fawn Drive	Street Outfall FE	✓																		
14-02	Fawn Drive	Watercourse Inlet																			
14-03	Pinnacle Road	Street Outfall FE	✓																✓		
14-04	Pinnacle Road	Street Outfall FE	✓						✓										✓		
14-05	Weatherstone Ridge Rd.	Remove from inventory																			
14-06	Metacomet Road	Street Outfall FE	✓																		
14-07	Metacomet Road	Watercourse Outlet																			
14-08	Metacomet Road	Watercourse Inlet																			
14-09	Metacomet Road	Street Outfall FE	✓																		
14-10	Metacomet Road	Street Outfall FE	✓																✓		
14-11	Metacomet Road	Street Outfall FE	✓																✓		
14-12	Metacomet Road	Street Outfall FE	✓																✓		
17-01	Northwest Drive	Watercourse Inlet HW																			
17-02	Northwest Drive	Watercourse Inlet FE																			
17-03	Northwest Drive	Watercourse Outlet Pipe	✓																		
17-04	Northwest Drive	Watercourse Inlet FE																			
17-05	Northwest Drive	Street Outfall HW	✓																		
17-06	Northwest Drive	Watercourse Inlet HW																			
17-07	Northwest Drive	Watercourse Outlet HW																			
17-08	Tyler Farms Road	Street Outfall FE	✓							✓			6.63	841	0.42	56.7	599	0.00	0.00	< 0.100	200
18-01	Tyler Farms Road	Street Outfall FE	✓																		
18-02	Tomasso Nature Park	Street Outfall FE	✓																		
18-03	Tomasso Nature Park	Watercourse Outlet FE (2)																			
18-04	Tomasso Nature Park	Street Outfall FE	✓																		
18-05	Granger Lane	Street Outfall FE	✓																✓		
18-06	Granger Lane	Watercourse Inlet Pipe (3)										✓									
18-07	Granger Lane	Watercourse Outlet Pipe (3)										✓									
18-08	Granger Lane	Watercourse Inlet Pipe										✓									

18-09	Granger Lane	Watercourse Outlet Pipe			✓												
18-10	Don Street	Street Outfall HW	✓		✓	✓		6.85	470	0.24	49.1	336	0.00	0.00	< 0.100	50	
18-11	Tomasso Nature Park	Street Outfall FE	✓		✓												
18-12	Tomasso Nature Park	Watercourse Inlet FE (2)			✓												
19-01	Cronk Road WPC	Street Outfall Pipe	✓	✓	✓												
19-02	Cronk Road WPC	Street Outfall HW	✓	✓	✓												
19-03	Cronk Road WPC	Street Outfall HW	✓	✓	✓												
19-04	Maiden Lane	Street Outfall Pipe	✓		✓												
19-05	Cleveland St. Ext.	Street Outfall HW	✓	✓													
19-06	Maiden Lane Berm	Watercourse Inlet Pipe															
19-07	Maiden Lane Berm	Watercourse Outlet Pipe															
19-08	Cronk Road WPC	Street Outfall Pipe	✓	✓	✓												
20-01	West Pine Way	Street Outfall FE	✓														
20-02	Cleveland Mem. Dr.	Converted to a MH															
20-03	Cooke Street	Street Outfall FE	✓														
20-04	Plum Tree Road	Street Outfall HW	✓														
20-05	Plum Tree Road	Street Outfall HW	✓														
20-06	Cooke Street	Street Outfall Pipe	✓														
20-07	Cooke Street	Watercourse Inlet															
20-08	Ivy Road	Street Inlet FE															
20-09	Ivy Road	Street Outfall HW	✓														
20-10	Ivy Road	Street Outfall	✓														
20-11	Grant Avenue	Watercourse Inlet Pipe															
20-12	Cooke Street	Street Outfall FE	✓														
21-01	Ivy Road	Street Outfall HW	✓														
21-02	Ivy Road	Street Inlet HW															
21-03	Sachem Road	Street Outfall Pipe	✓														
21-04	Pinnacle Road	Street Outfall HW	✓														
21-05	Sachem Road	Street Outfall FE	✓			✓		7.56	672	0.33	59.0	478	0.00	0.00	< 0.100	< 50	
21-06	Sachem Road	Street Outfall Pipe	✓														
21-07	Sachem Road	Street Outfall FE	✓														

21-08	Sachem Road	Street Outfall FE	✓																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</
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25-12	Robert Street	Street Outlet Pipe	✓	✓															
26-01	Cooke Street	Watercourse Inlet Pipes																	
26-02	Cooke Street	Watercourse Outlet Pipes																	
26-03	Cooke Street	Watercourse Inlet Pipes																	
26-04	Cooke Street	Watercourse Outlet Pipes																	
26-05	Cooke Street	Watercourse Inlet Pipes																	
26-06	Cooke Street	Watercourse Outlet HW																	
26-07	Cooke Street	Street Outlet Pipe	✓																
26-08	Cooke Street	Street Inlet HW																	
26-09	New Britain Avenue	Street Outlet HW	✓																
26-10	New Britain Avenue	Street Outlet HW	✓																
26-11	New Britain Avenue	Street Outlet WW	✓																
26-12	Cooke Street Rear	Street Inlet Pipe																	
26-13	New Britain Avenue	Street Inlet Twin Pipes																	
26-14	Sunrise Terrace	Street Outlet FE	✓																
26-15	Sunrise Terrace	Street Outlet FE	✓																
26-16	Cooke Street	Street Outlet Pipe	✓																
27-01	Cree Circle	Street Outlet Pipe	✓																
29-01	Hughes Street	Street Outlet Pipe	✓																
29-02	Wilson Street	Street Outlet HW	✓																
29-03	Forestville Avenue	Street Inlet HW																	
30-01	Camp Street	Street Outlet	✓					✓											
30-02	Forestville Avenue	Street Outlet HW	✓		✓				✓		7.32	459	0.23	52.3	326	0.00	0.00	< 0.100	< 50
30-03	McKernan Drive	Street Outlet HW	✓		✓			✓											
30-04	West Main Street	Street Outlet FE	✓					✓											
30-05	West Main Street	Street Outlet Pipe	✓		✓														
31-01	Neal Court Rear	Outlet Pipe	✓																
31-02	Norton Place	Outlet Pipe	✓																
31-03	Farmington Avenue	Private Outlet FE	✓																
31-04	West Main Street	State/Town Outlet Pipe	✓		✓														
31-05	West Main Street	Municipal Outlet FE	✓		✓														

32-01	New Britain Avenue	Quail Hollow Outlet Pipe	✓		
32-02	New Britain Avenue	State/Town Outlet Pipe	✓		
32-03	Colonial Court	Street Outlet HW	✓		
32-04	Sparks Street	Watercourse Inlet Pipe (2)			
32-05	Woodford Avenue	Watercourse Outlet Pipe (2)			
32-06	Sparks Street	Private Inlet pipe		✓	
32-07	Colonial Court	Watercourse Inlet Pipe (2)			
32-08	Sparks Street	Street Outlet Pipe	✓		✓
32-09	Woodford Avenue	State/Town Outlet Pipe	✓	✓	
32-10	Woodford Avenue	Watercourse Inlet Pipe (2)			
32-11	Woodford Avenue	Watercourse Outlet Pipe (2)			
34-01	Journey Road	Street Inlet FE			
34-02	Journey Road	Street Outlet Pipe/HW	✓		
35-01	Bohemia Street	Street Outlet Pipe	✓		
38-01	Milford Street	Street Outlet WW	✓	✓	
38-02	Milford Street Ext.	Street Outlet FE	✓	✓	
38-03	Locust Street	Street Outlet Pipe	✓	✓	
38-04	Locust Street	Street Outlet FE	✓	✓	
38-05	Woodford Avenue	Street Outlet FE	✓	✓	
38-06	Woodford Avenue	Street Inlet FE			
38-07	Woodford Avenue	Street Outlet Pipe	✓		
38-08	White Oak Avenue	Street Inlet HW			
38-09	Westwood Avenue	Street Outlet Pipe	✓		
38-10	Ledge Road	Converted to CB			
38-11	Ledge Road	Converted to CB			
38-12	Ledge Road	Street Outfall HW	✓		
38-13	Woodford Avenue	State/Town Outfall HW	✓		✓
38-14	Ledge Road	Street Outfall HW	✓		
38-15	Ledge Road	Street Inlet HW			
39-01	White Oak Avenue	Converted to CB	✓		
39-02	Westwood Avenue	Private Inlet Structure			

39-03	Linda Drive	Det. Pond Inlet Structure																	
39-04	Kristine Lane	Street Outlet FE	✓																
39-05	Kristine Lane	Street Outlet FE	✓																
39-06	Westwood Avenue	Converted to CB																	
39-07	Kristine Lane	Inlet Structure																	
39-08	Kristine Lane	Inlet Structure																	
40-01	Journey Road	Street Outlet FE	✓							✓									
40-02	Journey Road	Street Outlet FE	✓																
40-03	Journey Road	Inlet CB																	
40-04	Journey Road	Street Outlet FE	✓																
40-05	Journey Road	Street Outlet HW	✓																
40-06	Woodford Avenue	Street Outlet FE	✓						✓		7.45	459	0.23	51.1	326	0.00	0.00	< 0.100	< 50
40-07	Woodford Avenue	Street Inlet HW																	
40-08	Woodford Avenue	Street Outfall HW	✓																
42-01	Red Stone Hill	Street Outlet Pipe	✓			✓													
42-02	Red Stone Hill	Converted to CB				✓													
42-03	Red Stone Hill	Street Outlet HW	✓			✓													
42-04	Red Stone Hill	Street Outlet Pipe	✓			✓													
42-05	Norton Trail	Street Outlet Pipe (2)	✓																
43-01	Rosanne Lane	Street Outlet FE	✓																
43-02	Norton Park Road	Watercourse Outlet Pipe (2)																	
43-03	Norton Park Road	Watercourse Inlet Pipe (2)																	
43-04	Norton Park	Street Outlet Pipe	✓																
43-05	Norton Park	Street Outlet Pipe	✓																
43-06	Hemingway Street	Street Outlet FE	✓																
43-07	Hemingway Street	Street Outlet HW	✓																
43-08	Roseleah Avenue	Street Inlet FE																	
43-09	Hart Place	Street Inlet HW																	
43-10	Burnside Avenue	Street Inlet HW																	
45-01	White's Crossing	Street Outlet FE	✓																
45-02	Plainville High School	Street Outlet FE	✓																

45-03	Tomlinson Avenue	Watercourse Inlet Pipe (2)			✓	
45-04	Tomlinson Avenue	Watercourse Outlet Pipe (2)			✓	
45-05	Tomlinson Avenue	Street Outlet Pipe	✓	✓	✓	✓
45-06	Tomlinson Avenue	Watercourse Inlet HW			✓	
45-07	Tomlinson Avenue	Street Outlet WW	✓		✓	✓
45-08	Tomlinson Avenue	Watercourse Outlet HW			✓	
45-09	Arcadia Avenue	Street Outlet HW	✓		✓	
45-10	Arcadia Avenue	Street Inlet HW			✓	
45-11	Ledge Road	Street Outlet HW	✓			
45-12	Ledge Road	Street Outlet HW	✓			
45-13	Ledge Road	Street Inlet HW				
45-14	Ledge Road	Watercourse Outlet HW			✓	
45-15	Ledge Road	Watercourse Inlet HW			✓	
45-16	Ledge Road	Watercourse Outlet HW			✓	
45-17	Ledge Road	Watercourse Inlet HW			✓	
45-18	Ledge Road	Watercourse Outlet HW			✓	
45-19	Ledge Road	Watercourse Inlet HW			✓	
45-20	Sunset Avenue	Wetland Inlet Pipes			✓	
45-21	Sunset Avenue	State/Town Outfall HW	✓		✓	✓
49-01	Red Stone Hill	Street Outlet FE	✓			
49-02	Hollyberry Lane	Street Inlet FE				
49-03	Hollyberry Lane	Street Outlet FE	✓			
49-04	Red Stone Hill	Watercourse Outlet HW				✓
49-05	Red Stone Hill	Watercourse Outlet HW				
49-06	Red Stone Hill	Watercourse Inlet Pipe				
49-07	Hollyberry Lane	Street Outlet Pipe	✓			
49-08	Hollyberry Lane	Street Outlet Pipe	✓			
49-09	Hollyberry Lane	Street Outlet Pipe	✓			
49-10	Red Stone Hill	Watercourse Inlet HW				
49-11	Condale Lane	Street Outlet Pipe	✓			
49-12	Condale Lane	Street Outlet FE	✓			✓

49-13	Condale Lane	Street Outlet FE	✓				✓													
50-01	Norton Park	Watercourse Inlet Pipe (3)																		
50-02	Norton Park	Watercourse Outlet Pipe (3)																		
50-03	Norton Park	B&G/Park Outlet FE	✓			✓				✓										
50-04	Norton Park	State/Town Outfall HW	✓			✓				✓										
50-05	Norton Park	Pool/Park Outlet FE	✓			✓				✓										
51-01	Spring Street	Watercourse Inlet FE																		
51-02	Spring Street	Watercourse Outlet FE	✓																	
51-03	Spring Street	Street Outlet FE	✓																	
51-04	Martin Drive	Street Outlet FE	✓			✓														
51-05	Carol Drive	Street Outlet FE	✓			✓														
51-06	Shuttle Meadow Road	Street Outlet FE	✓																	
51-07	Shuttle Meadow Road	Watercourse Inlet Pipe																		
51-08	Shuttle Meadow Road	Watercourse Outlet Pipe				✓														
51-09	Shuttle Meadow Road	Watercourse Outlet Pipe (3)																		
51-10	Shuttle Meadow Road	Watercourse Inlet Pipe (3)																		
51-11	Shuttle Meadow Road	Street Outlet FE	✓			✓														
51-12	Canterbury Lane	Street Outlet HW	✓			✓														
51-13	Stillwell Drive	Watercourse Outlet Culvert(2)								✓										
51-14	Stillwell Drive	Watercourse Inlet Culvert (2)								✓										
51-15	Rosemont Drive	Street Outlet FE	✓			✓				✓										
51-16	Spring Street	Sr. Villages Outlet FE/Pipe	✓																	
51-17	Spring Street Rear	Watercourse Inlet Pipe																		
51-18	Spring Street Rear	Watercourse Outlet Pipe																		
51-19	Stillwell Drive Bridge	Street Outlet HW	✓			✓												✓		
51-20	Stillwell Drive Bridge	Street Outlet FE	✓			✓												✓		
52-01	Linsley Drive	Street Outlet Pipe	✓			✓				✓			7.14	422	0.21	62.0	0.00	0.00	Not Detected	62
52-02	Rosemont Drive	Street Outlet FE	✓			✓				✓										
52-03	Pickney Avenue	Street Outlet FE	✓			✓				✓								✓		

52-04	Pickney Avenue	Street Inlet FE				
52-05	Arcadia Avenue	Watercourse Outlet HW				
52-06	Lena Avenue	Watercourse/Street Outlet FE	✓		✓	
52-07	Lena Avenue	Watercourse Inlet HW			✓	
52-08	James Place	Street Outlet FE (2)	✓		✓	✓
52-09	Ledge Road	Watercourse Outlet HW			✓	
52-10	Ledge Road	Watercourse Inlet HW			✓	
52-11	Ledge Road	Watercourse Outlet Pipe			✓	
52-12	Ledge Road	Watercourse Inlet Pipe			✓	
52-13	Ledge Road	Watercourse Inlet Pipe			✓	
52-14	Ledge Road	Watercourse Outlet Pipe			✓	
52-15	Pickney Avenue	Street Inlet FE			✓	
52-16	Lena Avenue	Interconnection MH				
52-17	Pickney Avenue	Street Inlet FE				
52-18	Sunset Avenue	Street Outlet FE	✓			
52-19	Lena Avenue	Street Outlet Pipe	✓			
55-01	Red Stone Hill	Watercourse Inlet HW				
55-02	Red Stone Hill	Watercourse Outlet HW	✓			
56-01	Town Line Road	Watercourse Inlet Pipe (2)				
56-02	Town Line Road	Watercourse Outlet Pipe (2)				
56-03	Town Line Road	Street Outlet FE	✓			
57-01	Cianci Avenue	Street Outlet Pipe	✓	✓		
57-02	River Street	Street Outlet Pipe CNF	✓			
57-03	River street	Street Inlet Pipe CNF				✓
57-04	Shuttle Meadow Road	Street Outlet Pipe	✓	✓		
57-05	River Edge Court	Street Outlet Pipe	✓	✓		
57-06	Shuttle Meadow Road	Street Inlet Pipe - CNF				
57-07	Pavano Drive	Street Inlet Pipe				
58-01	James Place	Street Outlet FE (2)	✓		✓	
58-02	James Place	Street Inlet FE (2)			✓	
58-03	Ledge Road	Watercourse Outlet Pipe			✓	

