

Introduction

This Stormwater Management Plan has been prepared to comply with the Connecticut Department of Environmental Protection (CTDEP) *General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems* dated January 9, 2004. In the sections that follow, language from the General Permit is provided (italics), followed by the Best Management Practices (BMPs), as listed in the Part B registration. In addition to these BMPs, the Town is required to conduct annual storm water monitoring as specified in the General Permit.

Section 1. Development of Stormwater Management Plan

The Stormwater Management Plan (the Plan) shall address the Minimum Control Measures as indicated in this section. Those measures indicated as required within the Urbanized Area portion of the Regulated Small MS4 shall be implemented, at a minimum, within those areas. At the discretion of the permittee, the Minimum Control Measures required within the Urbanized Areas may also be applied to any MS4 outside of the Urbanized Area. Those measures indicated as required throughout the municipality shall be implemented for all areas of the municipality regardless of Urbanized Area.

(a) Minimum Control Measures

For each Minimum Control Measure, the permittee shall: define appropriate BMPs; designate a person(s) and job title responsible for each BMP; define a time line for implementation of each BMP; and define measurable goals for each BMP. The Minimum Control Measures in the Stormwater Management Plan include, but are not limited to those in the following sections.

Section 2. Public Education and Outreach on Stormwater Impacts

(A) Required throughout the municipality:

- (i) implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on waterbodies and the steps that the public can take to reduce pollutants in stormwater runoff.*

The following BMPs have been developed; refer to the pages that follow for details.

- Stormwater Educational Materials
- Education/Outreach for Commercial Activities
- Proper Disposal of Household Hazardous Waste

Details of BMPs	
Public Education	
Storm Water Educational Materials	
Responsible Party: First Selectwoman and Town Planner	
Start Date: 1/2007	End Date: Ongoing
Permits Years during which activities are scheduled:	
Year 1	Year 2
Year 3	Year 4
X	Year 5
X	
Name of Separate Implementing Entity: Town of Griswold - Town Planner	
BMP Description:	
<ul style="list-style-type: none"> • Post Link on web site. <p style="margin-left: 40px;">http://cfpub.epa.gov/npdes/stormwater/menuofbmeps/index.cfm</p> <ul style="list-style-type: none"> • Evaluate mailer provided in tax bills. 	
Has Goal Been Accomplished: BMP website link established in calendar 2007	
Work Performed	
Date: June 30, 2008	Responsible Party: Town Planner and Paul Burgess LLC
Description:	
Evaluation of possible mailer in tax bills (in August 2008) will be completed by June 30, 2008.	

Details of BMPs	
Public Education	
Education/Outreach for Commercial Activities	
Responsible Party: First Selectwoman and Town Planner	
Start Date: 1/2007	End Date: Ongoing
Permits Years during which activities are scheduled:	
Year 1	Year 2
Year 3	Year 4
X	Year 5
Name of Separate Implementing Entity: Town of Griswold	
BMP Description:	
<ul style="list-style-type: none"> • Post Link on web site. <p style="text-align: center;">http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&Button=detail&bmp=6</p> <ul style="list-style-type: none"> • Evaluate mailer to businesses. 	
Has Goal Been Accomplished: BMP link established.	
Work Performed	
Date: June 30, 2008	Responsible Party: Town Planner and Paul Burgess LLC
Description: Evaluate feasibility of Stormwater mailer to local businesses.	

Details of BMPs	
Public Education	
Proper Disposal of Household Hazardous Waste	
Responsible Party: First Selectman and Town Planner	
Start Date: 1/2007	End Date: Ongoing
Permits Years during which activities are scheduled:	
Year 1	Year 2
Year 3	Year 4
X	Year 5
Name of Separate Implementing Entity: Town of Griswold	
BMP Description:	
<ul style="list-style-type: none"> • Post link on town web site to USEPA website materials <p style="margin-left: 40px;">http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&Button=detail&bmp=3</p> <ul style="list-style-type: none"> • Provide information on website regarding hazardous waste collection locations and dates. • Evaluate feasibility of mailers to taxpayers. 	
Has Goal Been Accomplished: BMP link established.	
Work Performed	
Date: June 30, 2008	Responsible Party: Town Planner
Description:	
Provide information of website for location and dates of hazardous waste collections.	
Evaluate feasibility of mailers relating to hazardous waste collections in tax bills for fall 2008 bills	

Section 3. Public Involvement/Participation

(A) *Required throughout the municipality:*

- (i) *comply with state and local public notice and Freedom of Information requirements when implementing a public involvement/participation program. Where notice requirements are inconsistent, the notice provisions providing for the most notice and opportunity for public comment shall be followed.*
- (ii) *develop a public involvement/participation program that includes the public in developing, implementing, and reviewing your stormwater management plan.*

The following BMPs have been developed; refer to the pages that follow for details.

- Public Participation Program
- Public Notice and FOI Requirements
- Stormwater Stenciling- Borough
- Stream Cleanup

Details of BMPs						
Public Participation						
Public Participation Program						
Responsible Party: First Selectwoman and IWWC Commission						
Start Date: 1/2007			End Date: Ongoing			
Permits Years during which activities are scheduled:						
Year 1	Year 2	Year 3	Year 4	X	Year 5	X
Name of Separate Implementing Entity: Conservation Commission						
BMP Description:						
<ul style="list-style-type: none"> • Assign Inland Wetland and Watercourses Conservation Commission responsibility for Public Participation. • Post Stormwater Management Plan on Griswold web site for public review and comment. 						
Has Goal Been Accomplished: Yes; ongoing Annual Reports to be posted on website						
Work Performed						
Date: Calendar 2008		Responsible Party: Griswold IWWC Commission/ Town Planner				
Description:						
As lead agency, IWGCC would continue to review draft Annual Report in December for the calendar year and incremental progress on the website.						

Details of BMPs	
Public Participation	
Public Notice and FOI Requirements	
Responsible Party: First Selectwoman and IWWC Commission	
Start Date: 1/2007	End Date: Ongoing
Permits Years during which activities are scheduled:	
Year 1	Year 2
Year 3	Year 4
X	X
Name of Separate Implementing Entity: Town of Griswold Inland Wetlands and Watercourses Conservation Commission	
BMP Description:	
<ul style="list-style-type: none"> • Post Stormwater Management Plan on Griswold web site for public review and comment. • Annual Stormwater Reports (see General Permit for report requirements) will be made available for public review 30 days in advance of submission to CTDEP. Availability will be posted on town web site and at Town Hall. Copies will be available at Town Hall (Planning Department). • FOI requirements will be complied with. 	
Has Goal Been Accomplished: Yes. Plan and Annual Report Changes placed on website. Ongoing annual updates to be treated in same fashion.	
Work Performed	
Date: Ongoing	Responsible Party: Griswold IWWC Commission
Description: Plan and Annual Report Updates to the Plan placed on website each year and made available for public review 30 days in advance of submission to CTDEP.	

Details of BMPs	
Public Participation	
Stormwater Stenciling- Borough	
Responsible Party: First Selectwoman and Highway Department	
Start Date: 6/2007	End Date: 12/2008
Permits Years during which activities are scheduled:	
Year 1	Year 2
Year 3	Year 4
X	Year 5
X	
Name of Separate Implementing Entity: Town of Griswold Highway Department	
BMP Description:	
<ul style="list-style-type: none"> • Highway Department to stencil no discharge notices on catch basins in Borough of Jewett City. 	
Has Goal Been Accomplished: No, Expected to be done in calendar 2008	
Work Performed	
Date:	Responsible Party: Highway Department Supervisor
Description:	

Details of BMPs	
Public Participation	
Stream Cleanup	
Responsible Party: First Selectwoman and IWWC Commission	
Start Date: 4/2006	End Date: Ongoing
Permits Years during which activities are scheduled:	
Year 1	Year 2
Year 3	X
Year 4	X
Year 5	X
Name of Separate Implementing Entity: Volunteers	
BMP Description:	
<ul style="list-style-type: none"> • Annual cleaning of accessible trash from Ashland Pond and Pachaug River in Borough. 	
Has Goal Been Accomplished: 2007 – No	
Work Performed	
Date: Calendar 2008	Responsible Party: Griswold IWWC Commission/ Town Planner
Description: During calendar 2008, we hope to identify a public service group that would be willing to clean up accessible trash on Ashland Pond and Pachaug River that could be reached from boats on the navigable areas of these water bodies. Private property access and liability are an issue from the land side.	

Section 4. Illicit Discharge Detection and Elimination

(A) Required throughout the municipality:

- (i) implement an ordinance or other regulatory mechanism to effectively prohibit non-stormwater discharges, except as provided in Section 3(a)(2)- General Permit-, into the MS4, as well as sanctions to ensure compliance, to the extent allowable under State or local law;*
- (ii) inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste; and*
- (iii) by the end of the third year of the general permit, expand the map required by subsection (B)(i) below to identify on such map all outfalls of 15" or greater where such outfalls are located anywhere within each municipality;*

(B) Required within the Urbanized Area:

- (i) by the end of the second year of the general permit, develop a map or series of maps at a minimum scale of 1"=2000' and maximum scale of 1"=100' showing all stormwater discharges from a pipe or conduit with a diameter of 15" or greater (or equivalent cross-sectional area) owned or operated by the municipality. For each discharge the following information shall be included:*
 - a. Type, material, and size of conveyance, outfall or channelized flow (e.g. 24" concrete pipe);*
 - b. The name and Surface Water Quality Classification of the immediate surface waterbody or wetland to which the stormwater runoff discharges;*
 - c. If the outfall does not discharge directly to a named waterbody, the name of the nearest named waterbody to which the outfall eventually discharges;*
 - d. The name of the watershed in which the discharge is located.*
- (ii) By the end of the fourth year of the general permit, expand the map required by subsection (B)(i) above to identify on the map all outfalls of 12" or greater that are located within an urbanized area;*
- (iii) develop, implement and enforce a program to detect and eliminate existing illicit discharges, as defined in 40CFR 122.26(b)(2), into the MS4; and*
- (iv) develop and implement a plan to detect and address future non-stormwater discharges, including illegal dumping, to the MS4.*

The following BMPs have been developed; refer to the pages that follow for details.

- Map Outfalls in Borough(urbanized area)
- Illicit Discharge Elimination Program
- Map Outfalls Townwide

Details of BMPs	
Illicit Discharge Detection & Elimination	
Map Outfalls in Borough (Urbanized Area)	
Responsible Party: First Selectwoman and Town Planner	
Start Date: 5/2006	End Date: 7/2006
Permits Years during which activities are scheduled:	
Year 1	Year 2
Year 3	X Year 4
Year 5	
Name of Separate Implementing Entity: GEI Consultants, Inc.	
BMP Description:	
<ul style="list-style-type: none"> • Inspect and map all storm water pipe discharges (12 inches diameter and greater) in Borough (urbanized area). 	
Has Goal Been Accomplished: 2006 – Yes	
Work Performed	
Date: May 2006	Responsible Party: First Selectwoman and Town Planner
Description:	
<ul style="list-style-type: none"> • Work was completed by GEI in May 2006 and a map and spreadsheet produced. Information on pipe material and size was obtained and recorded. 	

Details of BMPs	
Illicit Discharge Detection & Elimination	
Illicit Discharge Elimination Program	
Responsible Party: First Selectwoman and Town Planner	
Start Date: 5/2006	End Date: Ongoing
Permits Years during which activities are scheduled:	
Year 1	Year 2
Year 3	X
Year 4	X
Year 5	X
Name of Separate Implementing Entity: GEI Consultants, Inc.	
BMP Description:	
<ul style="list-style-type: none"> • All storm water pipes in Borough (urbanized area) to be inspected dry (no flow) conditions to identify illicit discharges. • Develop ordinance to eliminate illicit discharges or to prevent their future initiation. 	
Has Goal Been Accomplished: 2006 pipes located; 2007 draft illicit discharge ordinance written.	
Work Performed	
Date: See below	Responsible Party: First Selectman and Town Planner
BMP Description:	
<ul style="list-style-type: none"> • All storm drain outfall were inspected and no illicit discharges were observed. Work was completed by GEI in May 2006. <p>GEI completed draft illicit discharge ordinance in July 2007</p> <p>Illicit Discharge Ordinance to be reviewed and possibly implemented by Board of Selectmen in calendar 2008</p>	

Details of BMPs	
Illicit Discharge Detection & Elimination	
Map Outfalls Townwide	
Responsible Party: First Selectwoman and Town Planner	
Start Date: 12/2007	End Date: 12/2008
Permits Years during which activities are scheduled:	
Year 1	Year 2
Year 3	Year 4
X	Year 5
X	
Name of Separate Implementing Entity:	
BMP Description:	
<ul style="list-style-type: none"> • Inspect and map all remaining storm water pipe (15 inches or greater) discharges in Town of Griswold by end of 2008X 	
Has Goal Been Accomplished: No; funds for this implementation expected FY 2007/2008.	
Work Performed	
Date: Calendar 2008	Responsible Party: First Selectman, Town Planner, Paul Burgess LLC
Description:	
Contract activated in mid December 2007, hiring Paul Burgess LLC to inspect and map the stormwater discharges 15 inches or greater in the Town of Griswold.	

Section 5. Construction Site Stormwater Runoff Control

(A) *Required throughout the municipality:*

- (i) *develop, implement, and enforce a program, or modify an existing program, to reduce pollutants in any stormwater runoff to the MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of stormwater discharges from construction activity disturbing less than one acre shall be included in the program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more. The program shall include, but not be limited to, the development and implementation of an ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions for non-compliance, to the extent allowable under state or local law;*
 - a. *procedures for notifying construction site developers and operators of the requirements for registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities;*
 - b. *requirements for construction site operators to implement appropriate erosion and sediment control best management practices in accordance with the Guidelines;*
 - c. *requirements for construction site operators to control waste at the site such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste that may cause adverse impacts to water quality;*
 - d. *procedures for site plan review which incorporate consideration of potential water quality impacts;*
 - e. *procedures for receipt and consideration of information submitted by the public; and*
 - f. *procedures for site inspection and enforcement of control measures.*

Section 6. Post-Construction Stormwater Management in New Development and Redevelopment

(A) *Required throughout the municipality:*

- (i) *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 discharge into the MS4 or directly to waters of the State. This program shall ensure that controls are implemented to require appropriate infiltration practices, reduction of impervious surface, creation of or conversion to sheet flow, measures and/or structures to reduce sediment discharge and any other innovative measures that will prevent or minimize water quality impacts;*
- (ii) *develop and implement strategies which include a combination of structural and/or non-structural best management practices (BMPs) appropriate for your municipality;*
- (iii) *use an ordinance or other regulatory mechanism to address the elements of subsection (i) above regarding post-construction runoff from new development and redevelopment projects to the extent allowable under State or local law; and*
- (iv) *ensure adequate long- term operation and maintenance of BMPs.*

The following BMPs have been developed; refer to the pages that follow for details.

- Land Use Regulations and Procedures

Details of BMPs	
Construction Site Stormwater Runoff Control	
Land Use Regulations and Procedures	
Responsible Party: First Selectwoman and Town Planner	
Start Date: 1/2007	End Date: Ongoing
Permits Years during which activities are scheduled:	
Year 1	Year 2
Year 3	Year 4
X	Year 5
X	
Name of Separate Implementing Entity: Planning and Zoning Commission and Town Planner	
BMP Description:	
<ul style="list-style-type: none"> • Modify Borough Zoning Regulations to add similar Sediment and Erosion Control Requirements as Town Zoning Regulations. • Develop a procedure within Planning and Community Development Department to notify developers of CTDEP General Permit for Discharge of Stormwater and Dewatering Wastewater associated with Construction Activities. • Develop requirements for Developers to control waste at constructions sites. • Develop a procedure within Planning and Community Development Department for site inspection and enforcement of sediment and erosion control measures. • Town Planner, Wetlands Staff, Planning and Zoning Chairman and Inland Wetlands Commission Chairman should meet and discuss best method to implement these requirements 	
Has Goal Been Accomplished: Partially Accomplished	
Work Performed	
Date: Ongoing	Responsible Party: First Selectman and Town Planner
Description:	
<ul style="list-style-type: none"> o Partial draft zoning regulations for E and S upgrade language was created. Revisions and formal public hearings to adopt these expected in calendar 2008 o ZEO/WEO inspects E and S controls as has been common practice. o Informal procedures implemented to make developers aware of General Permit requirements were made including conditions on subdivision or special permit approvals and passing form/guidance manual for the General Permit to developers/builders of new town road or larger projects. Revisions to regulations and formal public hearings to adopt these are expected in calendar 2008. o Requirements for Developers to control waste as construction sites and meeting to determine best methods to implement 	

Section 7. Pollution Prevention/Good Housekeeping for Municipal Operations

(A) *Required throughout the municipality:*

- (i) *develop and implement an operation and maintenance program that includes a training component for municipal employees and contractors and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations;*
- (ii) *using training materials that are available from the EPA, the State or other organizations, this program shall include employee training to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance;*
- (iii) *develop and implement a program to sweep all streets at least once a year as soon as possible after snowmelt;*
- (iv) *develop and implement a program to evaluate and, if necessary, clean catch basins and other stormwater structures that accumulate sediment at least once a year, including a provision to identify and prioritize those structures that may require cleaning more than once a year; and*
- (v) *develop and implement a program to evaluate and, if necessary, prioritize for repairing, retrofitting or upgrading the conveyances, structures and outfalls of the MS4.*

(B) *Required within the Urbanized Area:*

- (i) *develop and implement a program to evaluate and prioritize those streets that may require sweeping more than once a year.*

The following BMPs have been developed; refer to the pages that follow for details.

- Pollution Prevention - Municipal Operations
- Street Sweeping and Catch basin Cleaning

Details of BMPs										
Pollution Prevention – Municipal Operations										
Training										
Responsible Party: First Selectman and Highway Supervisor										
Start Date: 1/2007						End Date: Ongoing				
Permits Years during which activities are scheduled:										
	Year 1		Year 2		Year 3		Year 4	X	Year 5	X
Name of Separate Implementing Entity: Town of Griswold										
BMP Description: <ul style="list-style-type: none"> • Develop a training program for municipal employees (Highway Department). http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=6 • It is recommended that the Highway Department review their various activities and develop topics for training. 										
Has Goal Been Accomplished: No										
Work Performed										
Date: 2008			Responsible Party: First Selectman, Highway Supervisor, Paul Burgess LLC							
Description: Paul Burgess LLC/Town Planner to develop a custom training program/presentations for use by Griswold Highway Department in training or refresher training its employees in best management practices they could employ in highway maintenance.										

Details of BMPs	
Pollution Prevention – Municipal Operations	
Street Sweeping and Catch Basin Cleaning	
Responsible Party: First Selectman and Highway Supervisor	
Start Date: 1/2004	End Date: Ongoing
Permits Years during which activities are scheduled:	
Year 1	X Year 2 X Year 3 X Year 4 X Year 5 X
Name of Separate Implementing Entity: Town of Griswold	
BMP Description:	
<ul style="list-style-type: none"> • Sweep all in streets in town once per year as soon as possible after snow melt. • Determine if streets in the urbanized area require sweeping more than once per year. • Develop and implement a program to evaluate, and if necessary, clean catch basins at least once per year. 	
Has Goal Been Accomplished: Yes, streets swept and catch-basins cleaned at least once per year. Streets in urbanized area (Jewett City) do not appear to require sweeping more than once per year.	
Work Performed	
Date: Ongoing	Responsible Party: First Selectman and Highway Supervisor
BMP Description:	
<ul style="list-style-type: none"> • Generally all streets in the Borough and others streets in town with curbing are swept once per year in the spring. Streets are monitored and they have not required sweeping more than once per year. In 2007, GEI Consultants investigated whether streets should be swept more than once and concluded by attached letter that there was no need for greater frequency street sweeping. • Catch basins townwide and in the Borough are cleaned once per year 	