Municipality/Organization:	Town of Townsend	
EPA NPDES Permit Number:	MAR041228	
MassDEP Transmittal Number:	W-036204	
Annual Report Number Year 9 & Reporting Period:	April 1, 2011 – March 31, 2012	

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2012)

Part I. General Information

Contact Person	: Karen Chapman	Title: Co-Land Use Coordinator				
Telephone #:	(978)597-1723	Email: kchapman@townsend.ma.us				
Mailing Address: 272 Main Street, Townsend, MA 01469						

Certification:

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

Signature: Karen Chapman

Printed Name: Karen Chapman

Title: Co-Land Use Coordinator

Date: April 30, 2012

Part II. Self-Assessment

The Town of Townsend has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, except for the following provisions:

Part II.B.3(a) The Town has not yet developed a complete storm sewer map. There are several subdivision maps which contain partial information, but there is not one map containing the entire Town. A portion of Route 119 bisects the entire Town and is a significant portion of the MS4 Regulated Area. The State Highway Department, District III office has provided GIS mapping information regarding outfalls along Route 119. A GPS unit is being purchased and will be used to complete the mapping. Lack of funding and personnel hours have limited our ability to complete this project.

Part II.B.3(c) The Town has successfully passed an Illicit Discharges to the Municipal Storm Drain System Bylaw, but has yet to adopt a plan to detect and address non-stormwater discharges into the system. The adopted Bylaw does contain some elements of the required plan within it.

Part II.C Although protection of our drinking water supply is addressed under a local Aquifer Protection District Bylaw and Groundwater Protection District Bylaw, a significant portion of the MS4 Regulated Area contains Route 119 which is under State control.

Part III. Summary of Minimum Control Measures 1. Public Education and Outreach

BMP Description Responsible Progress on Goal(s) -BMP **Measurable Goal(s)** Planned Activities -ID# Dept./Person Permit Year 9 Name (Reliance on non-municipal partners indicated, if any) Distribute/post nonpoint Land Use Completed year 1 1a Source Pollution Coordinator posters Revised Stormwater message on Land Use New messages will be developed to 1bCompleted. be broadcast on a continuous Local cable access Coordinator channel schedule. Revised Tax bills are no longer distributed 1cObtain/Distribute Auto Land Use Distribute brochures in No progress tax bill annually from Town Hall so brochures will be Shop brochures Coordinator Revised mailed directly to the appropriate businesses. Place all brochures and information Add Stormwater Land Use Update Stormwater New town website has been developed 1d and will be available to the public by information to Town's Coordinator info on website to on new website. Website ensure it is current June 30, 2012. Revised Land Use/Water 1e Distribute brochures in Insert in biannual Brochure on lawn watering and water Insert brochure on an annual basis water bills Department, water bill conservation inserted in to water bills. and update if applicable. Revised Host Lawn Care Hold Seminar Completed. Water department Water conservation bylaw will be 1f Conservation presented at Fall 2012 Special Town Seminar Commission developed water conservation bylaw. Revised Meeting. Have bylaw passed at 1g Develop dog waste Land Use Completed. bylaw Town Meeting Revised

1h	Distribute Stormwater	Conservation	Distribute brochure in	Completed.	Will post information on town
	Pollution Prevention	Commission	property tax bills		website rather than future direct
	brochure to residents				mailing which is very costly.
Revised	[[

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners	Planned Activities –
				indicated, if any)	
2a	Advisory Committee	Land Use Coordinator	Formed year one.	No progress. Land Use Coordinator works with Highway Dept and	Consider developing Stormwater Implementation Committee with
Revised				Conservation Commission on issues.	oversight of town wide stormwater issues.
2b	Adopt-a-Highway Program	Land Use Coordinator, Recycling Committee, Highway Dept	Target at least one street per year	Recycling Committee held a street clean-up on 4/30/2011 in association with Earth Day. Friends of Willard Brook held street clean ups in May and November, 2011 on the streets around	Continue on an annual basis
Revised				Pearl Hill State Park and Willard Brook State Park. Highway Dept has "Operation Neat Streets" where several organizations clean up specific streets every year.	
2c	Hazardous Waste Day Collection	Fire Department	Hold twice per year	A new regional hazardous waste collection site has being constructed at	Continue participation in regional facility.
Revised		Board of Health		Devens. It opened in 2011 with two days a week open for participating communities, of which Townsend is one.	
2d	Continue Waste Oil Collection & Recycling	Highway Department	Hold first Saturday Monthly	Held monthly. Highly successful. Town-wide participation	Continue. Monthly participation continued.
Revised					
2e	Volunteer annual stream clean-up day	Land Use Coordinator, Conservation Commission	One clean-up day every spring	Friends of Willard Brook have initiated stream clean-up days with volunteers.	Continue effort to establish Town organization despite liability issues.
Revised					

2f	Hold Earth Day	Recycling	Hold Earth Day	Completed. Earth Day Celebration	Continue annual celebration. 2012
	Celebration	Committee,	Celebration	held on April 30, 2011. Theme was	celebration scheduled for April 28,
		Recreation		"Going Organic". Activities included	2012 with a theme of "New England
		Commission		outdoor/indoor plant swap, recycling	Animals".
				booth, Organic Lawn Care presentation,	
				and booths representing the Hannaford	
				Supermarkets, Townsend Recycling	
				Committee, Friends of Willard Brook,	
Revised				Townsend Conservation Land Trust,	
				North Central Regional Solid Waste	
				Cooperative and many others.	
				Newspaper articles regarding organic	
				practices were published in conjunction	
				with Earth Day.	

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities –
3a Revised	Map Outfalls and Receiving Waters	Land Use Coordinator	Map 25% of outfalls that drain urbanized areas each year	Some progress.	Continue project. Use GPS unit to locate and map remaining outfalls. Contact local engineering firms for survey locations of stormwater structures to assist in mapping
3b	Review existing bylaws and regulations	Land Use Coordinator, Bylaw Review Committee	Determine if existing bylaws & regs fulfill EPA requirements	Complete.	
Revised					
3c	Develop Illicit Discharge Detection & elimination plan	Land use Coordinator, Highway Department	Make recommendations for inclusion into proposed plan	No progress, personnel issues	Investigate cost of consultant completing plan or find other towns with similar plans.
Revised					
3d	Develop/Modify General illicit Discharge bylaw	Land Use Coordinator, Highway Department	Propose recommendation for modifying/developing bylaw	Complete.	
Revised					
Зе	Present Bylaw for Town Meeting Action	Land Use Coordinator, Highway Department	Make Presentation for Town Meeting Action	Complete.	
Revised					
3a. A	dditions				

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities –
4a Revised	Review Existing Site Inspection Practices	Land Use Coordinator, Conservation Commission, Building Dept	Review current practices and change if inadequate or include in new bylaw	New state stormwater regulations within the Wetlands Protection Act afford more oversight to stormwater controls than previously.	Finalize draft inspection forms as part of Stormwater Regulations under the Planning Board.
Revised					
4b	Develop/Modify Site Inspection Program	Land Use Coordinator, Conservation Commission, Building Dept	Make recommendations for modifying existing program	Stormwater Rules & regulations which contain a section on inspections is in final draft form and is being reviewed by Town Counsel. Also contains inspection forms for municipality and	Have Planning Board hold hearing to incorporate stormwater rules & regulations into the planning board regulations.
Revised				permittee.	
4c	Review Existing Bylaws and regulations	Land Use Coordinator	Determine if existing bylaws and regs fulfill EPA requirements	Completed in 2005.	
Revised					
4d	Develop/Modify Bylaw for Construction Site Runoff	Land Use Coordinator, Stormwater Bylaw Committee	Propose recommendations for modifying/developing bylaw	Completed in 2007.	
Revised		Commutee			
4e	Present Bylaw for Town Meeting Action	Land Use Coordinator, Stormwater Bylaw Committee	Make Presentation for Town Meeting Action	Completed in 2007.	
Revised					

4a. <i>A</i>	4a. Additions						

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities –
5a	Review Existing Site Inspection Practices	Highway Department	Determine if existing practices fulfill EPA requirements	complete	
Revised					
5b	Develop/modify inspection & Maintenance Practices	Highway Department	Make recommendations for modifying existing practices	Stormwater Rules & regulations to support the Stormwater Bylaw contain a section on inspections and is in final draft form and is being reviewed by	Have Planning Board hold hearing to incorporate stormwater rules & regulations into the planning board regulations. Distribute new
Revised				Town Counsel. Also contains inspection forms for municipality and permittee.	inspection forms to Building, Highway and Planning
5c	Review Existing Bylaws and Regulations	Land Use Coordinator	Determine if existing bylaws and regs fulfill EPA requirements	Planning Board rules & regulations revisions in draft form to prevent conflict with new Stormwater Bylaws	Have Planning Board hold hearing to incorporate stormwater rules & regulations into the planning board
Revised				and comply with EPA requirements.	regulations
5d	Develop/modify Bylaws for Post Construction Site Runoff	Land Use Coordinator	Propose recommendations for modifying/developing bylaw	Completed in 2007	
Revised					
5e Revised	Present Bylaw for Town Meeting Action	Land Use Coordinator	Make presentations for Town Meeting Action	Completed in 2007.	

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities –
6a Revised	Street Sweeping Program	Highway Department	Sweep all streets once per year	Completed	Continue Annually
Keviseu					
6b	Catch Basin Cleaning Program	Highway Department	Clean catch basins once very two years	Cleaned annually. 78 basins cleaned for this reporting period.	Continue annually as budget allows. Investigate purchasing new clamshell
Revised					unit as current equipment is over 30 years old.
бс	Perform site visits to examine existing practices	Land Use Coordinator	Target all applicable municipal facilities	Complete.	Monitor for any changes
Revised				-	
6d	Train municipal employees at each town facility	Land Use Coordinator	Target all applicable municipal facilities	Complete	
Revised				-	
бе	Perform follow-ups to ensure required practices are met	Land Use Coordinator	Target all municipal facilities	Ongoing	
Revised					
Revised					

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<i f applicable>>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities –
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

During Permit Year 9, the Town is still struggling with financial shortfalls and has not yet completed mapping the outfalls in the entire Town. Most of the Regulated Area falls within the States Highway Department control of Route 119 and a map of these outfalls has been obtained from the State Highway Department. Information was also obtained from the Building Department, Highway Department, Conservation Commission, Friends of Willard Brook, Nashua River Watershed Association, Townsend Recycling Committee, and the Devens Regional Household Hazardous Products Collection Center.

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2011 through March 31, 2012)

Programmatic

	(Preferred Units) Response
Stormwater management position created/staffed	(y/n)	no
Annual program budget/expenditures **	(\$)	0.00
Total program expenditures since beginning of permit coverage	(\$)	0.00
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		General Fund
		from new
		permit fees.
		None
		collected as of
		this report.

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	80-100%
Stormwater management committee established	(y/n)	yes
Stream teams established or supported	(# or y/n)	yes
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	yes
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
days sponsored **	(#)	20 HHW
		12 Waste Oil
 community participation ** 	(# or %)	20 res. HHW

 material collected ** 				(tons or gal)	1.98 tons HHW
					709 gal waste
					oil
School curricula implemented				(y/n)	
Legal/Regulatory					
	In Place	Reviewing		Draft	
	Prior to	Existing		in	
	Phase II	Authorities	Drafte	d Review	Adopted
Regulatory Mechanism Status (indicate with "X")					
 Illicit Discharge Detection & Elimination 					X
 Erosion & Sediment Control 					X
 Post-Development Stormwater Management 					X
Accompanying Regulation Status (indicate with "X")					·
 Illicit Discharge Detection & Elimination 				Х	
 Erosion & Sediment Control 				X	
 Post-Development Stormwater Management 				X	

Mapping and Illicit Discharges

	(Preferred Uni	its) Response
Outfall mapping complete	(%)	25
Estimated or actual number of outfalls	(#)	35
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	25
Mapping method(s)		
 Paper/Mylar 	(%)	75
 CADD 	(%)	
• GIS	(%)	25
Outfalls inspected/screened **	(# or %)	2
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	20
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	0

Illicit connections removed **	(#); and	
	(est. gpd)	
Illicit connections removed (Since beginning of permit coverage)	(#); and	
	(est. gpd)	
% of population on sewer	(%)	0
% of population on septic systems	(%)	100

Construction

	(Preferred Units	s) Response
Number of construction starts (>1-acre) **	(#)	0
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	
Site inspections completed **	(# or %)	0
Tickets/Stop work orders issued **	(# or %)	0
Fines collected **	(# and \$)	0
Complaints/concerns received from public **	(#)	0

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-	(%)	
construction stormwater control		
Site inspections (for proper BMP installation & operation) completed **	(# or %)	
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Y
Low-impact development (LID) practices permitted and encouraged	(y/n)	Y

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	
Qty of structures cleaned **	(#)	78
Qty. of storm drain cleaned **	(%, LF or	
	mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	~2 tons
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	compost

Basin Cleaning Costs		
Annual budget/expenditure (labor & equipment)**	(\$)	\$4,000
Hourly or per basin contract rate **	(\$/hr or \$ per basin)	
 Disposal cost** 	(\$)	
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1 owned
• Vacuum truck(s) owned/leased	(#)	
Vacuum trucks specified in contracts	(y/n)	
 % Structures cleaned with clam shells ** 	(%)	100
 % Structures cleaned with vactor ** 	(%)	
	(Preferred Units	s) Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	~690 yds
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	compost
Annual Sweeping Costs		
 Annual budget/expenditure (labor & equipment)** 	(\$)	\$22,000
Hourly or lane mile contract rate **	(\$/hr. or	
	ln mi.)	
Disposal cost**	(\$)	
Sweeping Equipment		
Rotary brush street sweepers owned/leased	(#)	1 owned
Vacuum street sweepers owned/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	
 % Roads swept with rotary brush sweepers ** 	%	100
 % Roads swept with vacuum sweepers ** 	%	

Reduction (since beginning of permit coverage) in application on public land of:		
("N/A" = never used; "100%" = elimination)		
 Fertilizers 	(lbs. or %)	
 Herbicides 	(lbs. or %)	

Pesticides	(lbs. or %)	
Integrated Pest Management (IPM) Practices Implemented	(y/n)	у

	(Preferred Units) Response
Average Ratio of Anti-/De-Icing products used **	% NaCl	25
	% CaCl ₂	0
(also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% MgCl ₂	0
	% CMA	0
	% Kac	0
	% KCl	0
	% Sand	75
Pre-wetting techniques utilized **	(y/n or %)	no
Manual control spreaders used **	(y/n or %)	yes
Zero-velocity spreaders used **	(y/n or %)	no
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi.	-12%
	or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi.	-1%
	or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
Storage shed(s) in design or under construction	(y/n or #)	
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	yes

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	