Municipality/Organization: Town of Townsend

EPA NPDES Permit Number: MAR041228

MassDEP Transmittal Number: W-036204

Annual Report Number Year 11

& Reporting Period: April 1, 2013 – March 31, 2014

NPDES PII Small MS4 General Permit Annual Report

(Due: May 1, 2014)

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, 2014

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 stormwater 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 contractor has been hired by the Highway Department to develop a Pavement Management Program and mapping of the stormwater structures is included. We hope to have this completed in 2014.

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. A draft plan is in development for review by the Planning Board and Highway Department.

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 ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities –
1a	Distribute/post nonpoint Source Pollution posters	Land Use Coordinator	Completed year 1		
Revised					
1b	Stormwater message on Local cable access channel	Land Use Coordinator	Completed.		New messages will be developed to be broadcast on a continuous schedule.
Revised					
1c	Obtain/Distribute Auto Shop brochures	Land Use Coordinator	Distribute brochures in tax bill annually	A new auto business brochure has been developed that specifically addresses	The new brochures will be mailed directly to the appropriate businesses.
Revised			Mail new brochures to applicable businesses	Auto service businesses. This is on the town's website.	
1d	Add Stormwater information to Town's Website	Land Use Coordinator	Update Stormwater info on website to ensure it is current	Stormwater info added to website on pages of Planning Board, Conservation Commission and Land Use Department.	New information will be added as it is developed.
Revised				Commission and Danie Coe Department	
1e	Distribute brochures in water bills	Land Use/Water Department,	Insert in biannual water bill	Brochure on lawn watering and water conservation inserted in to water bills.	Insert brochure on an annual basis and update if applicable.
Revised					
1f	Host Lawn Care Seminar	Conservation Commission	Hold Seminar	Completed.	
Revised					
1g	Develop dog waste bylaw	Land Use	Have bylaw passed at Town Meeting	Completed. Pet waste brochure was developed and	
Revised			Distribute pet waste brochure	put on the website. Also available to dog owners when securing their licenses from the Town Clerk.	

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 to every residence, which is
Revised					very costly. Will also have available
					at the Library and Town Hall.

2. Public Involvement and Participation

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities –
2a	Advisory Committee	Land Use Coordinator	Formed year one.	No progress. Land Use Coordinator works with Highway Dept, Planning	Consider developing Stormwater Implementation Committee with
Revised				Board and 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 4/27/2013 in association with Earth Day. Friends of Willard Brook held street clean ups in May and November 2013 on the streets around	Continue on an annual basis and try to grow participation throughout the town utilizing several organizations in town such as Boy and Girl Scouts, Couples Club, Gardening Club, etc.
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 and this is growing.	
2c	Hazardous Waste Day Collection	Fire Department	Hold twice per year	The Devens regional household hazardous waste collection site is open	Continue participation in regional facility.
Revised		Board of Health	Hazardous Waste Center is open from March thru December	March-December twice a month for all residents.	
2d	Continue Waste Oil Collection & Recycling	Highway Department	Hold first Saturday Monthly	Held bi-monthly. Highly successful. Town-wide participation	Continue bi-monthly participation.
Revised	······································		Changed to bi-monthly		
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. Project to clean up portions of the Squannacook River is scheduled for
Revised					2014.

2f	Hold Earth Day	Recycling	Hold Earth Day	Completed. Earth Day Celebration	Continue annual celebration. 2014
	Celebration	Committee,	Celebration	held on April 27, 2013. Theme was	celebration scheduled for April 26,
		Recreation		"Bats, Bees, Bugs, Birds, Butterflies".	2014 with a theme of "Jump and
		Commission		Activities included outdoor/indoor	Slither: Frogs, Snakes & Turtles".
				plant swap, electronics recycling,	
				Organic Lawn Care presentation, and	
				booths representing the Hannaford	
				Supermarkets, Townsend Recycling	
Revised				Committee, Friends of Willard Brook,	
				Townsend Conservation Land Trust,	
				Townsend Conservation Commission,	
				Townsend Energy Committee, North	
				Central Regional Solid Waste	
				Cooperative and many others.	

3. Illicit Discharge Detection and Elimination

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (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	None	Highway Department is securing a contractor to develop a Pavement Management Plan. This process will involve locating and mapping the stormwater structure locations throughout town.
3b Revised	Review existing bylaws and regulations	Land Use Coordinator, Bylaw Review Committee	Determine if existing bylaws & regs fulfill EPA requirements	Complete.	unoughout town.
3c Revised	Develop Illicit Discharge Detection & elimination plan	Land use Coordinator, Highway Department	Make recommendations for inclusion into proposed plan	Plan is in draft form.	Have plan reviewed and approved by Planning Board and Highway Department.
3d Revised	Develop/Modify General Illicit Discharge bylaw	Land Use Coordinator, Highway Department	Propose recommendation for modifying/developing bylaw	Complete.	Review new EPA Permit with our Bylaw once it is released to see if changes need to be made based on the new permit requirements.
3e	Present Bylaw for Town Meeting Action	Land Use Coordinator, Highway Department	Make Presentation for Town Meeting Action	Complete.	
	dditions				

4. Construction Site Stormwater Runoff Control

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (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	Final draft Stormwater regulations have been completed and presented to the Planning Board for approval. These include inspection forms and instructions.	Planning Board to have public hearings to adopt the Stormwater Regulations which include new inspection forms.
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 has been approved by the Planning Board. Also contains inspection forms for municipality and	Planning Board to hold hearing to incorporate stormwater rules & regulations into the planning board regulations after Town Counsel review.
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.	Review new EPA Permit with our Bylaw to see if changes need to be made based on the new permit requirements.
Revised					
4e	Present Bylaw for Town Meeting Action	Land Use Coordinator, Stormwater Bylaw Committee	Make Presentation for Town Meeting Action	Completed in 2007.	
Revised					

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 11 (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 which contain a section on inspections is in final draft form and has been approved by the Planning Board. Also contains	Have Planning Board hold hearing to incorporate stormwater rules & regulations into the planning board regulations. Distribute new
Revised				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	Review new EPA Permit with our Bylaw to see if changes need to be made based on the new permit requirements.
Revised					1
5e	Present Bylaw for Town Meeting Action	Land Use Coordinator	Make presentations for Town Meeting Action	Completed in 2007.	
Revised					

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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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities –
6a	Street Sweeping Program	Highway Department	Sweep all streets once per year	Completed	Continue Annually
Revised					
6b Revised	Catch Basin Cleaning Program	Highway Department	Clean catch basins once very two years	Cleaned annually. 120 basins cleaned for this reporting period.	Continue annually as budget allows. Investigate purchasing new clamshell unit as current equipment is over 30 years old.
6c Revised	Perform site visits to examine existing practices	Land Use Coordinator	Target all applicable municipal facilities	Complete.	Monitor for any changes
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				-	

$\textbf{7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)} \quad << \textit{if applicable}>> \\$

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities –
Revised				-	
Revised					
Revised					
Revised					
Revised					
Revised				··	
7a. A	dditions				

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

During Permit Year 11, 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 Waste 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, 2013 through March 31, 2014)

Programmatic

	(Preferred Unit	s) Response
Stormwater management position created/staffed	(y/n)	no
Annual program budget/expenditures **	(\$)	5,000
Total program expenditures since beginning of permit coverage	(\$)	
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
		6 Waste Oil
 community participation ** 	(# or %)	66 residents.
		HHW

■ material collected **		3.27 tons HHW 423 gallons of waste oil
School curricula implemented	(y/n)	

Legal/Regulatory

	In Place	Reviewing		Draft	
	Prior to	Existing		in	
	Phase II	Authorities	Drafted	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				X	
■ Erosion & Sediment Control				X	
 Post-Development Stormwater Management 				X	

Mapping and Illicit Discharges

	(Preferred Uni	ts) 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 %)	3
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	30
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 Uni	ts) 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 **	(#)	120
Qty. of storm drain cleaned **	(%, LF or	20 LF
	mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	~2.0 tons
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	compost

Basin Cleaning Costs		
Annual budget/expenditure (labor & equipment)**	(\$)	\$5,000
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)	~820 yds
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	compost
Annual Sweeping Costs		
 Annual budget/expenditure (labor & equipment)** 	(\$)	\$40,000
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 %)	95%
 Herbicides 	(lbs. or %)	95%

 Pesticides 	(lbs. or %)	95%
Integrated Pest Management (IPM) Practices Implemented	(y/n)	Y

(Preferred	Units)	Response

	(Freienca Clifts) 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.	-2%
	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
	I	1

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