

**Municipality/Organization:** Town of Sandown

**EPA NPDES Permit Number:** NHR041032

**MaDEP Transmittal Number:** W-

**Annual Report Number  
& Reporting Period:** No. 1: March 09-March 10

## **NPDES PII Small MS4 General Permit Annual Report**

### **Part I. General Information**

**Contact Person:** Arthur Genualdo **Title:** DPW Director

**Telephone #:** (603) 887-3484 **Email:** Townofsandown@sandown.us

#### 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:** Nelson Rheaume

**Printed Name:** Nelson Rheaume

**Title:** Chairman, Board of Selectmen

**Date:**

## Part II. Self-Assessment

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





### 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 7 (Reliance on non-municipal partners indicated, if any)	Enter any revised info here
PE-1	Public Awareness – Video	Health Officer Ken Sherwood	12 showings/yr	Continue to show video	
Revised					
PE-2	Educational Flyer	Sanitation Dept	# Flyers Distributed (1000/yr)	Added inkjet recycling program	Conservation Commission published two Buffer brochures a year apart with stormwater management tips for homeowners
Revised		Arthur Genuardo	2500 per year		
PE-3	Web Page Linked to Main Page	BOS Office Manager	10% of main page visitors	Added more information and links to website on stormwater tips for consumers	
Revised		Lynne Blaisdell			
PE-4	Elementary School Programs	BOS	1 project/yr	Kiosk implemented – continue to highlight and focus on topic once per year for a particular month	
Revised	Town Library Information Kiosk	BOS Nelson Rheaume			
Revised					
Revised					

#### 1a. Additions

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## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Enter any revised info here
PP-1	Town Board Coordination	BOS	# Participants/ # Meetings	Hazardous Mitigation Plan adopted by Selectmen	
Revised		Nelson Rheume		Conservation Commission Members with Selectmen to address culvert issues on Wells Village Rd and apply for grant monies	
PP-2	Town Deliberative Session	Highway Dept.	Discuss & Pass Warrant Article	Road Improvement Capital Reserve Fund warrant article appropriated	Subsequent warrant article passed to continue 2010 phase of Road Improvement Plan
Revised		Arthur Genuardo	Costs allocated via the yearly budget	\$223,500 to begin 10 year Road Improvement Plan – major town roads will be repaired/reconstructed and problems addressed including drainage, runoff etc.	
PP-3	Coordinate w/State Hwy Dept.	Highway Dept.	# Participants/ # Meetings	Selectmen and DPW Director met with NHDOT regarding paving of Route 121A. Paving to begin in 2008 season – stormwater runoff and flooding issues to be addressed	Paving of Route 121A completed
Revised		Arthur Genuardo	Routine meetings		
PP-4	Coordinate w/Adjacent Towns	Highway Dept.	# Participants/ # Meetings	Work with Danville to open a closed bridge designated as emergency evacuation route for both towns – meetings ongoing	Danville bridge will be opened
Revised		Arthur Genuardo	Recently met with both Chester and Hampstead on issues		
PP-5	Waste Oil Disposal	Sanitation Dpt.	Annual Volume – 5%/yr. incr.	Applied for grant for used waste oil space heater (burner) – will used oil collected from residents - pending grant approval	Grant approved, however, town operated in default budget so no add'l funds for waste oil heater – will apply again this year
Revised		Arthur Genuardo			



Revised					

## 2a. Additions

PP-6	Exotic Species Program	BOS  BOS Nelson Rheaume	# Participants/ # Monitorings Control of Fanwort and milfoil at Phillips Pond	Progress on Goal(s) Permit Year 7  No treatment was required for 2008	Enter any revised info here  Land based Exotic Species should be addressed. Conservation held an invasive species workshop in May 2009
PP-7	Local Water Quality Monitoring for Showell Pond and Phillips Pond	BOS  BOS Nelson Rheaume	# Participants to monitor pond's cyanobacteria levels # months of absence of Blooms at Showell Pond & Phillips Pond	Showell Pond Association continues monitoring of lake conditions and education of residents and working with NHDES	DES conducted a TMDL study on Showell Pond for phosphorus and results outline an implementation plan to reduce phosphorus inputs to waterbodies and bring phosphorus levels to NH water quality standards



### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Enter any revised info here
ID-1	Update MS4 Plan	Highway Dept.	Confirm Outfalls/ Update plan	All catch basins cleaned and updated GPS info on new basins from subdivisions for 2008	All catch basins cleaned and updated GPS info on new basins from subdivisions for 2009
Revised		Arthur Genuardo			
ID-2	Identify Illicit Connections/Discharge	Highway Dept/ Health Officer	# inspections & repairs/ yr	Inspections & identification of discharges and blowouts Respond/Investigate possible septic system failures	Investigate establishing stricter controls and possible implementation of fines DES performed a Fluvial Geomorphic study of the Exeter River in 2008. Any illegal discharges into the Exeter River were identified – none were found. NHDES phosphorus study on Showell Pond which will outline remedial steps to bring levels to NH water quality standards.
Revised		Arthur Genuardo/ Ken Sherwood			
ID-3	Failing Septic Systems	Health Officer/ Ken Sherwood	# inspections & repairs/yr	Continue visual tracking of system failures	
Revised					
ID-4	Illegal Dumping	Highway Dept/	# Dumps reported & cleaned	Existing ordinance in place since 1986 with fine for illegal dumping of trash State Protected River signs posted along Exeter River	
Revised		Arthur Genuardo			
ID-5	Community Outreach	Sanitation Dept/	# pamphlets distributed	Added inkjet recycling program	Conservation Commission published two buffer brochures mailed to every



Revised		Arthur Genuardo			household in 2009 and 2010. Conservation has also facilitated workshops and presentations on Wetlands, Invasive Species, Riparian Buffers, Value of Open Space and attempted with the Planning Board attempted to pass a wetland ordinance to reduce the impact of stormwater runoff by implementing riparian buffers. The ordinance did not pass
Revised					

### 3a. Additions


### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Enter any revised info here
CS-1	Sediment Control	Conservation Comm/	# Sites/Methods implemented	Implements in all site reviews which required wetlands CUP since October 2003	Fluvial Geomorphic study of the Exeter River in Sandown was conducted in 2008 identifying areas of concern and recommendations for repair.
Revised		Brian Butler		Coordinate efforts with Planning Board in this area	
CS-2	Erosion Control	Conservation Comm/	# Sites/Methods implemented	Implements in all site reviews which required wetlands CUP since October 2003	Fluvial Geomorphic study of the Exeter River in Sandown was conducted in 2008 identifying areas



Revised		Brian Butler		Coordinate efforts with Planning Board in this area	of concern and recommendations for repair.
CS-3	SWPP Review	Planning Board/ Donna Green	# Plans Reviewed	100% review at Precon by Town consulting engineer	
Revised		Donna Green			
CS-4	Construction Runoff Regs for Runoff Control	Planning Board/ Donna Green	Subdivision Regulations Updated	No change from prior year BMP	Construction Runoff Regulations to be reviewed in 2010
Revised		Donna Green			
Revised					
Revised					

#### 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 7 (Reliance on non-municipal partners indicated, if any)	Enter any revised info here
PC-1	Runoff Control in Site Plan Regs.	Planning Board/ Donna Green	Annual Review/Reduction in loopholes	Annual review of erosion & sediment control section of site plan regs	Site plan regulations to be reviewed in 2010 by the Planning Board
Revised		Donna Green			



PC-2	Buffer Zone	Conservation Commission/	Establish new BMPs	A Prime Wetland Study was conducted in 2008 identifying the wetlands of highest value. An educational brochure on the value of buffers was distributed to every household in Sandown	The Planning Board attempted to pass a new Wetland Ordinance in 2010. It failed by 75 votes.
Revised		Brian Butler			
PC-3	Inspection Program in Site Plan	Planning Board/ Fred Daley	# inspections/problems fixed	Continue as noted in year 3	
Revised		Donna Green			
PC-4	Catch Basins	Highway Dept/	Inventory & clean out Basins	All catch basins cleaned, 100% tracking and identification with GPS	
Revised		Arthur Genuardo			
Revised					
Revised					

#### 5a. Additions

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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 7 (Reliance on non-municipal partners indicated, if any)	Enter any revised info here
MG-1	Road Salt Reduction	Highway Dept/	Total Salt volume/yr	reinvestigation of brine solution as alternative application by new Road Agent	
Revised		Arthur Genuardo			
MG-2	Spill Control & Reduction	Fire Dept/	# Vehicle & non-vehicle releases	Continue to review procedures for spill control & reduction; update if necessary	



Revised		Fire Dept/ Chief Wilfred Tapley			
MG-3	Fertilizer/Pesticide Reduction	Conservation Commission/	Lawn care Specialist Training	An educational brochure on low impact lawn management was distributed to every household in Sandown in 2009	Buffer brochures were sent to every household in 2009 and 2010 addressing low impact lawn care
Revised		Brian Butler			
MG-4	Employee Training	Road Agent/ Arthur Genuardo	Workshops Attended		Employees attend 2 day NRRA conference yearly which covers hazardous waste, recycling and BMP's of waste management – other trainings include Excavation Safety Seminar and drainage seminar sponsored by UNH
Revised					
Revised					
Revised					

#### 6a. Additions


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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 7 (Reliance on non-municipal partners indicated, if any)	Enter any revised info here
QI-1	E.Coli Monitoring	Health Officer/ Ken Sherwood	Tracking Philips Lake Outfall	Continue testing of Phillips Pond bathing waters	



Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

### 7a. Additions


### 7b. WLA Assessment

N/A



#### Part IV. Summary of Information Collected and Analyzed

Town beach monitoring is in place and baseline data collected to determine 'normal' & 'worst-case' (e.g., immediately after heavy rains) *e. coli* levels.

#### Part V. Program Outputs & Accomplishments (OPTIONAL)

##### Programmatic

Stormwater management position identified (Road Agent)	Yes	

##### Education, Involvement, and Training

Estimated number of residents reached by education program(s)	2500	2600
Stormwater management committee established	Haz Mit established	Haz Mit Adopted
Stream teams established or supported	No	
Shoreline clean-up participation or quantity of shoreline miles cleaned	yes	
Household Hazardous Waste Collection Days		
▪ days sponsored	2	
▪ community participation	Not known (regional)	
▪ material collected	Not known (regional)	



School curricula implemented	No (regional)	Conservation Commission gave a wetland wildlife presentation to Sandown north students in 2010 and is working with the school on continued education
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### Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination		X		
▪ Erosion & Sediment Control	X	X		
▪ Post-Development Stormwater Management		X		
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination			X	
▪ Erosion & Sediment Control			X	X
▪ Post-Development Stormwater Management			X	

### Mapping and Illicit Discharges



Outfall mapping complete	100%	
Estimated or actual number of outfalls		
System-Wide mapping complete	100%	
Mapping method(s)		
▪ Paper/Mylar	100%	
▪ CADD	20%	
▪ GIS	100%	
Outfalls inspected/screened	100%	
Illicit discharges identified		
Illicit connections removed	N/A	N/A
% of population on sewer	0	0
% of population on septic systems	100	100

### Construction

Number of construction starts (>1-acre)	Approx. 55	23 SFD 2009
Estimated percentage of construction starts adequately regulated for erosion and sediment control	95%	
Site inspections completed (estimated between Planning Board, Engineer, Bldg Insp., Conservation)	100%	
Tickets/Stop work orders issued	0	0
Fines collected	0	0
Complaints/concerns received from public	1	

### Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	30%	0 *
Site inspections completed		0 *
Estimated volume of stormwater recharged	Not known	Not known



* We do not have post-construction Stormwater control regulations		
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## Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	Twice/year	Twice/year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	Twice/year	Twice/year
Total number of structures cleaned	135	162
Storm drain cleaned	Regularly	Same
Qty. of screenings/debris removed from storm sewer infrastructure	Not known	Not known
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)	Compost	Compost
Cost of screenings disposal	No cost	No cost

Average frequency of street sweeping (non-commercial/non-arterial streets)	N/A	N/A
Average frequency of street sweeping (commercial/arterial or other critical streets)	Once/year	Once/year
Qty. of sand/debris collected by sweeping	3 tons	3 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	Landfill	Landfill
Cost of sweepings disposal	No cost	
Vacuum street sweepers purchased/leased	N/A	
Vacuum street sweepers specified in contracts	N/A	

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	N/A	
▪ Herbicides	N/A	
▪ Pesticides	N/A	



Anti-/De-Icing products and ratios	% NaCl % CaCl <sub>2</sub> % MgCl <sub>2</sub> % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	N/A	N/A
Manual control spreaders used	Yes	Yes
Automatic or Zero-velocity spreaders used	No	NO
Estimated net reduction in typical year salt application	5-10%	5-10%
Salt pile(s) covered in storage shed(s)	Yes	Yes
Storage shed(s) in design or under construction	No	No