Municipality/Organization: Somersworth, NH

EPA NPDES Permit Number:

Annual Report Number & Reporting Period: No. 1: March 03-March 04

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: David Foster Title: City Engineer

Telephone #: 603-692-9524 Email: dfoster@somersworth.com

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:

Printed Name: JAMES M McLIN

Title: MAYOR

Date: SEPT 7, 2004

NHR041034

Municipality/Organization: Somersworth, NH

EPA NPDES Permit Number: 2004 MAY -3 P 11:48

Annual Report Number
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Signature: David P. Foster

Printed Name: David P. Foster

Title: City Engineer

Date: 4/30/04

603-692-9576

Part II. Self-Assessment

The City of Somersworth has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions.

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 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
1	Complete & show movie "There is No Away"	Engineering/ David Foster	Number of showings	Movie was completed and shown on our Cable TV station every day for two weeks. Copies of movie given to Library & to Somersworth Middle School. Teacher Lorraine Hodgson provided a letter stating that 100 students viewed the movie at Somersworth Middle School in the Spring of 2003.	Continue showing on Cable TV station. Give copies to other schools in Somersworth.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
2	Develop educational resources.	Engineering/ David Foster	Variety/number of handouts.	SWPPP Principal Contact has: attended & participated in a number of seminars, meetings, and trade shows; gathered a number of samples of educational literature.	Continue attending, participating, and gathering.
Revised	(Our SWPPP schedules this BMP for years 2 - 5).				
3	Articles in newsletter/website.	Engineering/ David Foster	Number of articles.	Articles appeared in every quarter of our quarterly newsletter. Newsletter is on our website.	Continue articles in newsletter/website.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
4	Classroom education on Stormwater.	Engineering/ David Foster	Number of students.	Mrs. Hodgson, teacher @ Somersworth Middle School, showed our movie to 100 students. The students made posters to demonstrate what they learned.	I recently purchased extra copies of the movie. I will approach more schools and teachers in Somersworth to encourage wider classroom education.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
5	Pet Waste Management	Engineering/ David Foster	Number of dog licenses.	We've been looking for educational resources to give to the City Clerk's office to hand out with Dog Licenses.	Publish and distribute flyers through the City Clerk's office.
Revised	(Our SWPPP schedules this BMP for years 2 - 5).				

1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
6	Community cleanups	Engineering/ David Foster	Number of participants.	Our 2003 Downtown Enhancement Day was run by the Somersworth Main Street Program and included 50 participants.	Another Downtown Enhancement Day.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
7	Storm Drain stenciling	Engineering/ David Foster	Number of participants.	Our Storm Drain Stenciling was a cooperative effort by the Somersworth Maplewood School, UNH Cooperative Extension Service and the Somersworth Public Works Department. In 2003 there were 120 students & 26 adults who worked a total of 93 hours, stenciled 267 grates, and distributed 270 doorhangers.	None
Revised	(Our SWPPP schedules this BMP for years 1 and 4).				
Revised					

2a. Additions

	Water Quality Monitoring (See NROC Grant application for complete description)	Public Works/John Jackman	Number of participants; number of samples; number of sampling locations.		Use TRENDS volunteers to monitor pH, dissolved oxygen, alkalinity, conductivity and temperature; Conduct additional sampling for nutrients and fecal coliforms. This activity will include sample analysis at an outside laboratory
	Public Meeting	Engineering/ David Foster	Number of attendees		Provide opportunity for public input.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
8	Sewer System Map	Engineering/ David Foster	% Complete	The size of our system is not known until it's mapped. I estimate we're 65 % complete. We constantly make corrections as we discover errors. Other municipal projects necessitate continuing progress. We applied for and received funding for mapping through NHDES for the 2004 season.	Complete mapping Wards 1, 4, & 5.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
9	Remove known illicit connections.	Engineering/ David Foster	Number removed	Two multi-unit apartments at 132 – 140 High Street removed from Storm Sewer and reconnected to Sewer in June, 2003; Laundromat removed from Storm Sewer and reconnected to Sewer in November, 2003; house at 10 Garden Street removed from storm sewer & reconnected to Sewer system in June, 2003.	We successfully applied for a grant to search for & remove illicit discharges on Myrtle St & in the Brickyard area of Somersworth.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
10	Information Management System	Public Works/John Jackman	Number of outfalls screened	We began researching available software.	Continued research on available software.
Revised	(Our SWPPP schedules this BMP for year 5).				
11	Review City Ordinances	Engineering/ David Foster	Number of changes/additions		None
Revised	(Our SWPPP schedules this BMP for years 2 & 3).				
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 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
11	Review City Ordinances	Engineering/ David Foster	Number of changes/additions	Observed the efforts of other municipalities through attendance at several stormwater seminars given in the public domain. Gathering sample ordinances from internet searches, etc.	Continued observation of other municipality's efforts and obtaining sample ordinances.
Revised	(Our SWPPP schedules this BMP for years 1 & 2).				
12	Employee training	Public Works/John Jackman	Number trained	No formal classroom training. Training so far has been "hands-on" by utilizing erosion & sediment control methods on some of our in-house projects.	Continue our "hands-on" training and supplement it with classroom training.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
13	Begin inspection program	Public Works/John Jackman	Number of inspections	We inspected our own work; developed a form for use in documentation; the consultant hired for inspecting the construction of Home Depot's new facility also inspected Stormwater Runoff.	Continue inspecting our own work.
Revised	(Our SWPPP schedules this BMP in year 3).				
14	Maximum compliance	Public Works/John Jackman	Number of inspections		See above
Revised	(Our SWPPP schedules this BMP for year 5).				

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 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
16	Identification of BMP's.	Engineering/ David Foster	Number of BMP's	Observed the efforts of other municipalities through attendance at several stormwater seminars given in this region.	Continued observation of other municipality's efforts and obtaining sample ordinances.
Revised	(Our SWPPP schedules this BMP for years 3 - 5).				
17	Post Construction Maintenance	Engineering/ David Foster	Number of facilities	At the Planning Board stage we require a Stormwater Management, Maintenance, & Inspection Plan to be submitted and approved. For the year 2003, we received 7 SMMIP's.	Continue with current practice. Develop a method of ensuring compliance by those who submitted a plan.
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
Revised					

5a. Additions

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 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
18	Vehicle washings	Public Works/John Jackman	Employees trained	Established new procedures for vehicle washings and trained Public Works staff on them.	Continue training as needed.
Revised	(Our SWPPP schedules this BMP for year 1)				
19	Street cleaning	Public Works/John Jackman	Manhours	971 hours spent sweeping streets. See C:\Dave\Stormwater\Stormwater II\Annual Report Documents\6. Pollution Prevention Good Housekeeping\Storm act two	Continue street sweeping
Revised	(Our SWPPP schedules this BMP for years 1 - 5).				
20	Train employees	Public Works/John Jackman	Employees trained	Informal training provided as needed for various SWPPP activities, such as silt fence installation & vehicle washings. Preliminary discussions with other communities to work collaboratively on more formal program.	Move forward with other entities to develop more formal training program on Stormwater activities.
Revised	(Our SWPPP schedules this BMP for years 1 – 5).				
21	Storm drain system cleaning	Public Works/John Jackman	Manhours	156.5 hours spent cleaning Storm drain system. See C:\Dave\Stormwater\Stormwater II\Annual Report Documents\6. Pollution Prevention Good Housekeeping\Storm act two	Continue storm drain system cleaning
Revised	(Our SWPPP schedules this BMP for years 1 – 5).				
22	Spill response & prevention	Public Works/John Jackman	Employees trained	(Our SWPPP schedules this BMP for years 3 & 4).	(Our SWPPP schedules this BMP for years 3 & 4).
Revised	(Our SWPPP schedules this BMP for years 3 & 4).				
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 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

7a. Additions

7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures	($)	

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	No
Stream teams established or supported	(# or y/n)	No
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	No
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	1
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	Yes

Legal/Regulatory

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

Mapping and Illicit Discharges

Outfall mapping complete	(%)	60 % +-
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete	(%)	60 % +-
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	60 % +-
▪ GIS	(%)	
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	
Illicit connections removed	(#) (est. gpd)	
% of population on sewer	(%)	80
% of population on septic systems	(%)	20

Construction

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

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	
Site inspections completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	
Total number of structures cleaned	(#)	
Storm drain cleaned	(LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	

Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		
Cost of screenings disposal	($)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	
Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Cost of sweepings disposal	($)	
Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	

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

Anti-/De-Icing products and ratios	% NaCl % $CaCl_2$ % $MgCl_2$ % CMA % Kac % KCl % Sand	
Pre-wetting techniques utilized	(y/n)	
Manual control spreaders used	(y/n)	

Automatic or Zero-velocity spreaders used	(y/n)	
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	
Storage shed(s) in design or under construction	(y/n)	