05/01/06
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Municipality/Organization: **Marlborough, MA**

EPA NPDES Permit Number: 1128

MaDEP Transmittal Number: **W-035393**

Annual Report Number & Reporting Period: **No. 3: May 05-May 06**

NPDES PII Small MS4 General Permit Annual Report

#3

Part I. General Information

Contact Person: Priscilla Ryder Title: Conservation Officer

Telephone #: 508-460-3769 Email: pryder@marlborough-ma.gov

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: Nancy E. Stevens

Printed Name: Nancy Stevens

Title: Mayor

Date: 4/27/06

Part II. Self-Assessment

The City of Marlborough has completed the required self assessment and has determined that our municipality is in compliance with all permit conditions, a few items as noted below were delayed for reasons noted and we have highlighted some of the tasks that proved successful in this past year- May '05- May'06.

Part D 1-1 – Informational brochures. The informational brochure were not mailed out in '05 however they are set to be mailed out in the residential water bills in the May-July 2005 water bill cycle and annually thereafter. We have decided that the simple flier we used for the storm drain hangers serve this public purpose. From an informal poll of residents it is not clear who actually reads these fliers. But to meet this requirement we will be sending them out this spring '06. We will still attempt to translate the document for future distribution.

Part D 1-2 – Storm Drain Stenciling. The boy scouts continue to advance our storm drain stenciling program. We now have more than ½ of the storm drains marked. However, the markers which were installed 7 years ago are now fading. A new marker will need to be found which is more durable. We will look for alternative markers in '06.

Part D 1-3 – Cable TV show- Although we have come up with a great script and have lined up the local cable station to produce a short PSA and ½ hour show, this was not produced in '05. It is our intention to have this done during the summer of '06 by our summer interns and have it begin airing in September of '06. This will also coincide with our education efforts to get the Stormwater Management Ordinance passed and implemented and will be a great education effort for residents as well as construction workers alike.

Part D 1-4 Student Education- The Conservation Commission worked with the local watershed group the Organization for the Assabet River and put together a curriculum for the" Water Wise workshops" which were held during the summer months in '05 weekly at the local beach. The workshops taught kids and adults about water conservation and water quality issues. A college student was hired who put together a curriculum which will be taught again during the summer of '06. A video was also to be produced, which is now being edited by the high school student who took the videos. This document should be available and may be able to be used as part of the local cable TV show.

Part D 1-5 – Web site - The Storm Water web page has been designed and will be posted on or before May 1, 2006 with links from both the Conservation Commission and City Engineering city web locations. See attached copy of format and information to be used.

Part D 2-4 Public Hearing - The SWMAC held a public May 12th 2005 which was attended by a few residents. Several public hearing will be held in '06 as part of the Stormwater Management Ordinance being presented to the City Council the spring of '06 and should generate much more discussion and publicity about Stormwater throughout the city.

Part D 2-5- Stream Teams. - We have had discussions with several groups who are interested in being trained to do stream team monitoring. However, we have not been successful in getting more that 10 people to participate. We will be recruiting more volunteers, once we get at least 15 volunteers signed up the state Riverways program will conduct the workshops and teach the volunteers to do the monitoring. Now that 90% of our GIS drainage maps are complete this timing will coincide nicely with completing that mapping as well and verifying where additional outfalls or problem areas might be located.

Part D 3-1 – GIS Mapping –90% of the city's drainage and connectivity have been mapped. A sample of this project is included in the appendix. In '05 summer staff verified drainage locations and flow direction in the field. This project is now almost completed, in advance of the schedule!!

Part D 3-2, 3-3, 3-4- An ordinance has been drafted and revised several times. The final version is due to be reviewed by the Stormwater Management Advisory Committee in May '06 and the city is also hiring a consulting firm to review it for consistency and "usability". Once this step is done, the final document will be submitted to City Council for review and adoption hopefully by June '06 or September '06 at the latest. The latest draft is in the appendix.

Part 4-2; 4-4– During this year we were to have done some sample and testing from selected discharge points to establish baseline quality and sensitive organism data. This task has not been done, as we were waiting for the GIS mapping to be completed. As the ordinance is not yet in place we have not yet finally determined what testing we want to do or what protocols should be followed to get some usable results. This will be discussed as the ordinance is finalized and a testing protocol established in '06.

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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
1-1	Informational brochures	Conservation/ Priscilla Ryder	Distribute city wide annually	The brochure is complete. (copy attached) This was not mailed out in '05 as we were waiting for Spanish and Portuguese translation which again failed to be delivered.	Will be distributed in May-June 2007 water bills and annually thereafter
1-2	Storm drain stenciling	Conservation/ Priscilla Ryder	Stencil ¼ of drains per year	Eagle Scouts placed markers on the remainder of the Millham watershed and began the Sudbury Reservoir Watershed catch basins in '05	The remaining catchbasins in the Sudbury Reservoir Watershed will be completed in '06. Both boy and girl scouts will be involved with this project.
1-3	Cable TV Program	Conservation/ Priscilla Ryder	Tape/ air once annually	Contact made with M8 Cable TV show and developed script. However, this was not completed in '05 as planned.	Taping set for summer of '06 as part of a summer internship program. This will be aired several times annually. One ½ hour show and a public service announcement will be developed.
1-4	Student Education		Speak to middle school class	The Water Wise Workshop series was developed and 8 classes were held at Memorial Beach during the summer of '05 (see article attached). In class programs were not held due to difficulty with scheduling and MCAS conflicts.	Funding has been provided for another summer of Water Wise Workshops in summer of '06. Scouts, camps and other clubs and groups will be targeted to be the audience for these hands on workshops. We will also attempt to get back in the classroom.
Revised		Patt Koscinski- High School Environmental Science Teacher	High School and Middle School class curriculum developed.		
1-5	Web site posting		Post storm water information on City Web site	The Stormwater web page will be up and running by May 1, '06 (see sample attached)	Information to be updated as needed annually

revised		Conservation/ Priscilla Ryder			
1-6	Prepare compliance report	Conservation/ Priscilla Ryder	Prepare annual report	Report prepared April '06	Report to be prepared April '07
1-7	Annual Reporting Reminders	Conservation/ Priscilla Ryder	Notices to non-residential properties	10 inspections done with follow up compliance. (see compliance report)	Letters to 10 new companies to be mailed July '06 Inspections Aug '06.
1.7a NEW	Annual Reporting Reminders	Conservation /Priscilla Ryder	Notices to commercial properties	No brochure was developed as it will follow the establishment of the Ordinance.	Develop a brochure to educate businesses to meet stormwater maintenance requirements. Include enforcement provision of ordinance in brochure.

2. Public Involvement and Participation

BMP ID #	**BMP Description**	**Responsible Dept./Person Name**	**Measurable Goal(s)**	**Progress on Goal(s) – Permit Year 3** (Reliance on non-municipal partners indicated, if any)	**Planned Activities – Permit Year 4**
2-1	Volunteer for stenciling	Conservation/ Priscilla Ryder	Volunteers to install storm drain markers	Eagle scouts applied markers and distributed fliers in '05	Two additional eagle scouts and a girl scout troupe will be working on drain markers and fliers in the Sudbury Watershed '06
2-2	Household Hazardous Waste Collection day	Emerg. Mgt/ Don Cusson	Hold HHWCD Annually	Two events were held 5-14-05 and 10-15-05	Two events scheduled for 5-20-06 and 10-14-06
2-3	Storm Water Management Advisory Committee	Conservation/ Priscilla Ryder	Form SWMAC	The SWMAC met twice between May '05 and May '06	SWMAC will meet at least twice in '06-'07.
2-4	Public Hearings	Conservation/ Priscilla Ryder	Hold Public Meeting on SWP	The public meeting was held on May 12, 2005	We will have additional hearing related to passage of the ordinance in '06
2-5	Stream Team	Conservation/ Priscilla Ryder	Form Stream Team	Stream team information was collected. Volunteers were recruited but we didn't get enough volunteers. (see narrative above)	Stream Team to be recruited at least 15 members needed. Stream teams will begin stream investigation in summer '06. Teams will use new GIS drainage maps as well.

2-6	Clean up day		Sponsor city wide Clean-up day	400+ volunteers participated in 4/30/05 earth day cleanup.	Annual cleanup to continue 4/'06 (the Saturday close to earth day)- see flier attached
Revised		Mayor and City Council			

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
3-1	GIS Mapping	DPW/ city engineer	Map City ¼ of Drainage System	90% of the city's drainage system has been entered onto the GIS mapping system. This includes catchbasin locations and pipe connectivity.	The remaining 10% of the final drainage linkages through private property will be done by interns as time permits. Stream teams will also help to fill in the gaps.
3-2	Ordinance Review	DPW/ city engineer/ James Arsenault	Review applicable ordinances	The Stormwater Management Ordinance was drafted and reviewed by the SWMAC and then revised again. Final version to be reviewed in May '06.	Draft ordinance and rules changes to be presented to City Council 9-'06
3-3	Protocol development for IDDE	DPW/ city engineer/ James Arsenault	Develop protocol for IDDE	DPW Engineer, Conservation Officer and Public Utility Commissioner reviewed IDDE issues. Many items listed are already being done	Develop check off list for IDDE items to gage compliance.
3-4	Ordinance Modifications	DPW/ city engineer James Arsenault	Drainage ordinance modifications	Draft Stormwater Management Ordinance was developed and is under review by the SWMAC, it has been much debated.	The draft ordinance will be presented to City Council in September '06 for approval.
3-5	Stream Team inspections	Conservation/ Priscilla Ryder	Inspect city's streams/outfalls	See 2-5 above	See 2-5 above Will begin in '07

3-6	Ill. Dis. Notice/Enforcement	DPW/ city engineer	Disconnect w/in 6 mos.		Will begin in '07

4. Construction Site Storm water Runoff Control

BMP ID #	**BMP Description**	**Responsible Dept./Person Name**	**Measurable Goal(s)**	**Progress on Goal(s) – Permit Year 3** (Reliance on non-municipal partners indicated, if any)	**Planned Activities – Permit Year 4**
4-1	Regulation Review	DPW/ City Engineer-James Arsenault	Review applicable regulations	See 3-2 above	See 3-2 above
4-2	Sampling/Testing		Sample/test to est. baseline	Have not established baseline for sampling.	Protocol for baseline sampling will be developed '06 after IDDE program is started.
Revised		DPW/city engineer-James Arsenault			
4-3	Storm water management policy		Adopt DEP Policy	See 4-1 above	See 4-1 above
Revised		DPW/ City Engineer-James Arsenault			
4-4	Re-sampling retesting discharges		Resample/retest discharges		Resampling to begin in '07 first sampling after protocol established.
Revised		DPW/ city engineer-James Arsenault			

5. Post-Construction Storm water Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
5-1	Regulation Reviews		Review applicable regulations	See 4-1 above	See 4-1 above
Revised		DPW/ city engineer- James Arsenault			
5-2	Sampling/testing		Sample/test to est. baseline	See 4-2 above	See 4-2 above
Revised		DPW/city engineer- James Arsenault			
5-3	Storm water management policy		Adopt DEP Policy	See 4-1 and 4-3 above	See 4-1 and 4-3 above
Revised		DPW/ city engineer- James Arsenault			
5-4	Re-sampling/retesting	DPW/ city engineer- James Arsenault	Resample/retest discharge	See 4-4 above	See 4-4 above
5-5	Annual Reporting	Conservation/ Priscilla Ryder	Achieve annual reporting compliance	See 1-7 above	See 1-7 above
5-6	Random inspections	Conservation/ Priscilla Ryder	Inspect 10 facilities	See 1-7 and 1-7a above	See 1-7 and 1-7a above

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 3 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 4
6-1	Street Sweeping	DPW/ Tom Cullen Jr.	Sweep all streets annually	All streets were swept between April and Nov. 20045 (see map from city web site attached)	All streets will be swept between April and Nov. 2006
6-2	Catch basin cleaning	DPW/ Tom Cullen Jr.	Clean ½ catch basins annually	1/3 of catch basins were cleaned in 2005	1/3 of catch basins will be cleaned in 2006
6-3	Employee training	DPW/ city engineer	Train DPW employees	No training was done specific to "good house keeping" in '05 however the city's DPW have been keeping up with good housekeeping practices discussed in previous years.	In- house employee training to be done in '06. Also training of custodial staff, who are regularly dumping soapy mop water into storm drains (we have discovered), will be done.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) –
The TMDL for the Assabet River and the Hop Brook were both issued in 2004. However, the city appealed the NPDES permits which are based on the TMDL and are now negotiating with the DEP and EPA regarding conditions in both these NPDES permits. We are hopeful that this next year the city will be able to work on the design of the treatment facilities based on these negotiations. We will review items within these permits that help address storm water issues as well and report next year on our progress.

Part IV. Summary of Information Collected and Analyzed

All applicable information is included in Part II and III above.

Attachements:
The following documents are attached for your review as noted above, the numbers in parenthasis references the BMP ID #.

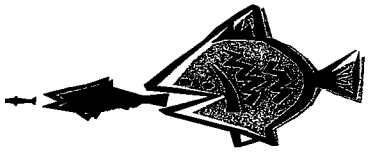
1. Brochure for water bill distribution (1-1)
2. Map of storm drain stenciling markers installed. (1-2)
3. Water Wise Workshop – article (1-4)
4. Draft Storm Water Management Web site- (1-5)
5. Public hearing notice – (2-4)
6. Clean Sweep – city wide cleanup day flier (2-6)
7. GIS – drainage map – sample map showing catch basins and piping and direction of flow (3-1)
8. Draft Stormwater Management Ordinance and Table of Contents for Rules and Regulations (3-4)
9. City wide street sweeping schedule and web page (6-1)

Stormwater Pollution

What is stormwater? It's the rain or melted snow that runs down our roads and into the drains in the streets and then into lakes, rivers, or streams.

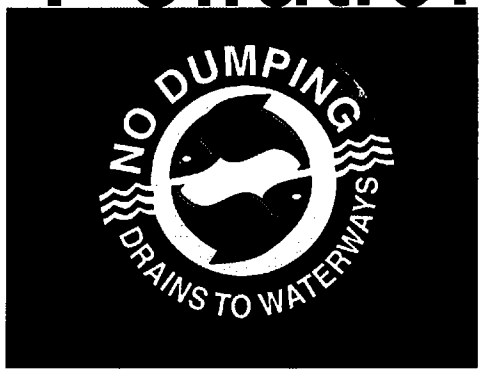
What is the problem?

Every time it rains gallons and gallons of stormwater runoff from our roads flow **UN-TREATED** into the nearest lake, pond or river and our drinking water.



What kind of pollution?

Motor oil, fertilizers, pesticides, dirt , yard clippings, pet waste and other pollutants that end up on road surfaces from cars and adjacent lawns and construction sites.



What is this round marker?

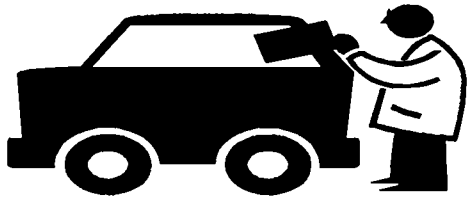
These markers are found on the side of most catch basins in the street throughout the city to remind us not to pollute our water-ways by being part of the solu-tion

Catch Basin with marker

Don't be part of the

Problem

Excess Fertilizers, pesticides & herbicides used on lawns can wash off into roadways, into drains then un-treated into bodies of water.. Fertilizers cause algae blooms



Oil, paint, gas, metals and detergents from cars are toxins that are harmful to aquatic life and when in our water supply, are expensive to remove.

Pet Waste is nu-trient rich like fertiliz-ers but also cause fecal bacterial prob-lems that close down beaches.

Be part of the

Solution

- ⇒ Don't dump anything into the storm drain
- ⇒ Use fertilizers and pesticides sparingly
- ⇒ Keep grass clipping, trash, and dirt off the streets and out of the gutter
- ⇒ Prevent automobile fluid leaks-oil gas-etc.
- ⇒ Wash car on lawn so water and soap get absorbed.
- ⇒ Use low phosphate detergents in small amounts
- ⇒ Clean up pet waste; put in trash
- ⇒ Spread the word about protecting our water
- ⇒ Participate in the annual clean sweep– the city works to sweep streets and remove sand from streets & catch basins
- ⇒ Participate in Household Hazardous Waste Collection days.
- ⇒ Report illegal dumping to the Fire Department 508-485-23223

For more information contact the

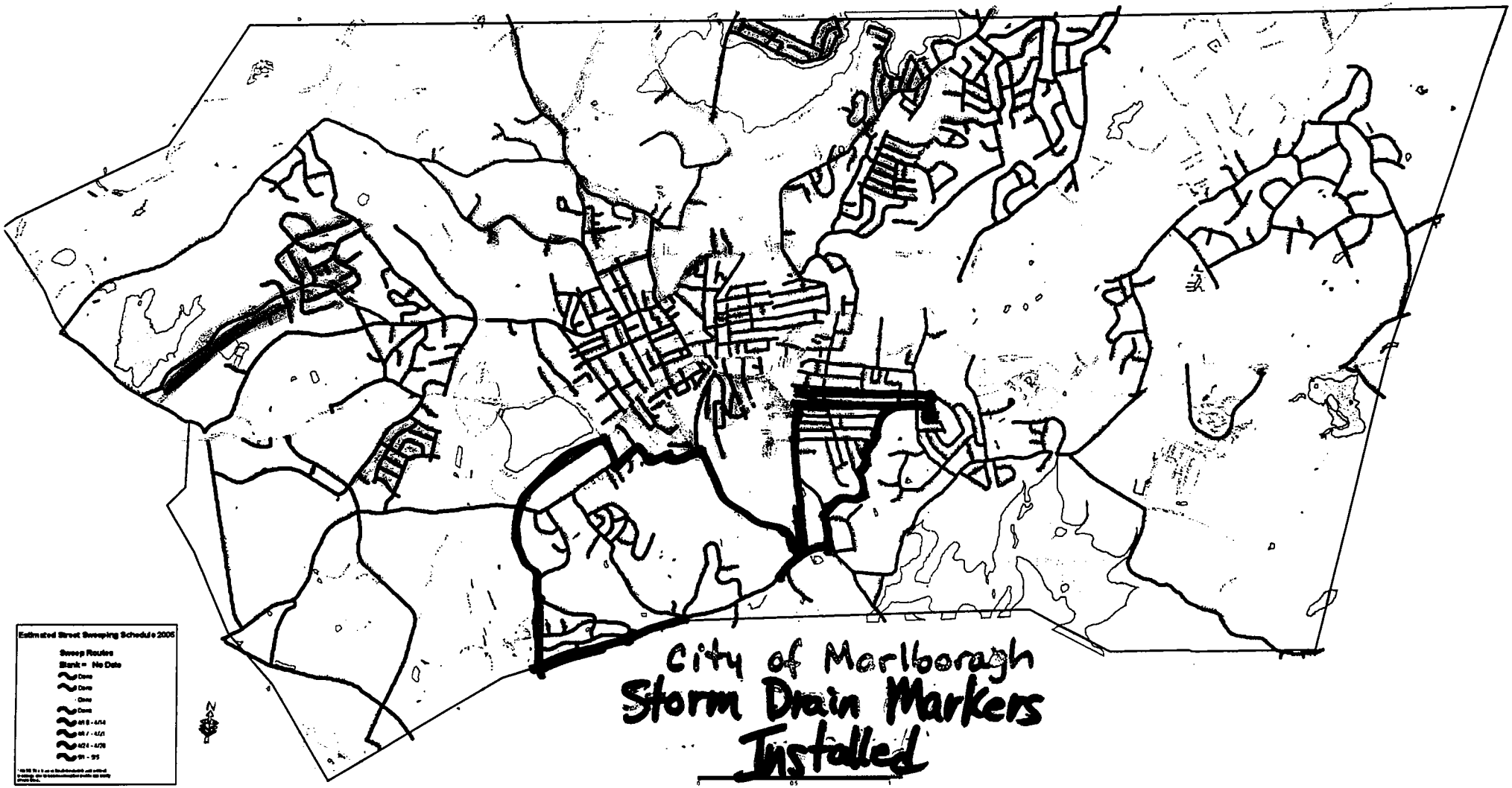
Marlborough Conservation at

508-460-3768 or
pryder@marlborough-ma.gov

[
Brochure by: Patricia Koscinski

Stormwater Pollution

You can help keep our streams, lakes and drinking water clean with a few easy steps!!


City of Marlborough
Storm Drain Markers
Installed
2003 - 2006
Estimated Street Sweeping Schedule 2006
Sweep Routes
Blank = No Date
Update No 2 - April 7, 2006
Update No 1 - March 24, 2006
Original Schedule - March 2006
GIS
Installed
Assigned for summer 2006

Water Wise Workshops for Local Youth

What is a watershed? How can you conserve water? Why do scientists test water? Why are plants important for aquatic environments? How do aquatic food webs function? How can you combat pollution?

Local youth learned the answers to these questions and many others earlier this summer in an environmental workshop series presented by OAR, the City of Marlborough and the Fort Meadow Association. The Water Wise Workshops, seven in all, took place on Marlborough's Memorial Beach from June 29th through August 10th. Topics included Watersheds and the Water Cycle, Water Conservation, Water Science and Testing, Aquatic Plants, Aquatic Animals, Aquatic Bugs and Water Pollution.

The workshops, which shared a common theme—"Water Wisdom: a Drop at a Time"—were fun, fast paced and interactive, with games, demonstrations and activities designed for children from elementary to middle school. The kids themselves described the workshops as "cool," "fun" and "awesome." Each workshop lasted approximately half an hour and was repeated throughout the day, giving all interested kids a chance to participate.

Activities included carving a watershed out of the beach sand and observing how water flows over it, cleaning water with a home-made water filter, going on an aquatic plant scavenger hunt, catching darter fish with a seine net, and constructing a huge food "web" right on the beach. The children were able to see bladderwort, darters, aquatic snails, dragonfly larvae and other aquatic animals firsthand. They learned the importance of water and aquatic ecosystems, as well as practical tips to help preserve these resources.

The workshops were free to the public thanks to the generous support of the following Marlborough businesses: 27 Prospect Street Foundation, Caboodle Cartridge, Capaccio Environmental Engineering, Rich Anzalone RE/MAX, Rohm and Haas Electronic Materials and St. Mary's Credit Union.

The workshop series is part of OAR's education initiative. The project team included Paul Goldman, OAR Board member and Education Committee Chair; Priscilla Ryder, Marlborough's Conservation Officer and Patt Koscinski, Marlborough High School science teacher. Other project team members included the two interns, who presented the workshops, Michael Jordan, a student at Harvard University, and Nicole Shanks, a teacher at Marlborough High School; as well as the workshop photographer, John McCarthy, a Marlborough High School student.

DRAFT Web Page

Stormwater Management

Stormwater Information

Stormwater discharges are generated by runoff from land and impervious areas during rainfall and snow events. Stormwater picks up litter, sand, bacteria, oil and other chemicals as it flows over the land and it carries these pollutants to our streams, rivers, ponds and wetlands. Runoff from paved surfaces, such as roads, parking lots and rooftops, drain through pipes and contribute large amounts of polluted storm water. Cleaning up storm water not only benefits our neighborhoods and town, it also benefits the entire network of water bodies and land that make up our watershed [Sudbury-Assabet-Concord (SuAsCo) Watershed].

In Marlborough, stormwater is regulated at the federal level by the Environmental Protection Agency (EPA), the state level by the Massachusetts Department of Environmental Protection (DEP) and at the city level it will soon be regulated by a local ordinance which will help prevent dirty water from homes and construction sites from discharging into our streams and ponds. Currently the Conservation Commission and Engineering Departments ensure construction sites are not discharging into streams and that no dumping of contaminates into the storm drains or streams occurs.

Tips for Keeping Stormwater Clean

Car Care Tips:

* Maintain your car to prevent fluid leaks
* Recycle motor oil, antifreeze, tires, and batteries
* Use a commercial carwash that treats and/or recycles the wash water
* If you wash your car at home, wash it on the lawn so that the water can seep into the soil, and use low-phosphate detergents in small amounts.

Lawn Care and Garden Tips:

* Use fertilizer, pesticides and herbicides sparingly
* Try using organic lawn care methods
* Mow grass 2 to 3 inches high to encourage dense growth and deter weeds
* Mulch lawn clippings and leaves (Not in the wetlands or streams)
* Do not over water your lawn
* Reduce lawn size in favor of natural vegetation or rock gardens
* Cover soil piles with tarps and replant bare areas to stop erosion

General Tips:

* NEVER pour or sweep anything down a storm drain, including: motor oil, litter, leaves, sand, pet waste or

For more information on Stormwater, use the following links:

EPA Stormwater Info

EPA NPDES Program

MA DEP Stormwater

MA DEP Stormwater Permit Applications

For questions regarding Marlborough's Stormwater policy the Conservation Office can be reached at:
Telephone
508-460-3768
Or e-mail
pryder@marlborough-ma.gov

or the City Engineer at _____
_____

As authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into ditches. Individual homes that are connected to a municipal system, use a septic system, or do not have a surface discharge do not need an NPDES permit; however, industrial, municipal, and other facilities must obtain permits if their discharges go directly to surface waters.	paint (only rainwater should enter the drain) * DO NOT block stormwater drains with refuse or debris * If you own a parking lot, have it swept annually and clean catchbasins and drainage structures annually to remove sand and to keep the system clean. * If you are doing construction on more than 1 acre of land, you may need an EPA Construction General Permit _____link here____ * Always place hay bales or silt fencing on the down slope side of all construction sites to prevent silty water from entering a wetland or drainage system.

STORMWATER MANAGEMENT PLAN
PUBLIC MEETING
MAY 12, 2005 (Thursday)
7:00 P.M. – City Hall
3rd Floor – Memorial Hall

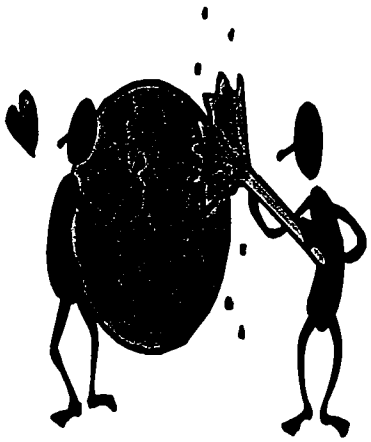
The drains in our streets convey all our rainwater untreated directly into our streams, lakes, ponds and water supply. When it rains, the rainwater carries sand, dirt, oil, pesticides and anything else in its way down these street drains. As part of the Clean Water Act requirement from the EPA, each community must work to improve the water quality entering and leaving our storm drains in order to improve the water quality of our streams, lakes, ponds and rivers.

The Stormwater Management Advisory Committee is looking for your input on how best to achieve this task. We will be presenting an overview of the tasks we are currently doing to meet the EPA permit requirements and are looking for your ideas on how to do this better!

Please come and find out how you can help protect– the water you drink, swim in, and fish in.

If you have any questions or need additional information please call
Priscilla Ryder at the Conservation office at508-460-3768

"PROJECT CLEAN SWEEP"
APRIL 29, 2006

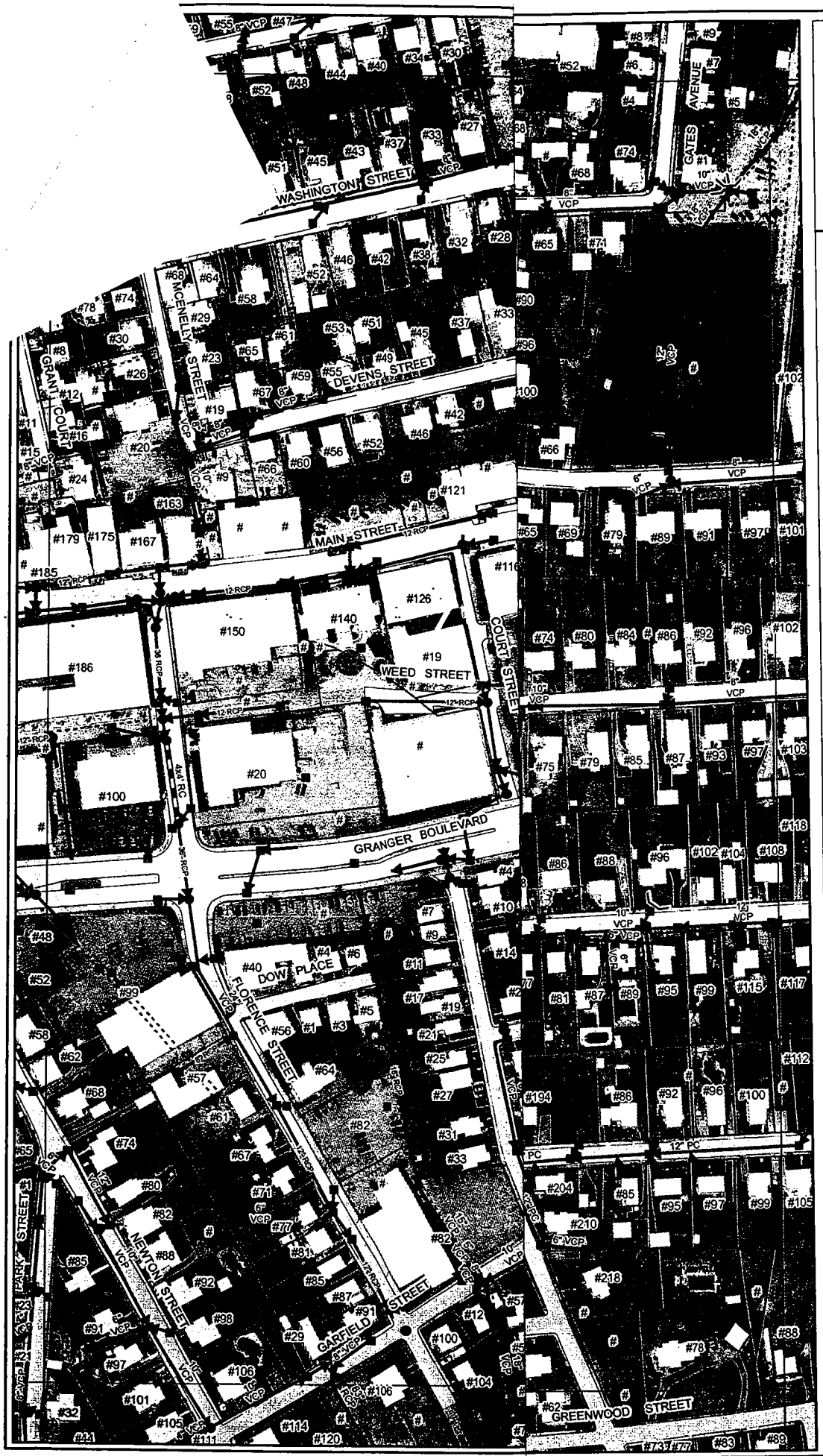


MAYOR NANCY STEVENS & CITY COUNCIL INVITE
ALL RESIDENTS TO TAKE PART IN
"PROJECT CLEAN SWEEP" - SATURDAY, APRIL 29.
TAKE PRIDE AND
HELP BEAUTIFY OUR COMMUNITY.

VOLUNTEERS SHOULD ARRIVE AT **MEMORIAL BEACH BY 9:00AM.** IF YOU HAVE EXTRA, PLEASE BRING BROOMS, RAKES & GLOVES. EVERYONE IS ASKED TO SWEEP SAND OFF SIDEWALKS INTO THE GUTTER AND TO PICK UP ANY LITTER.

VOLUNTEERS WILL RECEIVE
"PROJECT CLEAN SWEEP" T-SHIRTS. REFRESHMENTS WILL BE SERVED.
CONTACT YOUR WARD COUNCILOR AT (508) 460-3711 OR
DORAN CROUSE @ DPW (508) 624-6910 X7103
RAIN DATE: SUNDAY APRIL 30TH: 1:00PM-4:00PM

PARA INFORMACION EN ESPANOL LLAME (508) 624-6925
PARA TRADUCOA EM PORTUGES (508) 624-6925)



City of Marlborough, Massachusetts

City of Marlborough GIS

Drainage Atlas
December 2005

Legend

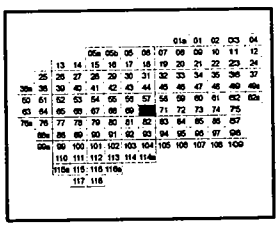
Drain Features

- Catch Basin
- Drain Manhole
- Drain Pipe
- Culvert
- Headwall/Outfall

Landbase Features

- Building
- Tank
- Lake/Pond
- Wetland
- River/Stream
- Easement
- Townline

Locus Map



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Map Number
70

Date of Last Page Update:
Mar 15, 2006

Chapter 171

STORMWATER MANAGEMENT

§171-1 Purpose
§171-2 Definitions
§171-3 Authority
§171-4 Administration
§171-5 Applicability
§171-6 Procedures
§171-7 Enforcement
§171-8 Severability

§171-1 PURPOSE

The purpose of this Ordinance is to regulate the discharges to the city's drainage system and wetlands, to protect the city's water bodies, and to safeguard the public health, safety, welfare and the environment. Contaminated and increased stormwater runoff associated with developed land uses and the accompanying increase in impervious surface are major causes of impairment of water quality and flow in lakes, ponds, streams, rivers, wetlands and groundwater; contamination of drinking water supplies; alteration or destruction of aquatic and wildlife habitat; and flooding.

The objectives of this ordinance are:
1. To prevent pollutants from entering the city's municipal storm drain system.
2. To prohibit illicit connections and unauthorized discharges to the municipal storm drain system.
3. To require the removal of all such illicit connections;
4. To comply with state and federal statues and regulations relating to storm water discharges;
5. To protect against increased rate of runoff and flooding;
6. To protect ponds, lakes, rivers and streams from contamination and from excessive nutrient loading;
7. To ensure ongoing maintenance of drainage systems on public and private properties
8. To establish the legal authority to ensure compliance with the provisions of this ordinance through inspection, monitoring and enforcement.

Nothing in this Ordinance is intended to replace the requirements of the existing City ordinances that are or may be adopted by the City of Marlborough. Where there are any difference between this ordinance and others the more restrictive ordinance regulation shall govern.

§171-2 DEFINITIONS

The following definitions shall apply in the interpretation and implementation of this Ordinance, additional definitions may be adopted by separate regulation:

ALTER: Any activity, which will measurably change the ability of a ground surface area to absorb water or will change existing surface drainage patterns. Alter may be similarly defined as "alteration of drainage characteristics," and "conducting land disturbance activities."

BETTER SITE DESIGN: Site design approaches and techniques that can reduce a site's impact on the watershed through the use of nonstructural stormwater management practices. Better site design includes conserving and protecting natural areas and green space, reducing impervious cover, and using natural features for stormwater management.

GENERAL STORMWATER MANAGEMENT PERMIT (GSMP): A permit issued for an activity that meets a set of pre-determined standards outlined in the Stormwater Rules and Regulations to be adopted by the Siteplan Review Committee under Section 4 of this ordinance. By meeting these pre-determined standards, the project will be presumed to meet the requirements and intent of this ordinance.

HOTSPOT: Land uses or activities with higher potential pollutant loadings, such as auto salvage yards, auto fueling facilities, fleet storage yards, commercial parking lots with high intensity use, road salt storage areas, commercial nurseries and landscaping, outdoor storage and loading areas of hazardous substances.

MASSACHUSETTS STORMWATER MANAGEMENT POLICY: The Policy issued by the Department of Environmental Protection, and as amended, that coordinates the requirements prescribed by state regulations promulgated under the authority of the Massachusetts Wetlands Protection Act G.L. c. 131 § 40 and Massachusetts Clean Waters Act G.L. c. 21, §. 23-56. The Policy addresses stormwater impacts through implementation of performance standards to reduce or prevent pollutants from reaching water bodies and control the rate of runoff from a site.

NEW DEVELOPMENT: Any construction or land disturbance of a parcel of land that is currently in a natural vegetated state and does not contain recent alteration by man-made activities.

PERSON: Any individual, group of individuals, association, partnership, corporation, company, business organization, trust, estate, the Commonwealth or political subdivision thereof to the extent subject to City Ordinances, administrative agency, public or quasi-public corporation or body, the City of Marlborough, and any other

legal entity, its legal representatives, agents, or assigns.

REDEVELOPMENT: Any construction, alteration, or improvement of a previously developed site, as determined by the City Engineer and Conservation Officer, exceeding land disturbance of 5,000 square feet, where the existing land use is commercial, industrial, institutional, or multi-family residential.

SITEPLAN REVIEW COMMITTEE: The City of Marlborough Site Plan Review Committee shall serve as the city's stormwater advisory committee. Representatives include the Building, Conservation, Fire, Planning, Police, Board of Health and Public Works departments. The City Engineer and Conservation Officer are responsible for coordinating the review, approval and permit process as defined in this Ordinance and its administration, implementation and enforcement.

STORMWATER MANAGEMENT PERMIT (SMP): A permit will be issued by the City Engineer and Conservation Officer, after review of an application, plans, calculations, and other supporting documents, which is designed to protect the environment of the City from the deleterious effects of uncontrolled and untreated stormwater runoff.

§171-3 AUTHORITY

This Ordinance is adopted under authority granted by the Home Rule Amendment of the Massachusetts Constitution, the Home Rule statutes, and pursuant to the regulations of the federal Clean Water Act found at 40 CFR 122.34, and as authorized by Marlborough City Council at the City Council meeting , dated [_____].

§171-4 ADMINISTRATION

A) The Siteplan Review Committee, shall administer, implement and enforce this Ordinance. Any powers granted to or duties imposed upon the siteplan review committee may be delegated in writing by the City Engineer and Conservation Officer to its employees or agents.

B) Stormwater Rules and Regulations. The siteplan review committee may adopt, and periodically amend, rules and regulations relating to the terms, conditions, definitions, enforcement, fees (including application, inspection, and/or consultant fees), procedures and administration of this Stormwater Management Ordinance by majority vote of the siteplan review committee, after conducting a public hearing to receive comments on any proposed revisions. Such hearing dates shall be advertised in a newspaper of general local circulation, at least seven (7) days prior to the hearing date. After public notice and public hearing, the siteplan review committee may promulgate rules and regulations to effectuate the purposes of this Ordinance. Failure by the siteplan review committee to promulgate such rules and regulations or a legal declaration of their invalidity by a court shall not act to suspend or invalidate the effect of this Ordinance.

C) Stormwater Management Manual. The City Engineer and Conservation Officer will utilize the policy, criteria and information including specifications and standards of the latest edition of the Massachusetts Stormwater Management Policy, for execution of the provisions of this Ordinance. This Policy includes a list of acceptable stormwater treatment practices, including the specific design criteria for each stormwater practice. The Policy may be updated and expanded periodically, based on improvements in engineering, science, monitoring, and local maintenance experience. Unless specifically altered in the Stormwater Rules and Regulations, stormwater management practices that are designed, constructed, and maintained in accordance with these design and sizing criteria will be presumed to comply with Massachusetts water quality standards.

D) Stormwater Management Permit. The City Engineer and Conservation Officer shall have the authority to develop two types of permits. The first, a General Stormwater Management Permit, and a Stormwater Management Permit. A General Stormwater Management Permit (GSMP) would be for specific types of projects which are small, such as, Construction of a Deck, Patio, Retaining Wall, Existing Driveway Expansion, Shed, Swimming Pool, Tennis or Basketball Court, and some minor roadway and parking lot milling and repair. Any such General Stormwater Management Permit Requirements shall be defined and included as part of any Stormwater Regulations promulgated as a result of this Ordinance. The second, a full Stormwater Management Permit would be required for all other projects not covered by the General permit and not exempt in Section 171-5 B of this Ordinance.

E) Actions by the City Engineer and Conservation Officer. The City Engineer and Conservation Officer may take any of the following actions as a result of an application for a Stormwater Management Permit as more specifically defined as part of Stormwater Regulations promulgated as a result of this Ordinance: Approval, Approval with Conditions, Disapproval, or Disapproval without Prejudice.

F) Appeals of Action by the City Engineer and Conservation Officer. A decision of the City Engineer and Conservation Officer shall be final. A decision by the City Engineer and Conservation Officer made under these Rules and Regulations shall be reviewable with the City Council for purposes of mediation only. If still not resolved then relief of the decision shall be reviewable in the Superior Court in an action filed within 60 days thereof, in accordance with M.G.L. Ch 249. § 4.

§171-5 APPLICABILITY

A) This Ordinance shall be applicable to all new development and redevelopment projects, including, but not limited to, site plan applications, subdivision applications, grading applications, land use conversion applications, earth moving activities, any activity that will result in an increased amount of stormwater runoff or pollutants flowing from a parcel of land, or any activity that will alter the drainage characteristics of a parcel of land, unless exempt pursuant to Section 171-5 B of this Ordinance. All new

development and redevelopment under the jurisdiction of this Ordinance as prescribed in this Ordinance shall be required to obtain a Stormwater Management Permit.

Any alteration, redevelopment, or conversion of land use to a hotspot such as, without limitation: auto salvage yards, auto fueling facilities, fleet storage yards, commercial parking lots with high intensity use, road salt storage areas, commercial nurseries and landscaping, outdoor storage and loading areas of hazardous substances, shall require a Stormwater Management Permit without exemption.

B) Exemptions

No person shall alter land within the City of Marlborough without having obtained a Stormwater Management Permit (SMP) for the property with the following exceptions:

1. Any activity that will disturb an area less than 5,000 square feet. This exception may not be applied for contiguous properties held in common ownership at the time of adoption of this Ordinance or since adoption.

2. Normal maintenance and improvement of land for agricultural use as defined by the Wetlands Protection Act regulation 310 CMR 10.04 and MGL Chapter 40A Section 3.

3. Routine maintenance and repair of existing landscaping, gardens or lawn areas.

4. Routine maintenance and repair of buildings, driveways and parking lots.

5. Repair or replacement of an existing roof.

6. The construction of any fence that will not alter existing terrain or drainage patterns.

7. Routine maintenance of utilities (gas, water, sewer, electric, telephone, etc.) other than drainage, which will not adversely alter terrain, ground cover, or drainage patterns.

8. Emergency repairs to any stormwater management facility or practice that poses a threat to public health or safety, or as deemed necessary by the City Engineer and Conservation Officer.

9. Any work or projects for which all necessary approvals and permits have been issued before the effective date of this Ordinance.

1.0 PROCEDURES

Permit procedures and requirements shall be defined and included as part of any rules and regulations promulgated as permitted under Section 171-4 B of this Ordinance.

2.0 ENFORCEMENT

The Siteplan Review Committee or the authorized agents City Engineer and Conservation Officer shall enforce this Ordinance, Rules and Regulations, orders, violation notices, and enforcement orders, and may pursue all civil and criminal remedies for such violations. Enforcement shall be further defined and included as part of any Stormwater Rules and Regulations promulgated as permitted under Section 171-4 B of this Ordinance.

3.0 SEVERABILITY

The invalidity of any section, provision, paragraph, sentence, or clause of this Ordinance shall not invalidate any section, provision, paragraph, sentence, or clause thereof, nor shall it invalidate any permit or determination previously issued.

DRAFT

Stormwater Management Rules and Regulations

Chapter 171
From the Code
of the
City of Marlborough

DRAFT :April 2006

CHAPTER 171

STORMWATER MANAGEMENT

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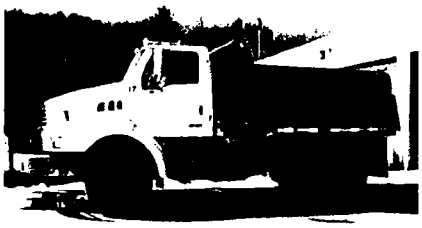
14.0 Notification of Spills

15.0 Enforcement

16.0 Severability

CITY OF MARLBOROUGH
DEPARTMENT OF PUBLIC WORKS
STREET SWEEPING PROGRAM - 2006

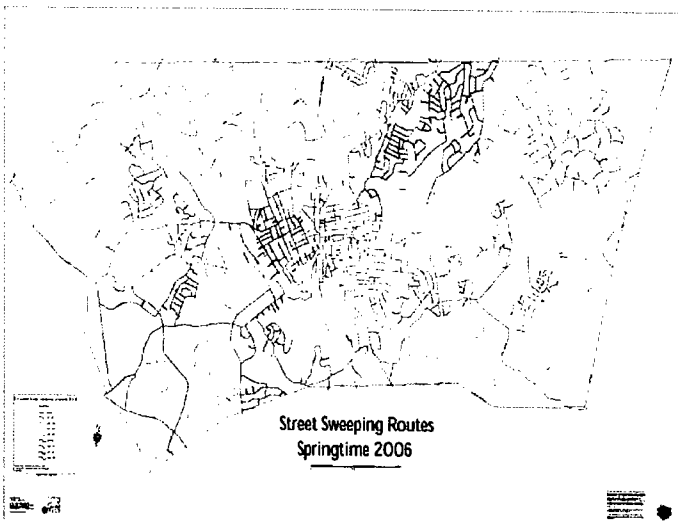


Spring is fast approaching which means that winter will soon be leaving us! Of the many challenges that the Department of Public Works faces in the Spring, sweeping our city's streets is one of the most important.

Street Sweeping Operations: At the completion of the city's snow and ice operations, the Department of Public Works' (DPW) Street Division transitions into the cleanup of the city's streets. Sweeping of our streets is one of the DPW's major tasks in the Spring which includes the pickup of the sand used during the winter.

To accomplish this task, three city street sweepers are used to clean approximately 500 lane miles of roadways. Additional pieces of equipment used during sweeping operations include front-end loaders and dump trucks. The street sweepers are dispatched on a daily basis to pre-assigned routes.

2006 Street Sweeping Schedule: The 2006 Street Sweeping Schedule can be viewed on the city's website. Please visit the city's website at www.Marlborough-ma.gov , click City Departments, click Public Works, and choose the Street Division. You may also click the map to the right to bring up the full size PDF map. We encourage each resident to visit the website to become familiar with when the street sweepers will be in your particular section of the city.



Please be aware that there are two predominant factors that adversely affect the sweeping schedule; equipment breakdowns and the weather. Street sweepers operate in the worst possible conditions (i.e. constant dust) and (even with proper maintenance and constant attention) equipment down-time due to mechanical problems is inevitable. Additionally, while sweeping can be done during a light, misting rain, the sweepers can not handle the wet, muddy sand. Please be patient. We will get to your neighborhood as soon as possible.

We will continually update the street sweeping schedule as circumstances affecting schedule requires.

Sidewalks: The city does not sweep sidewalks. However, we do encourage residents to sweep the sand from their sidewalks into the gutters shortly before we are scheduled to sweep your street. By viewing the 2006 Street Sweeping Schedule on the website, residents can have their sidewalks swept prior to the street sweepers arriving in their neighborhood.

Comments and Questions: For further information, you may contact Tom Cullen (Assistant Commissioner, Operations) or Dick Baldelli (Assistant City Engineer, Streets) at (508) 624-6910 or email at dpw@ci.marlborough.ma.us.

City of Marlborough
Conservation Commission
140 Main Street
Marlborough, Massachusetts 01752
Tel. (508) 460-3768 Facsimile (508) 460-3700

April 28, 2006

MAY - 1 20

U. S. Environmental Protection Agency
Water Technical Unit
P.O. Box 8127
Boston, MA 02114

Massachusetts Department of Environmental Protection
Division of Watershed Management
627 Main Street
Worcester, MA 01608

RE: NPDES PII Small MS4 General Permit – Annual Report No. 3

Dear: USEPA and MDEP:

Enclosed please find the NPDES PII Small MS4 General Permit – Annual Report No.3 for the City of Marlborough.

If you have any questions, please contact me at 508-460-3768 or at pryder@marlborough-ma.gov.

Sincerely,

Priscilla Ryder
Conservation Officer

Cc: Mayor Nancy Stevens
Ron LaFreniere
James Arsenault