

AGENDA
TOWN COUNCIL WORKSHOP
WEDNESDAY, JUNE 28, 2017
REVIEW OF MS4 PERMIT ON STORMWATER
5:45 P.M. - COUNCIL CHAMBERS

Item 1. Call to Order.

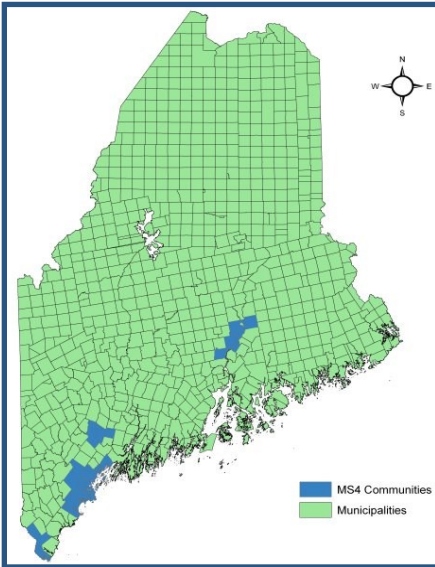
Item 2. Those Present.

Item 3. Review of MS4 Permit on stormwater.

Item 4. Adjournment.

MS4 PROGRAM

MUNICIPAL SEPARATE STORM SEWER SYSTEM



What does MS4 mean?

The Town of Scarborough is one of 30 communities throughout the State of Maine that is regulated by the federal government for its stormwater discharges from Town-owned and maintained pipes, ditches, and other infrastructures that carry runoff from the roadways and municipal properties to local waterways. This

Environmental Impacts

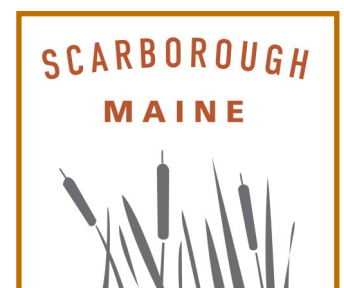
When it rains or snows, stormwater runoff travels over roads, building rooftops, parking lots, construction sites, and other impervious surfaces, sweeping up sediment, oil, grease, pet waste, and other pollutants. This polluted stormwater is then carried by pipes and ditches into our local waterways. This can have many adverse effects on the plants, fish, animals, and people who use these waterways.



overall network is referred to as the Municipal Separate Storm Sewer System or MS4.

What is Scarborough doing to keep pollutants out of the MS4, our streams, and the marsh?

-  Educating and involving the public through:
 - ⇒ Statewide media campaign, Urban Runoff 5k, YardScaping adult education courses, stenciling of catch basins, permit awareness education for council, and legislative outreach
-  Finding and eliminating illicit discharges into our MS4 system
 - ⇒ Inspecting all outfalls, reporting and eliminating issues found during outfall inspections, investigating older septic systems in priority watersheds, and developing a plan for hydrant flushing.
-  Controlling stormwater pollution at construction sites.
 - ⇒ Increasing inspections of erosion & sediment controls at construction sites.
-  Requiring permanent on-site stormwater treatment and management for new and redevelopment.
 - ⇒ Annual inspections, and maintenance logs submitted for all new development over an acre in disturbance.
-  Controlling pollution at Town facilities and from Town operations.
 - ⇒ Annual staff training including Public Works, Police, Fire, Planning, Community Services, and School Department as well as implementation of town-owned facilities' Operation & Maintenance Plans, Standard of Operating Plans, and SPCC Plan.





Scarborough Marsh

Credit: Bob Travis via flickr

What is stormwater runoff?

Stormwater runoff is precipitation (rain or melted snow) that flows over land. Stormwater can pick up pollutants as it runs off the land into lakes, streams, rivers, and the ocean; this is called polluted runoff.

Storm drains collect runoff and convey it without treatment directly into water bodies. Polluted runoff affects drinking water, human health, wildlife, and property values.

What are common stormwater pollutants?



Soil, sand, and sediments cloud the water and smother wildlife habitat.

Chemicals (fertilizer, weed & bug killers, vehicle fluids, coal tar pavement sealers, etc.), are carried with runoff and can be toxic to wildlife.

Pet waste contains bacteria that can wash into swimming areas and create health hazards, and may contribute to beach closures.

Salt, which is spread on roads, sidewalks, and parking lots to melt snow and ice, dissolves in water or snowmelt. Once salt gets into our water it cannot be removed. Salt in our waterways can be toxic to wildlife.

Debris, like cigarette butts and other forms of litter, is unsightly and can harm wildlife.



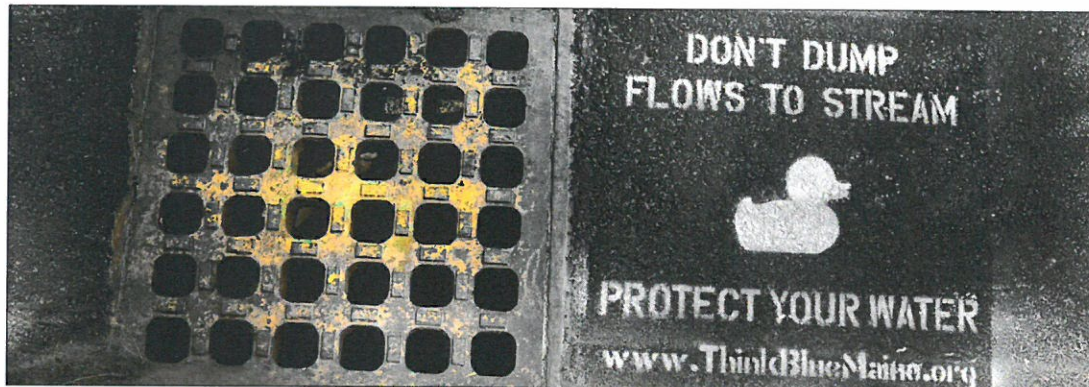
What is an MS4?

MUNICIPAL SEPARATE STORM SEWER SYSTEM, or MS4, means a stormwater conveyance that is separated from sanitary sewer systems. The storm sewer system includes roads, curbs and gutters, ditches, storm drains, outfalls, and pipes connecting these features.

Your municipality has a **CLEAN WATER ACT PERMIT** that is administered by the Maine Department of Environmental Protection (DEP) that allows you to discharge runoff into water bodies if measures are taken to minimize pollution from your storm sewer system and municipal facilities and operations. This permit is referred to as the Maine Pollution Detection and Elimination System (MPDES) MS4 Permit.

*Under the Federal
CLEAN WATER ACT,
some municipalities must
have a permit that allows
them to direct stormwater
to water bodies in their
communities, provided that
specific steps are taken to
minimize pollution.*

**IMPLEMENTATION OF
THESE STEPS IS
MANDATORY**
*if you are a regulated
municipality.*



Who is regulated, and what does it mean for Scarborough?

Municipalities, transportation agencies, public universities, prisons, military bases, and other state and federal facilities are subject to MPDES regulation.

Regulated municipalities are determined by population density and proximity to population density, based on US Census Bureau data. The regulated municipalities in Greater Portland and Saco areas are shown on the map to the right.

As a regulated community, you are subject to:

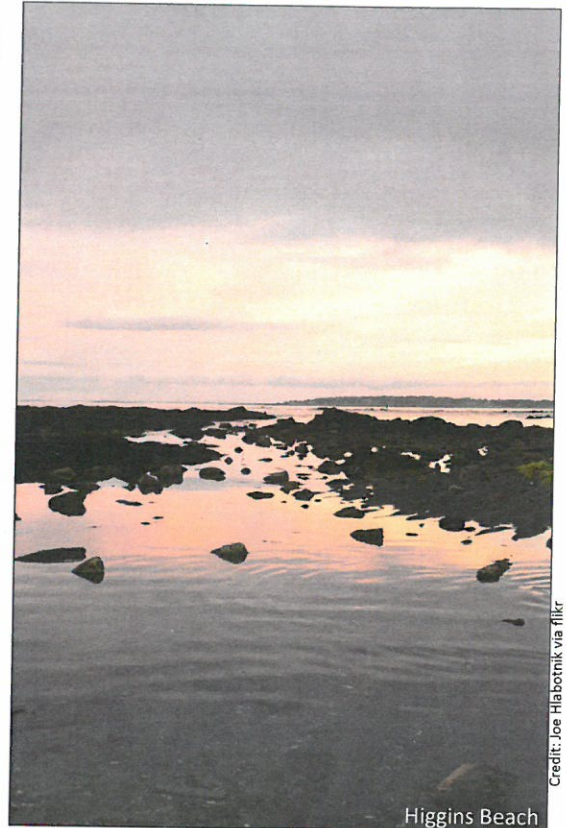
- Full compliance with permit requirements, including six minimum steps outlined in the permit (see opposite page).
- Higher costs (operational, permitting, capital improvements, etc.) than non-regulated municipalities.
- Heightened scrutiny from Maine DEP, EPA, and environmental or citizen action groups.
- Identification and improvement of your priority water body. Scarborough's priority water body is Red Brook.



What are the minimum steps required in the MS4 Permit?

- 1 Educate the public and municipal staff and officials about polluted runoff and how to reduce pollution.
- 2 Provide the public an opportunity to participate in Scarborough's stormwater program.
- 3 Identify and eliminate illegal sewer connections, dumping into storm drains, and other sources of pollution. Carry out long-term maintenance and mapping of all stormwater infrastructure.
- 4 Ensure that construction on both public and private property does not impact water resources.
- 5 Implement new development and redevelopment stormwater ordinances, and encourage developers to utilize techniques to reduce the impact of development on water resources.
- 6 Prevent pollution from municipal operations and facilities. Educate municipal staff about practices to reduce polluted runoff.

In addition to these minimum steps, Scarborough is also required to protect and restore polluted water bodies within your municipality.



INTERDEPARTMENTAL COORDINATION IS ESSENTIAL FOR SUCCESS.

A municipality-wide effort is needed to meet the requirements of the Clean Water Act permit.

To meet these requirements, Scarborough must adopt increased stormwater standards applicable to:

- New development, redevelopment, and construction;
- Long-term maintenance and inspection of stormwater infrastructure;
- Preventing pollution from all municipal operations and facilities;
- Improving polluted water bodies within your municipality, with priority given to Red Brook; and
- Raising awareness of stormwater, specifically the appropriate practices that should be used, inspected, and maintained on a regular basis to reduce polluted runoff.

RED BROOK AND PHILLIPS BROOK

Red Brook, which starts near the Westbrook town line and flows to South Portland, and Phillips Brooks, which flows from the Saco town line through Dunstan corner to the marsh, are two of Scarborough's Urban Impaired Streams, and are Scarborough's priority water bodies. The Brooks are impaired, which means pollution levels make it difficult for stream life to survive. Scarborough is currently implementing a restoration plan for Red Brook and is in the process of creating one for Phillips Brook.



How is Scarborough meeting these Clean Water Act requirements?

The Town of Scarborough is working hard to comply with stormwater permit requirements. Responsibilities of departments within Scarborough are summarized below.

Public Works Department

Primary Point of Contact: Mike Shaw, *Director*

- Inspects and maintains all municipal stormwater infrastructure.
- Follows pollution prevention measures at the public works garage to ensure that operations do not pollute water resources.
- Uses proper erosion and sedimentation control during construction & maintenance.
- Identifies possible pollution sources within the community and works to eliminate these sources with Scarborough's Town Engineer and Code Enforcement Officer.
- Ensures staff are trained in procedures for minimizing pollution, including: chemical storage, spill prevention and clean up, and erosion control.

The Interlocal Stormwater Working Group (ISWG)

is comprised of 14 MS4 communities in the Greater Portland and Saco Bay areas (see map on Page 2). ISWG is coordinated by the Cumberland County Soil & Water Conservation District and works cooperatively to meet the permit's education requirements (steps 1 & 2) for all 14 municipalities collectively.

Geographic Information Systems

Primary Point of Contact: Stephen Buckley, *Data and Project Coordinator*

- Creates and maintains up-to-date maps of all municipal stormwater infrastructure.
- Coordinates implementation of Scarborough's Stormwater Management Plan through coordination with all municipal departments and serves as the stormwater program point of contact (POC) with DEP.

Planning, Engineering, and Code Enforcement

Planning Primary Point of Contact: Jay Chace, *Senior Planner*

- Encourages developers to use Low Impact Development, which minimizes environmental impact.
- References Scarborough's non-stormwater ordinance when needed.
- Requires a Third-Party Inspector be included on larger projects to ensure proper SCMs are used.

Engineering Primary Point of Contact: Angela Blanchette, *Town Engineer*

- Reviews site and subdivision plan proposals for erosion and sedimentation control practices to ensure:
 - Construction projects include stormwater control measures (SCMs) to avoid polluting water resources; and
 - Post-construction SCMs are incorporated into development designs to keep untreated runoff from entering into Scarborough's stormwater infrastructure.
- Encourages developers to use Low Impact Development, to minimize environmental impacts from development.
- Through technical review and permitting follow-up, ensures stormwater systems designed to collect and treat stormwater (on public and private property) are maintained and functioning
- Coordinates implementation of Scarborough's Stormwater Management Plan through coordination with all municipal departments.

Code Enforcement Primary Point of Contact: Brian Longstaff, *Zoning Administrator*

- Inspects small-scale (e.g. single family homes) construction projects (on both public and private property) to ensure proper erosion and sedimentation controls are being used and pollutants are not entering the storm drain system.
- Identifies possible pollution sources within the community and notifies the primary POC as needed.

Parks & Recreation

Primary Point of Contact: Todd Souza, *Director of Community Services*

- Follows operation and maintenance plan for their facility to ensure activities do not pollute water resources.
- Ensures staff are trained in procedures for minimizing pollution, including: chemical storage and spill prevention & clean up.
- Identifies possible pollution sources within the community and notifies the primary POC as needed.

Public Safety

Primary Points of Contact: Glen Deering, *Deputy Fire Chief* and Robbie Moulton, *Police Chief*

- Follows operation and maintenance plans for their facilities to ensure activities do not pollute water resources.
- Ensures staff are trained in procedures for minimizing pollution, including: chemical storage and spill prevention and clean up.
- Identifies possible pollution sources within the community and notifies the primary POC as needed.

DEP's Point of Contact for Scarborough's MS4 Permit is *Angela Blanchette, Town Engineer*