

Bangor Stormwater Utility Planning

#2009SP01

Waterbody Name: Arctic Brook, Birch Stream, Capehart Brook,
Penjawoc Stream, Shaw Brook, Sucker Brook

Location: Bangor – Penobscot County

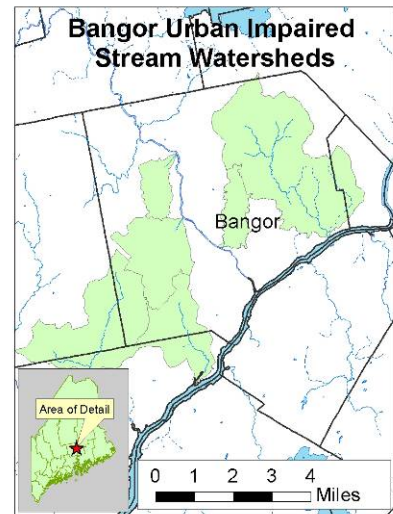
Waterbody Status: Urban Impaired Streams

Project Grantee: City of Bangor

Project Duration: August 2009 – July 2011

ARRA 604(b) Grant: \$70,000

Local Match: \$93,254



PROBLEM:

The Maine DEP has identified six streams in Bangor as impaired as a result of nonpoint source pollution from urban development. Bangor has completed three watershed management plans and will need to develop plans for the remaining three watersheds. Developing the plans and implementing all six of them will require additional funding. To expedite the implementation of retrofits, the City would like to fund 100 percent of the cost of construction of priority retrofits on private and public properties as well as in-stream and riparian recommendations that are listed in the watershed plans. Simultaneously, new state requirements for stormwater management and aging stormwater infrastructure are increasing the cost of providing services to the public. This project allowed City staff to investigate and take steps to prepare the necessary information that Bangor officials need to make important decisions about how to manage and fund water quality protection and stormwater management through a stormwater utility.

PROJECT DESCRIPTION:

With input from consultants and stakeholders, the City of Bangor identified and examined key components, complex issues, and concerns associated with forming and funding a stormwater utility. The project used focus groups to help develop an outreach strategy. The City explored three distinct funding and administrative options. They developed white papers exploring such issues as credits, sidewalks and aprons, governance through the city or a separate entity, and the cost of implementing watershed plans. An impervious cover map was developed and the amount of imperviousness in different watersheds was calculated by land use.

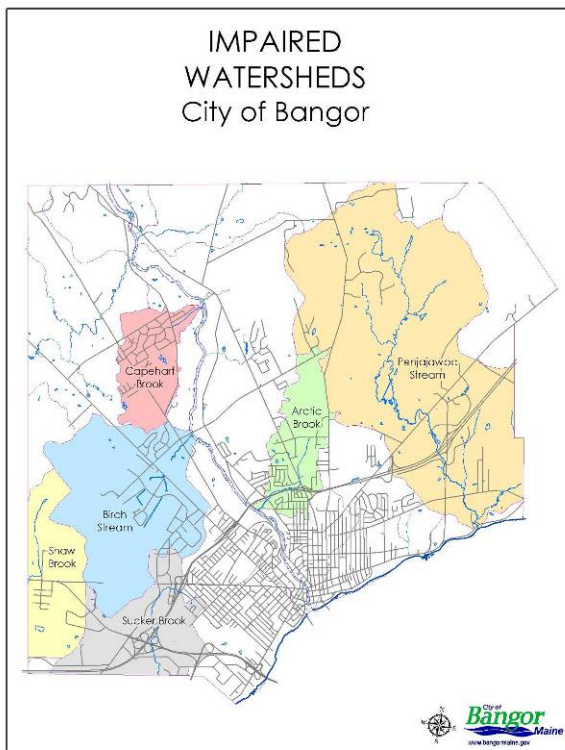
Throughout the process, City staff met with owners of large impervious areas, owners of multi-residential units, local stakeholder groups, and a citizen's advisory council; gave presentations to community groups; and posted information on their website. The project analyzed current spending on stormwater programs and developed an ideal budget and an organizational analysis. They found that tasks are currently carried out with a widely varying amount of funding from multiple departments and programs.



Stormwater Utility Citizen Review Panel

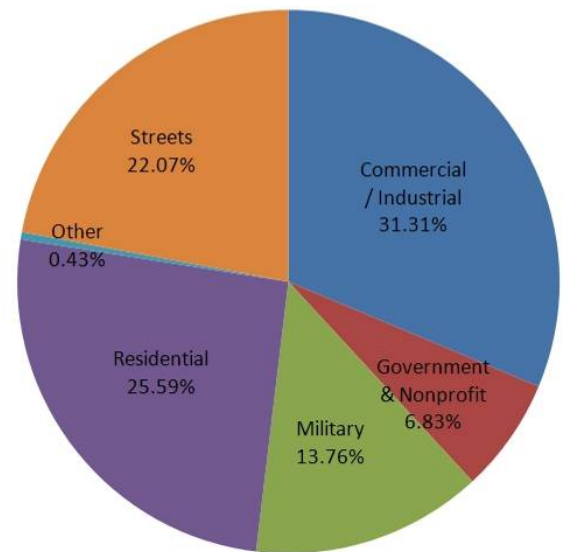
PROJECT OUTCOMES:

- The project developed and implemented a Public Outreach Plan, which included outreach tools such as PowerPoint presentations, a website, and an FAQ factsheet.
- A Rate Study and Budget/Cash Flow Model with a five and 10-year program funding strategy was developed.
- Governance and policy statements were summarized.
- Impervious cover maps were created, and an ERU (equivalent residential unit) was calculated.
- A master account file report that summarizes the total number of billing units, the top 50 rate payers and policy statement for billing exceptions. A rate ordinance was also developed.



PROJECT PARTNERS:

James W. Sewall Company
Packard Judd Kaye



Total Impervious Area:	161,397,122 SF
Total Land Area of Bangor:	959,711,825 SF
Percent Impervious:	16.8%

CONTACT INFORMATION:

Kathy Hoppe, Maine DEP – (207) 540-3134 kathy.m.hoppe@maine.gov

Wynne Guglielmo, City of Bangor – (207) 992-4255, wynne.guglielmo@bangormaine.gov

http://www.bangormaine.gov/index.php?id=2&sub_id=1327

Suggested Citation:

Maine Department of Environmental Protection (2012) “Nonpoint Source Management Program 2011 Annual Report,” Document # DEPLW-1237. Augusta: MDEP.