

2003

## Storm Water Phase II Implementation Costs and Funding Availability

Robert Patten

*Environmental Engineering & Remediation Inc.*

Kristie Rabasca

*Environmental Engineering & Remediation Inc.*

Follow this and additional works at: <https://digitalcommons.usm.maine.edu/cbep-presentations>

---

### Recommended Citation

Patten, R., & Rabasca, K. (2003). Storm Water Phase II Implementation Costs and Funding Availability. [Presentation slides]. Portland, ME: University of Southern Maine, Muskie School of Public Service, Casco Bay Estuary Partnership.

This Book is brought to you for free and open access by the Casco Bay Estuary Partnership (CBEP) at USM Digital Commons. It has been accepted for inclusion in Presentations by an authorized administrator of USM Digital Commons. For more information, please contact [jessica.c.hovey@maine.edu](mailto:jessica.c.hovey@maine.edu).

# Storm Water Phase II Implementation Costs and Funding Availability

Robert Patten, P.E.  
and  
Kristie Rabasca, P.E.

222 ST. JOHN STREET, SUITE 314  
PORTLAND, MAINE 04102  
PHONE: 207 828 1272  
FAX: 207 774 6907  
EERINC.COM

**EER** ENVIRONMENTAL  
ENGINEERING &  
REMEDIATION, INC.

# Outline

- 10 Min. Cost Summary (R. Patten)
- 20 Min. Funding (K. Rabasca)
- 10 Min. Questions/Answers

# EPA Storm Water Phase II

- Multi-Sector Industrial General Permit
  - Operating Landfills
  - Transfer Facilities (scrap metal recycling)
  - Wastewater Treatment Plants (>1 MGD)
- Maine Construction General Permit (>1 acre disturbance)
- Small Municipal Separate Storm Sewer Systems (MS4s)
  - Located in urbanized areas by US Census
  - 28 Communities in Maine

# MS4 General Permit Requirements

## ➤ Implement Six Minimum Control Measures

- Public Education and Outreach
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination (IDDE)
- Construction Site Runoff Control
- Post-Construction Storm Water Management
- Pollution Prevention/Good Housekeeping

# What Will it Cost?

## ➤ Phase I Communities

- City of San Diego's Think Blue Campaign  
\$400,000/year for Public Education
- City of Griffin, GA - \$55,000 to \$85,000
- EPA to be commissioning study on lessons learned in Phase I Program

# Well...What Will it Cost?

- EPA Estimates \$9.16 per household
  - City of 50,000 people = \$190,000/year
  - Town of 10,000 people = \$ 38,000/year
  - Town of 1,000 people = \$ 3,800/year

# Well.....What Will It Cost?!?!

➤ It Depends !?!?



# What Do I Do to Minimize Costs?

1. Pray the Program Just Goes Away
2. Lobby for David Ladd's Position to be Eliminated
3. Utilize or Modify Existing Programs
4. Utilize Local Non-profit Groups
5. Partner with Other MS4s
6. Obtain Grants to Help Defray Implementation Costs



# Funding

- Bond Issue Update
- Grants
  - State Grants
  - USEPA/Federal Grants
- State Revolving Loan Funds



# Funding - Grants

## ➤ States

- K-12 Educational
- Coastal Grants
- Non-Point Source (319) Grant
- Additional State Grants



## ➤ Federal

- Water Quality Cooperative Agreements
- Five Star Restoration Project

# Funding - Grants

## ➤ Partnering with Non-Profits

- Eligibility for Grants
- Watershed Surveys –
  - ID Storm water Issues
- Watershed Management Plan
- Watershed Restorations

## ➤ Partnering with MS4s

- Regionalization
- Economy of Scale

# K-12 Educator Grants

- \$1,000-\$2,000 per project
- Offered through State Environmental Departments (\$10-\$20k/year/state)
- Applies to Teachers Grades 6 through 12
- Preference to projects that partner with private land owners, corporations, communities

# K-12 Educator Grants

## ➤ Storm Water Application:

- Partner with Educators to develop service projects
  - Riparian buffer enhancement
  - Stream bank erosion repair
  - Stenciling

# Coastal Watershed Grants

- Maine Shore Stewards Priority Coastal Watershed
- Massachusetts Coastal ACEC Stewardship
- Massachusetts Transportation bond Grants – Coastal Pollutant Remediation
- New Hampshire Coastal Program
- New Hampshire Estuaries Program

# Coastal Watershed Grants

- Offered to Specific Coastal Communities/Watersheds
- Matches Required (25%-50%)
- Project Types
  - Watershed Survey
  - Watershed Management Plan
  - Watershed mapping
  - NPS pollution education
  - Citizen monitoring work





# Coastal Watershed Grants

## ➤ Storm Water Application:

- New Hampshire – IDDE Mapping
- Massachusetts – BMP Implementation from Storm Water source
- Maine – Watershed Management Plans



# Non-Point Source (319) Grants

- \$10,000-\$140,000 per project
- Offered through State Environmental Departments
- Applies to municipalities, non profits, public orgs
- Preference to priority watersheds/impaired waters (303d)
- 40% match required



# Non-Point Source (319) Grants

## Storm Water Application:

- Usable for FY 2003
- New Bill offered for remaining years
  - Watershed Surveys or Management Plans
  - Watershed Projects
    - Erosion control
    - Buffer enhancement

# Water Quality Cooperative Agreements

- \$10,000-\$500,000 per project
- Offered through USEPA
- Applies to non-profit organizations, municipalities, interstate orgs.
- Priority consideration to: “Compliance with Storm Water Phase II”

# Water Quality Cooperative Agreements

## ➤ Storm Water Application:

- “...non-traditional pollution problems in priority watersheds...”
- “Storm Water Phase II compliance”
- Demonstrations, surveys, studies, research, investigations (used to provide focus to overall program)
- National Interest
- Likely larger organizations – MMA, MDEP, MDOT

# Water Quality Cooperative Agreements

- Recent Storm Water Related Award
  - Center for Watershed Protection – Training
  - Assoc. State/Interstate Water Pollution Control – Improving General Permits to Address Wet Weather Problems

# Five Star Restoration

- \$5,000-\$10,000 per project
- Offered through NOAA/Nat'l Fish & Wildlife
- Targets partnerships of 5 parties
- Wetland, riparian or coastal habitat restoration
- Matches required

# Five Star Restoration

- Storm Water Application:
  - Public education/public participation benefits
- Recent Awards:
  - Casco Bay Estuary Project-Buffer Strip



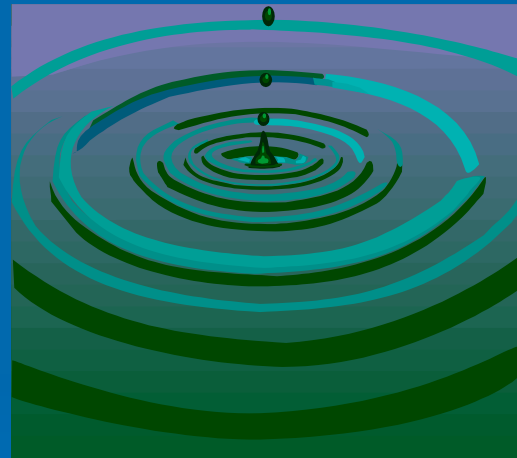


# Other Grant Opportunities

- Community Development Block Grant (thru DECD)
- MDEP/Maine Stream Team Listing
- Catalog of Funding Sources for Watershed Protection  
(<http://cfpub.epa.gov/fedfund/index.cfm>)
- New Hampshire DES Home Page – Grants/Funding  
(<http://www.des.state.nh.us>)

# State Revolving Loan Fund

- Low interest loan (2% below market rate)
- Targeting Water Pollution Control Activities
- Communities, non profits, homeowners, all eligible
- Fund 80% project cost (20% match min)
- Maine fully funded all requests



# State Revolving Loan Fund

## ➤ Storm Water Application

- Implementation of Watershed Mgt Plans
- Repair Storm Water structures
- Installation of Storm Water treatment systems



# Conclusions

- Partnering/Cooperative Efforts are the Key to Leveraging municipal expenditures on Storm Water Phase II
- No Free Money – but Great Leverage!

