New Hampshire’s
NONPOINT SOURCE MANAGEMENT PROGRAM

Draft Update
2014 NH Water and Watershed Conference

Eric Williams
Jillian McCarthy
Overarching Goal

To PROTECT and RESTORE

waters and watersheds from NPS pollution.
Who is responsible for implementing the plan?
Purpose of NPS Program Update

UPDATE

SET PROGRAM GOALS

CREATE TIMETABLE

New Hampshire Nonpoint Source Management Plan

OUTREACH

PLANNING

IMPLEMENTATION

Project 1
Project 2
Project 3
Project 4

YR 1  YR 2  YR 3  YR 4  YR 5
What’s in the Plan?

**INTRODUCTION**

**NH’s WATERSHED MANAGEMENT FRAMEWORK**

**WATERSHED PRIORITIZATION IN NH**

**NH’s NPS PROGRAM**
- Partnerships
- 319 Program
- Statewide Programs (by NPS Category)
NH’s Watershed Management Framework

WATER QUALITY STANDARDS
- Designated Uses
- Water Quality Criteria
- Antidegradation

MONITORING
- Trend
- Probabalistic
- Synoptic

WATER QUALITY ASSESSMENT
- 305(b)/303(d)

DEVELOP PLAN TO PROTECT OR RESTORE
- TMDL’s or Watershed Plans

IMPLEMENT PLANS
- Best Management Practices
- Ordinances
- Conservation
- Other
### Watershed Prioritization

<table>
<thead>
<tr>
<th>Ecological Metrics</th>
<th>R</th>
<th>P</th>
<th>Stressor Metrics</th>
<th>R</th>
<th>P</th>
<th>Social Metrics</th>
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<th>P</th>
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<tbody>
<tr>
<td>Watershed size</td>
<td>X</td>
<td></td>
<td>Watershed aquatic barriers</td>
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<td>Watershed size</td>
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<td>Maintenance of % natural cover</td>
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<td>Number of 303(d) listed causes</td>
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<td>Watershed %</td>
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<td>Watershed %</td>
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<tr>
<td>Instate area</td>
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<td>Stream miles unimpaired</td>
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<td>Lake acres unimpaired</td>
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<td></td>
<td>Pasture</td>
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<td>Watershed %</td>
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<td>Active River Area %</td>
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</table>

* Strahler Stream Order ≤ 3° was not included in the ecological metrics for the lakes restoration priority assessment.

“R” – designates metrics used for recovery potential analysis

“P” – designates metrics used for protection potential analysis
Proposed NH Priorities

- TMDL beaches
- Baseline screening results
- Estuaries
- Volunteer programs
- Watershed plans
- Barrier removal
Watershed Prioritization Goal

The projects with the greatest likelihood for successful restoration or protection are selected to receive grant funding.

Example Objectives:

• Diverse stakeholders are aware of and apply for 319 Watershed Assistance Grants.
• Existing Watershed Based Plans are fully implemented.
• Local capacity for successful restoration and protection projects exists in priority watersheds.
• Watershed implementation efforts result in measureable water quality benefits.
Major NPS Categories

Statewide Programs

Agriculture

Hydrologic & Habitat Modification

Subsurface Systems

Chlorides & Road Maintenance

Landscape & Turf Management

Runoff from Developed Lands
Minor NPS Categories

- Timber Harvesting
- Marinas & Boating
- Land Disposal Biosolids
Update Process

1. NHDES draft concept paper
2. Assembled & met with "expert groups"
3. Draft chapter based on "expert group" input
4. Draft chapter reviewed by "expert group" & incorporated into plan
Agriculture Goal

WELL-MANAGED AGRICULTURAL LAND IS A WATER QUALITY ASSET.

EXAMPLE OBJECTIVE:
Promote implementation of agricultural best management practices.

EXAMPLE MILESTONE:
Promote working buffers through NRCS to raise cash crops in buffer areas.
Chloride & Road Maintenance Goal

REDUCE SALT LOADING WHILE MAINTAINING CURRENT LEVEL OF SERVICE ON ROADS, SIDEWALKS & PARKING LOTS.

EXAMPLE OBJECTIVE:
Identify priority watersheds for development of salt reduction watershed based plans.

EXAMPLE MILESTONE:
Develop two salt reduction plans.
Hydrologic & Habitat Modification Goal

GEOMORPHIC STREAM, BRIDGE, AND CULVERT ASSESSMENTS PROVIDE A CRITICAL PLANNING TOOL FOR FLOOD PROTECTION AND DEVELOPMENT.

EXAMPLE OBJECTIVE:
Identify new fluvial erosion hazard (FEH) zones in New Hampshire.

EXAMPLE MILESTONE:
Continue FEH assessments on NH’s rivers at a rate of 1 new site/year.
Landscape & Turf Management Goal

NUTRIENTS FROM TURF AND LANDSCAPING PRACTICES DO NOT RUN OFF OR LEACH TO SURFACE OR GROUNDWATER.

EXAMPLE OBJECTIVE:
NPS partners know and promote new fertilizer packaging law (HB393), which requires nitrogen limitations by application rate on retail fertilizer bags.

EXAMPLE MILESTONE:
Work with fertilizer retailers on additional outreach about how to calibrate spreaders.
Runoff From Developed Lands Goals

STORMWATER FROM DEVELOPED LANDS IS MANAGED IN SUCH A WAY THAT WATER QUALITY IS NOT DEGRADED.

EXAMPLE OBJECTIVE:
NH residents understand the connection between land use and water quality and have access to resources to help manage stormwater on their properties.

EXAMPLE MILESTONE:
Provide resources and technical assistance to local organizations interested in the Soak up the Rain NH program.
**Subsurface Systems Goal**

PROVIDE INCREASED OPPORTUNITIES FOR SEPTIC SYSTEM REPLACEMENT AND DEVELOPMENT OF COMMUNITY SYSTEMS.

**EXAMPLE OBJECTIVE:**
Continue making State Revolving Fund (SRF) loans and State Aid Grants available for septic systems.

**EXAMPLE MILESTONE:**
Market SRF funding to potential applicants.
<table>
<thead>
<tr>
<th>Year/Month(s)</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>DES worked with several focus groups to develop a Draft NPS Management Plan as a “strawman” for further input by stakeholders.</td>
</tr>
<tr>
<td>9/30/2013</td>
<td>Draft Plan submitted to EPA for comment.</td>
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<tr>
<td>5/31/2014</td>
<td>Stakeholder comments due to DES.</td>
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<tr>
<td>9/30/2014</td>
<td>Deadline to submit final Plan to EPA.</td>
</tr>
</tbody>
</table>
Questions?

Discussion?

Thoughts?

Submit written comments to Jillian McCarthy

jillian.mccarthy@des.nh.gov

by May 31, 2014