BSC GROUP

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Nature-Based Solutions Implementation Resource Guide

Nature-based Solution (NbS): Wetland Management Restoration

Project Number per matrix: **(4)**

PREREQUISITES

- Coordinate restoration with funder (e.g., MA MVP), if applicable, and Town master plan.
- Obtain Town or City Conservation Commission/landowner approval.
- Obtain necessary regulatory permits from local, state, and federal regulators and funder approvals.

RECOMMENDED IMPLEMENTATION STEPS

- **Project Planning and Administration**
  - Evaluate existing native tree species for effective naturalization in the forest area.
  - Assess potential erosion or habitat disruption impacts.
  - Assess bordering threats such as the proximity of established invasive seed sources.
  - Assess opportunities for coordinated habitat enhancement, flood storage, and stormwater controls.
  - Ensure clear communication and understanding of maintenance personnel.
- **NbS Installation**
  - Install erosion control measures as needed.
  - Conduct site preparation, including selective removal of invasive vegetation within the forest.
  - Plant selected native tree species, along with mulching, watering, and weeding during the maintenance period.
  - Minimize soil disruption and limit excavation. Conduct only what is necessary for restoration plantings.
- **Maintenance**
  - Support 2-year establishment period to include biannual removal of invasive plants and weeds, annual replacement of failed plantings, and watering as needed to naturalize plantings.
  - Maintain stability through critical mass, solar exposure, soil assessment, amendment, and coordinated invasive control.

NATURE-BASED SOLUTION SPECS

- Typical size 20,000 sq.ft.
- Minimum size 3,000 sq. ft.

BUDGET ESTIMATE

- Typical project budget (order of magnitude): $1,500-$6,000
- Use the BSC Group Nature-based Solutions budget tool to develop more detailed concept budgets

SCHEDULE ESTIMATE

- 1 year of preparation
- 2 days of construction per unit
- 2-years' establishment period
- Regular annual maintenance