BSC GROUP

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Nature-Based Solutions Implementation Resource Guide

Nature-based Solution (NbS): Forest Management Restoration

Project Number per matrix: **(3)**

PREREQUISITES

- Coordinate restoration with funder (e.g., MA MVP), if applicable, and Town master plan.
- Obtain Town or City Conservation Commission/landowner approval.
- Obtain appropriate permits.

RECOMMENDED IMPLEMENTATION STEPS

- **Project Planning and Administration**
  - 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.
  - Evaluate existing native tree species for effective naturalization in the forest area.
- **NbS Installation**
  - Conduct site preparation, including selective removal of invasive vegetation within the forest.
  - Install erosion control measures as needed to prevent soil erosion.
  - 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.
  - Inoculate duff layer and old-growth habitat features.
- **Maintenance**
  - Maintain stability through critical mass and coordinated invasive control.
  - Support 2-year establishment period, including bi-annual removal of invasive plants and weeds, annual replacement of failed plantings, and water as needed to facilitate the naturalization of tree plantings.:

NATURE-BASED SOLUTION SPECS

- Typical project size 5 acres.
- Minimum size 3,000 sq. ft.

BUDGET ESTIMATE

- Typical project Order of Magnitude Budget: $30,000-$80,000
- Use the BSC Group Nature-based Solutions budget tool to develop more detailed concept budgets

SCHEDULE ESTIMATE

- 1 year of preparation
- 1 day of installation per minimum size unit
- 2 year establishment period
- Ongoing once-annual maintenance