BSC GROUP

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Nature-Based Solutions Implementation Resource Guide

Nature-based Solution (NbS): Invasive Species Management

Project Number per matrix: **58**

PREREQUISITES

- Massachusetts licensed pesticide applicator.
- Coordinate restoration with MVP.
- Approval by the Conservation Commission and/or landowner.
- Obtain appropriate permits.

RECOMMENDED IMPLEMENTATION STEPS

- **Project Planning and Administration**
  - Coordinate efforts to pair invasive control with public amenity features to ensure community investment, visibility, and assessment of best practices.
  - Coordinate the location of invasive control to achieve stability through critical mass.
  - Assess bordering threats such as the proximity of established invasive seed sources.
  - Assess opportunities for coordinated habitat enhancement and educational resources.
  - Ensure project budgets and contracts with private companies include sufficient retainage for maintenance and establishment period and coordination costs for oversight.

- **NbS Installation**
  - Planting of supplemental native species through volunteer efforts or private contractors. Methods may include but are not limited to the following: live-stake of armored banks, live-stake of wetland, live fascines for bank stabilization/revegetation, plug/container planting, conservation seeding, seeded compost top-dress, seeded wattle, use of tree trunks and root masses.
  - Installation of erosion control measures where required.
  - Limit intentional soil disruption or significant excavation beyond that necessary to install restoration plantings.
  - Prepare the planting site with invasive vegetation removal or treatment either with herbicide and/or mechanically.

- **Maintenance**
  - Follow up: maintenance period 60 days. Establishment period two (2) years. Maintenance period to include watering twice weekly, hand weeding & replacement of failed plantings. Establishment period to include biannual removal of invasive plants and weeds, annual replacement of failed plantings, and watering as needed to naturalize plantings.

NATURE-BASED SOLUTION SPECS

- Typical project size: 3,000 sq. ft.
- Minimum/maximum size: 1,000 sq. ft.

BUDGET ESTIMATE

- Typical project budget (order of magnitude): $5,000 - $20,000
- Use the BSC Group Nature-based Solutions budget tool to develop more detailed concept budgets

SCHEDULE ESTIMATE

- 1 day of construction per unit.
- 2 years of establishment, permanent, seasonal maintenance