Inspiring Action, Creating Resilience
Restore America’s Estuaries/ The Coastal Society
2014 Summit

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Overview

• Vision
• Ecosystem management
• Endowment Fund management
Commencement Bay
Stewardship Collaborative

Primary Goal: sustain the integrity of ecosystem function for species of concern into perpetuity
The Importance of Maintaining Long-term Stewardship

**IDEAL**

- $ Investment
- 5,000
- 1,000

**TYPICAL**

- $ Investment
- 5,000
- 1,000

**Years**

- 10
- 20
- 30
- 300

**Habitat Value**

- Full Function
- Degraded

*Varies*
Commencement Bay Stewardship Collaborative
NRDA Restoration Sites

Legend
- NRDA Restoration Sites

NRDA Partners
- National Oceanic and Atmospheric Administration
- U.S. Department of the Interior
- U.S. Fish and Wildlife Service
- Bureau of Indian Affairs
- Washington State Department of Ecology
- Washington State Department of Natural Resources
- Washington State Department of Fish and Wildlife
- Puyallup Tribe of Indians
- Muckleshoot Indian Tribe
- EarthCorps; and
- Citizens for a Healthy Bay

LOCATOR MAP
Old Soldiers Home (Orting)
Stewardship Framework
Stewardship Framework

- Current site conditions
- Monitoring protocols
- Ecosystem management plan
- Individual site plans
- Database and online mapping tool
Database

Catalog Tree

Noxious_Weeds

<table>
<thead>
<tr>
<th>Site_Name</th>
<th>Species</th>
<th>Scientific</th>
<th>Common</th>
<th>Invasive_CB</th>
<th>Pierce_Co</th>
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<tbody>
<tr>
<td>Hauff</td>
<td>case</td>
<td>Calystegia sepium</td>
<td>hedge false bindweed</td>
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<tr>
<td>Hauff</td>
<td>ciar</td>
<td>Cirsium arvense</td>
<td>Canada thistle</td>
<td>3</td>
<td>C</td>
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<tr>
<td>Hauff</td>
<td>civu</td>
<td>Cirsium vulgare</td>
<td>bull thistle</td>
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<td>C</td>
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<tr>
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<td>CRMO</td>
<td>Crataegus monogyna</td>
<td>oneseed hawthorn</td>
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<tr>
<td>Hauff</td>
<td>cysc</td>
<td>Cytisus scoparius</td>
<td>scotch broom</td>
<td>2</td>
<td>C</td>
</tr>
<tr>
<td>Hauff</td>
<td>ILAQ</td>
<td>Ilex aquifolium</td>
<td>English holly</td>
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<tr>
<td>Hauff</td>
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<td>Iris pseudacorus</td>
<td>yellow flag iris</td>
<td>2</td>
<td>C</td>
</tr>
<tr>
<td>Hauff</td>
<td>PHAR</td>
<td>Phalaris arundinacea</td>
<td>reed canarygrass</td>
<td>4</td>
<td>C</td>
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<tr>
<td>Hauff</td>
<td>rare</td>
<td>Ranunculus repens</td>
<td>creeping buttercup</td>
<td>4</td>
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<tr>
<td>Hauff</td>
<td>rops</td>
<td>Robinia pseudoacacia</td>
<td>black locust</td>
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<tr>
<td>Hauff</td>
<td>RUBI</td>
<td>Rubus bifrons</td>
<td>Himalayan blackberry</td>
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<td>C</td>
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<tr>
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<td>seja</td>
<td>Senecio jacobae</td>
<td>tansy ragwort</td>
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<td>B</td>
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<tr>
<td>Jordan</td>
<td>buda</td>
<td>Buddleja davidii</td>
<td>butterflybush</td>
<td>2</td>
<td>B (non)</td>
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</tbody>
</table>
Functional Habitat Types for: Swan Creek

Habitat Type: Riparian - Forested

Area:
1.12 Acres, 48,736 Square Feet
Site Maps

Mowitch - Functional Habitat Types

- **Functional Habitats**: 2.7 Acres
  - Backshore (0.13 Ac)
  - Emergent Marsh (0.98 Ac)
  - Riparian Forest (0.73 Ac)
  - Mudflat (0.86 Ac)

Legend
- Site Boundary

Commencement Bay Stewardship Collaborative

[Map of functional habitat types with legend and scale]
Individual Site Plans

- Site description
- Site history and construction
- Current conditions
- Specific management issues
- Short, mid, long range site goals
- Site map
- Plant species list

Site Management Plan- Hauff
Ecosystem Management Plan
Monitoring Strategy

- Biannual qualitative
- Quantitative
  - Water temperature
  - Greenline Surveys
  - Prey richness/abundance
Adaptive Management
Site Maintenance
Stewardship

- Neighboring landowners
- Volunteer events
- Community stewards
- Citizen scientists
Communication
EarthCorps is leading a new experiment in community-based restoration taking place in the coastal area and surrounding watersheds of Commencement Bay, in Tacoma, Washington.

The highly polluted Commencement Bay was one of the top ten Superfund sites in the United States. Over the past 30 years, this area has been transformed from one of the most polluted spots in the country to one of the brightest spots of hope for environmental restoration. Now it is a national model for recovery, where vibrant populations of birds and fish thrive alongside once heavily-polluted industrial areas.

In 2012, the Commencement Bay Natural Resources Damages Assessment (NRDA) Trustees selected EarthCorps to develop and oversee a 300-year plan for the protection and stewardship of the 17 sites that have been restored in the area. Through this partnership, EarthCorps is charged with the long-term stewardship of the sites, community engagement, and fiscal management of the project.
Habitat Outline: Sha Dadx

Habitat Information
Habitat Type: Riparian - Scrub-Shrub

Original Type: Active Channel Margin
Note: Derived from NOAA KML file where applicable.

Area:
2.20 Acres
96,030 Square Feet

Inventory Report

Carkeek Park
Site: 185

Native Tree Regeneration

Target Forest Type: Riparian Forest
Phase: 3 (Maintenance)
Inventory Date: 29-Jun-09
Acres: 2.0

Canopy Cover: 95%
Shade-tolerant plantings recommended

Recommended Actions
Continue Monitoring

Native Shrubs

Additional Shrub Species Needed

Native Groundlayer

Additional Groundcover Species

Invasive Species

Groundlayer: 10%
Contact Seattle Parks for tree removal

Continue Monitoring

Groundlayer Invasives should be removed
Commencement Bay Stewardship Collaborative Fund
Endowment Fund Management

- Investment Management
- Leverage
- Contingency
Annual Stewardship Budget

- Project Administration and Management
- Grant Writing
- Community Outreach
- Monitoring
- Communication
- Site Management
- Contingency Fund
Annual Stewardship Budget

- Maintenance: 60%
- Community Outreach: 14%
- Project Admin: 8%
- Communication: 2%
- Monitoring: 9%
- Contingency Fund: 5%
- Grant Writing: 2%

Total: 100%
Thank You

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