

Natural Resources Program 2016/17 Progress Report

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October 18, 2017

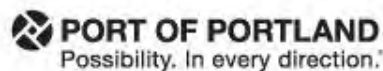


PDX COMMUNITY ADVISORY COMMITTEE

CHARTING A COURSE FOR PDX

Overview

- Program Background
- PIC Wetland Enhancement Update
- Government Island Grassland Mitigation Progress
- 2016 & 2017 Slough Enhancement & Tree Canopy Projects Status
- Urban Tree Canopy 2017 Projects Update
- 2018 Slough Enhancement Recommendation
- CAC Voting: Do you support the Project Recommendations?



Airport Futures Natural Resources IGA

- Enhancements to PIC Wetland
- Phased grassland mitigation of 300 acres on Government Island
- Enhancements to the Columbia Slough watershed
- Enhancements to the urban tree canopy in Columbia Slough watershed



PIC Wetland Enhancement

- Two phases of native plantings were completed in the wetlands in 2013 and 2014; 2,635 woody plants were installed on 6.2 acres
- Since 2014 ongoing maintenance including mowing, herbicide treatment and replanting of an additional 7,500 plants and native seed
- Northwest Youth Corps, Girls Inc. team has been helping to remove invasive species and install bee blocks



Port Mitigation for Upland Grassland and Habitat



Government Island Grassland Mitigation Phases



Government Island – Progress To Date

- Draft Planning Document Complete – September 2011
- Site Specific Mitigation Plan (first 50 acres) – June 2012
- On-site work – began Spring 2012
- 2012, 2013, 2014, and 2015 Site Prep, Monitoring and Annual Reports
- 2015 Fall Seeding
- 2016 and 2017 Monitoring, Maintenance and Adaptive Management



Government Island Grassland – 2017 Activity

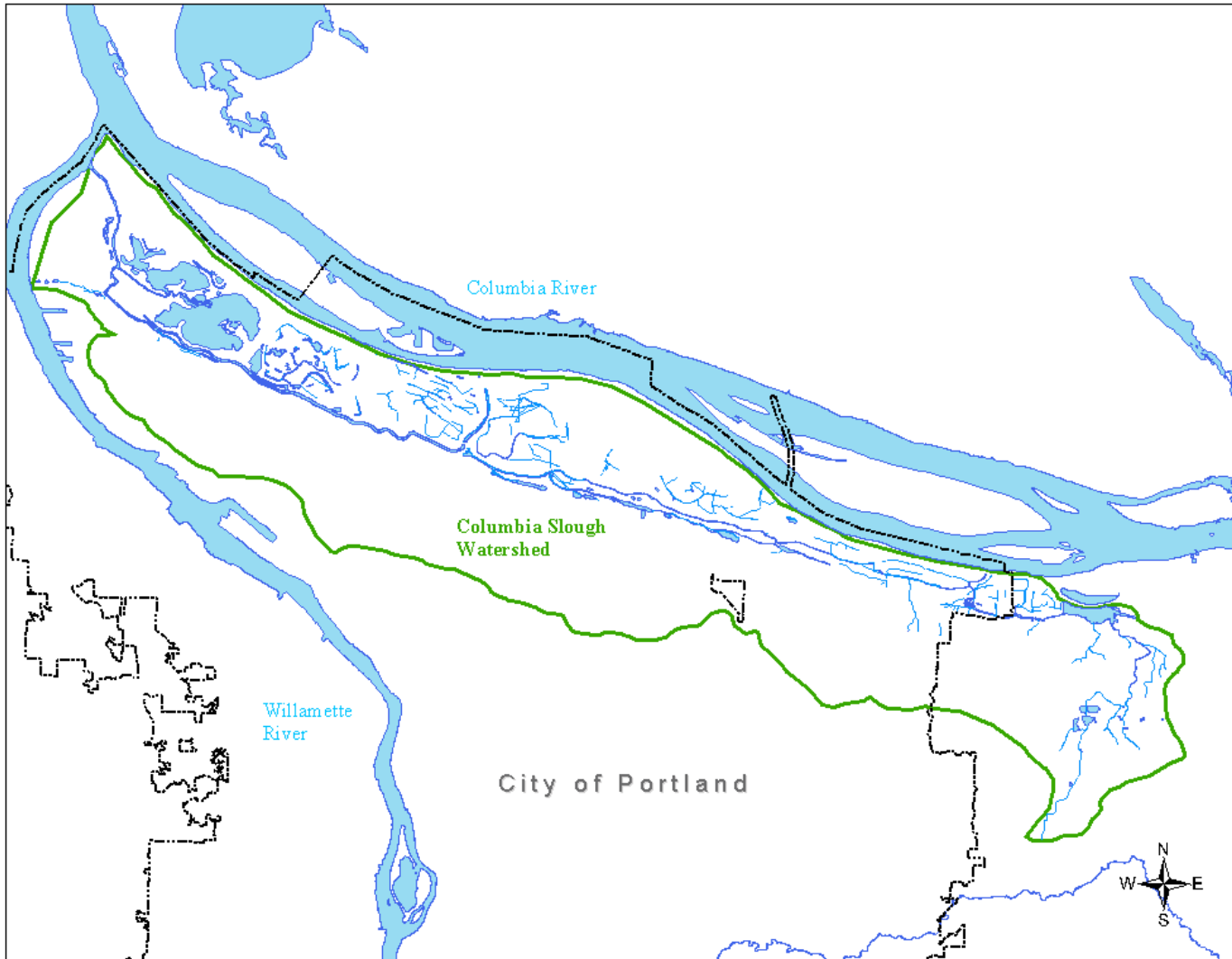
- Monthly Site Visits
- Assessment of Flood Impacts to Site
- Vegetation, Bird and Pollinator Monitoring
- Herbicide Treatments
- Buffer Enhancement (blackberry removal, herbicide treatment and planting)
- Data analysis and reporting will occur this fall/winter



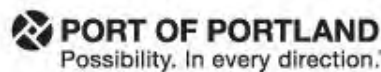
Government Island Grassland Site Flooding (photo from April 2017)



The Columbia Slough Watershed



Tree Canopy and Slough Enhancement Projects



Enhancements to Columbia Slough Watershed

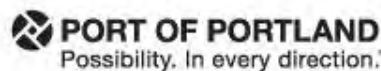
\$30,000 per year for Slough Enhancements (25 years)

- 2012 – Cully Park North Slope Restoration (Verde) - \$30,000
- 2013 – Elrod Slough Restoration (MCDD) - \$30,900
- 2014 – Whitaker Ponds Turtle Habitat Enhancement (CSWC) - \$7,000
- 2015 – Buffalo Slough Turtle Habitat Enhancement (Port of Portland) - \$18,329 (committed to spend \$45,000 but final project cost was significantly underbudget)
- 2016 – Better Beaver Behavior and Main Channel Benches (CSWC) - \$46,363
- 2017 – Vegetation Maintenance (CSWC) - \$34,778
- Total Commitment to date: \$167,370



Slough Enhancement Funding to date

Year	Slough Enhancement Project	Airport Futures Amount Authorized	Amount Remaining from Previous Years	Total Amount Available	Amount Spent	Amount Remaining for Following Year
2011/2012	Cully Community Park North Slope Restoration	\$30,000	\$0	\$30,000	\$30,000	\$0
2012/2013	MCDD Elrod Slough Restoration	\$30,900	\$0	\$30,900	\$30,900	\$0
2013/2014	CSWC Whitaker Ponds Turtle Enhancement Project	\$31,827	\$0	\$31,827	\$7,000	\$24,827
2014/2015	Port Buffalo Slough Turtle Enhancement Project	\$32,782	\$24,827	\$57,609	\$18,329	\$39,280
2015/2016	Better Beaver Behavior and Main Stem Bench and Island Planting Project	\$33,765	\$39,280	\$73,045	\$46,363	\$26,682
2016/2017	CSWC Vegetation Maintenance	\$34,778	\$26,682	\$61,461	\$34,778	\$26,683
2017/2018	TBD	\$35,822	\$26,683	\$62,505		



2016 & 2017 Project Updates

Columbia Slough Watershed Council

7040 NE 47th Ave Portland, OR 97218 503.981.1132 www.columbiaslough.org



Main Channel Benches

PROJECT SUMMARY:

Little emergent marsh habitat is available along the main slough, primarily due to the steep banks and narrow channel along most of the project area. This project proposes to paddle the slough to access the benches and islands while removing invasive aquatic and riparian species and plant the benches with native wetland species.

TIMELINE	SUMMER 2016	CSWC staff reconnaissance trips along the main channel of the Middle Slough.
	FALL 2016	Documented and prioritized contiguous stretches for treatment and planting. Ordered native plant materials and contracted with Northwest Youth Corp.
	SPRING 2017	Established photo monitoring points and collected baseline site data. Conducted outreach to properties along the high priority stretch of channel. Northwest Youth Corp: Removed and disposed 200 cubic feet of yellow flag iris along 1/2 mile stretch of channel. Planted 661 native plants on 6 different bench sites. April 29th: CSWC hosted a planting by boat Stewardship Saturday with the Oregon Zoo Eco-team. Planted 588 native plants on 5 different benches.
	SUMMER/FALL 2017	Post-planting photo and survivorship monitoring. Two follow-up iris treatments by Verde. Live willow staking along sections of the channel (To be completed).



To protect and enhance the Columbia Slough and its watershed through community engagement, education, and restoration

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Better Beaver Behavior

PROJECT SUMMARY:

A 2 year project to continue our Better Beaver Behavior program by revisiting past caging sites, assessing success of previous protocol, creating/adjusting protocol for identifying trees to be caged, and installing beaver cages at priority sites.

TIMELINE	SUMMER 2016	Assessed sites for potential revisits and new sites for caging.
	FALL 2016	NE Alderwood property at NE 92nd Ave: 63 cages installed (MYC). NE 47th Ave and Cornfoot Rd: 36 cages installed/replaced (MYC).
	SPRING / SUMMER 2017	Whitaker Ponds: PDX Youth Builders installed/replaced 40 cages. Whitaker Ponds: Key Bank installed/replaced 26 cages. Buffalo Slough: NW Energy Efficiency Alliance installed/replaced 17 cages. NE Alderwood: McKinstry installed 60 cages.
	FALL 2017	Contract with Multnomah Youth Cooperative for four days of caging. Continue to cage trees with volunteer groups.



Vegetation Maintenance

TIMELINE	SPRING 2017	Develop a rapid vegetation assessment protocol. (Completed) Prioritize site revisits within Port geography. (Completed)
	SUMMER/FALL 2017	Implement protocol (Ongoing) Develop treatment plan and project timeline.
	WINTER / SPRING 2017	Schedule contractor for first treatment. Order native plant materials. Schedule Stewardship Saturdays for site.

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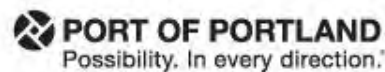
Enhancements to Urban Tree Canopy

- \$20,000 per year, for tree planting in the Columbia Slough Watershed (25 years)
- 2012 – Parkrose/Sumner planting (Friend of Trees) - \$20,000
- 2013 – Elrod Slough Tree planting (Friend of Trees) - \$20,600
- 2014/2015/2016 – Multi-year project with multiple project locations (Friends of Trees) - \$65,583
- 2017/2018/2019 – Multi-year project, various locations (Friends of Trees) - \$71,644
 - Neighborhood tree plantings and natural area plantings
 - Emphasis on Impacted Neighborhoods and Social Equity
- Total Commitment: \$177,847 (\$129,368 spent to date)



Canopy Enhancement Funding to date

Year	Canopy Enhancement Project	Amount Spent
2011/2012	Friends of Trees - Parkrose Sumner Transit Center	\$20,000
2012/2013	Friends of Trees - Elrod Slough	\$20,600
2013/2014	Friends of Trees - Children's Arboretum and Neighborhood Plantings	\$21,218
2014/2015	Friends of Trees - Children's Arboretum and Neighborhood Plantings	\$21,855
2015/2016	Friends of Trees - Neighborhood plantings, Children's Arboretum, and I-205 Greenspace	\$22,510
2016/2017	Friends of Trees – multiple locations	\$23,185
2017/2018	Friends of Trees – multiple locations	\$23,881



Urban Tree Canopy 2017 Projects

Columbia Children's Arboretum Revitalization Project

- Planting Event - January 21, 2017
 - 40 volunteers
 - 330 native trees
- Tree Care Event – April 15, 2017
 - 68 volunteers



17



25

Urban Tree Canopy 2017 Projects

Neighborhood Tree Planting Projects

- SE Vancouver, November 19, 2016
 - 157 volunteers
 - 103 trees planted
- Piedmont and Woodlawn, January 28, 2017
 - 137 volunteers
 - 142 trees planted
- Concordia and Vernon, March 11, 2017
 - 100 volunteers
 - 125 trees planted



2018 Slough Enhancement and Tree Canopy Recommendation Outreach & Collaboration

Natural Resources Sub-Committee Members

- PDX CAC Members
 - Corrina Chase, Columbia Slough Watershed Council
 - Tony DeFalco, Verde
 - Micah Meskel, Audubon,
- Jennifer Devlin (BES) and Yoko Silk (Parks), City of Portland
- Matthew Lee, Columbia Slough Watershed Council
- Sunny Simpkins, Multnomah County Drainage District



PDX CAC Slough Enhancement Selection Criteria

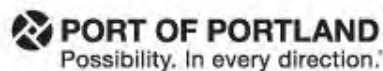
- Contribution to water quality and hydrologic improvement or habitat enhancement
- Community impact
- Social Equity (i.e. underserved youth, Minority, Women and Emerging Small Business Participation)
- Consistency with other plans and regulatory requirements
- Accomplishes multiple objectives (multiple partners)
- Match/leverage other resources
- Long-term commitment to maintenance and monitoring
- Airport compatibility (wildlife hazard management/Part 77)



2018 Slough Enhancement Project Proposals

- CSWC NE 33rd Riparian Corridor Enhancement - \$17,105
- MCDD – Columbia Slough Islands Restoration - \$21,430
- Audubon – Backyard Habitat Certification Program - \$5,000
- Verde – Cully Park - \$40,000

- Due to carry over of funding from previous years \$62,505 available to spend in FY2017/2018

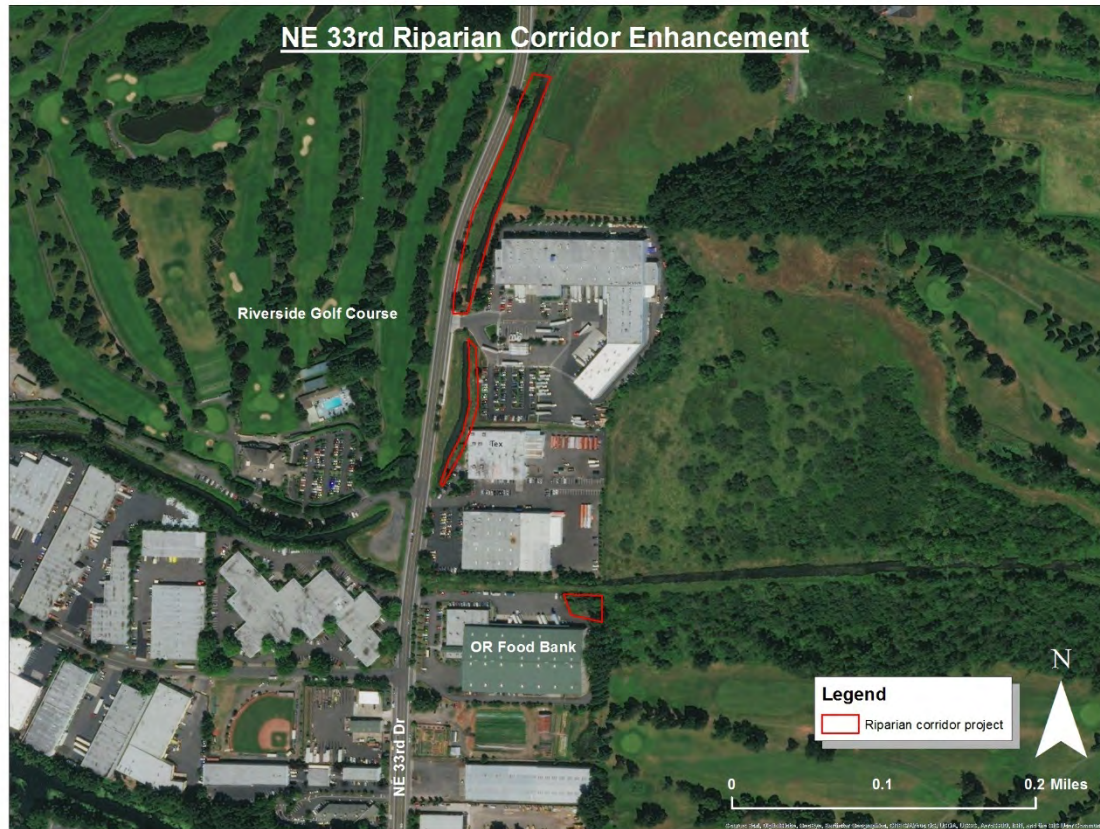


CSWC NE 33rd Riparian Corridor Enhancement Project

- Replace invasive vegetation with native shrub species along the ditches near NE 33rd and on the Oregon Food Bank property.
- The shrub species selected will grow taller than current vegetation thereby providing more shade to help cool water for aquatic species
- CSWC will organize a joint stewardship event with the Oregon Food Bank where the Food Bank's volunteer base will participate in the restoration work and the Watershed Council's volunteers will have an opportunity to learn and volunteer with the Food Bank.
- Project Cost \$17,105



CSWC NE 33rd Riparian Corridor Enhancement Project



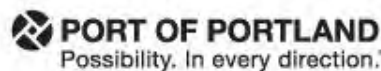
MCDD – Columbia Slough Islands Restoration

- Conduct weed control and establish native shrub and tree species on islands within the Middle Columbia Slough between NE 22nd Ave and the intersection of the Columbia Slough mainstem with the Whitaker Slough
- Ecological benefits:
 - native habitats will be further enhanced
 - sources of invasive plant propagules entering the water way will be reduced
 - erosion of the man-made islands for habitat enhancement will be reduced
 - canopy will form along the islands edges, shading out invasive macrophytes, and contributing to cooler water temperatures
- Project Cost \$21,430



MCDD – Columbia Slough Islands Restoration

Middle Columbia Slough Island Restoration



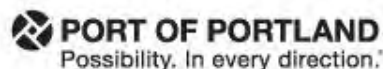
Audubon – Backyard Habitat Certification Program

- Project aims to bring the Backyard Habitat Certification Program (BHCP) at no cost to Woodlawn, Concordia, and Cully neighborhoods to work to improve their local environments.
- The BHCP program works to improve:
 - environmental health on the urban landscape by helping coach participants to create site plans
 - to remove invasive weeds
 - increase native plants
 - reduce pesticide use
 - manage stormwater onsite, and
 - build wildlife habitat.
- Project Costs \$5,000



Verde – Cully Park’s North Slope Habitat Restoration Project

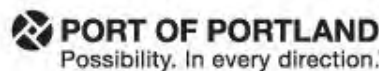
- Project to improve habitat and water quality by converting the site’s 3.6 acre North Slope into a native Columbia Gorge meadow landscape, with micro-topography that will create shaded/sunny zones, microclimates and small moisture variations, and with new infrastructure to manage stormwater and increase water infiltration to the site.
- Reduces the presence of non-native plant species, improves native prairie habitat conditions for pollinators and establishes a more diverse plant community structure.
- Project Costs \$40,000



2018 & 2019 Slough Enhancement CAC Natural Resources Sub-Committee Recommendation

FY17/18	\$62,505.00	available to spend
Projects		
MCDD - Island enhancement	\$10,850.00	(half of project funding requested for project)
CSWC - NE 33rd	\$6,655.00	(project funding requested for 2018)
Audubon - BHCP	\$5,000.00	(entire amount requested)
Verde - Cully Park	\$40,000.00	(entire amount requested)
	\$62,505.00	total
FY18/19	\$36,896.00	available to spend
Projects		
MCDD - Island enhancement	\$10,580.00	(half of project funding requested for project)
CSWC - NE 33rd	\$10,450.00	(project funding requested for 2019)
	\$21,030.00	total
	\$15,866.00	remaining

This is a two year funding request with additional funds available in FY18/19 that could be applied to an another project. It would entirely fund all four projects that requested funding this year.



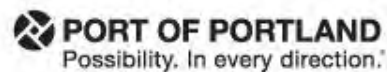
2018 Tree Canopy Proposal

- As approved in 2016 funding will be provided to Friends of Trees in 2017, 2018 & 2019 to implement the following:
 - Multi-Year Natural Area Plantings
 - Multi-Year Neighborhood Tree Plantings
 - Total Funding Commitment \$71,644
- 2018 Plantings will include:
 - Columbia Children’s Arboretum – 1/20/2018
 - Argay, Parkrose, Parkrose heights, Russel, Wilkes – 2/24/2018
 - Columbia Slough Natural Area – 3/10/2018
 - Beaumont-Wilshire, Cully, Roseway – 3/31/2018
 - \$23,881 will be provided to FOT for these plantings



Discussion Question:

Do you support the Natural Resource Program recommendation of the ad hoc committee?



PDX CAC Action

CAC Voting: Do you support the Natural Resource Program recommendations of the ad hoc committee?

- “1” Indicates full support for the proposal as stated.
- “2” Indicates agreement with the proposal as stated, but would prefer some modification to give it full support. Nevertheless, the member supports the consensus even if the modification is not supported by the group.
- “3” Indicates refusal to support the proposal as stated.

