

Snohomish County Marine Resources Committee

Jetty Island Clean up Final Report

2007



This report was funded in part through a cooperative agreement with the National Oceanic and Atmospheric Administration.

The views expressed herein are those of the author(s) and do not necessarily reflect the views of NOAA or any of its sub-agencies.

Jetty Island Clean up Final Report

On the 14th Annual United Way Day of Caring, September 15, 2006, over 230 volunteers took part in making Jetty Island a healthier habitat for people, fish and wildlife.

Employees from the following companies were in attendance: Snohomish County, Kimberly-Clark, Community Transit, Everett Naval Station, Microsoft, Edmonds Community College, Providence Hospital, Kite Boarders, Everett Community College-Ocean Research College Academy, and REI.

The event was sponsored by the Nearshore Cooperative, an alliance of Puget Sound conservation groups and organizations, that works together to expand stewardship and education in the Snohomish-Camano nearshore environment. The Nearshore Cooperative consists of the Snohomish County Marine Resources Committee, Stilly-Snohomish Fisheries Enhancement Task Force, WSU Beach Watchers / Skagit & Snohomish Counties, People for Puget Sound, Tulalip Tribes, Stillaguamish Tribe of Indians, Puget Sound Action Team, Port of Everett, City of Edmonds, Edmonds Community College, and Puget Soundkeeper Alliance.

Other supporters of the Day of Caring included the City of Everett Parks Department and Planning Department, Snohomish Conservation District, and Washington Conservation Corps-AmeriCorps program. Donations for the event were provided by Haggen Food and Pharmacy, Albertsons, Top Food and Drug, Lowes, Anthony's Homeport, Jerry's Surplus, Tully's Coffee, Starbucks, the Port of Everett, the City of Everett, QFC, Safeway, Coca-Cola, Alfy's Pizza, Pizza Hut and Urban Surf Kiteboarding. The donations were valued in total at approximately \$1750.00.

Throughout the Day of Caring, a total of 1,100 volunteer hours were logged. Volunteers removed invasive plants, such as Scot's broom and Himalayan blackberries, from the island. Students from Edmonds Community College gathered seeds from native species to cultivate and later plant in the areas cleared for them. Volunteers also aided in maintaining the island's trails and picked up litter along the shoreline. An estimated 3000 pounds of trash, including Styrofoam and large crates, was hauled off the island by the Port of Everett. This effort achieved a new one-day cleanup record, according to the Everett Herald which featured an article about the day in the Local News section the following day.

Additionally, volunteers from the Navy and WSU Beach Watchers / Skagit & Snohomish Counties located and prepped the entire island's worth of creosote-treated logs for later removal by the Washington State Department of Natural Resources. On October 10 and 11, 2006, the Department of Natural Resources (enabled by Northwest Straits Commission funding via the MRC) lifted the 70 tons of creosote-treated logs off of Jetty Island. As a result of a press release developed by MRC staff, Kiro 7 Eye-Witness News was present to cover the event. A photo of the helicopter removal was also included on the front page of the Everett Herald. The logs were transported to the Roosevelt Regional Landfill for proper disposal.

Jetty Island Creosote Debris Removal: Final Report

Site Overview

Jetty Island, a two-mile long, man-made island, was built in 1891 using dredge spoils to create a freshwater harbor in Everett. Dredge materials were placed in the mudflats of the Snohomish River estuary on what is now the west side of the island. Natural recruitment of vegetation initially resulted in development of island, marsh, and seagrass habitats. Plantings added tufted hairgrass, slough sedge, dune grasses, eelgrass, and others. Situated off the Everett waterfront, it is used year-round for recreation with ferry service provided to the Island during the summer months.

Biological Issues

Jetty Island provides habitat for marine mammals, salmonids and other fish species, and 45 species of birds, to name a few.

Project Partners

This project was coordinated jointly with the Snohomish County MRC, Snohomish Beach Watchers, Port of Everett, City of Everett Parks and Recreation, and the Still-Snohomish Fisheries Enhancement Task Force.

Site Survey

Two initial surveys were conducted in October 2005 using 20 citizen volunteers arranged by Chrys Bertolotto, WSU Beach Watchers, and Linda Lyshall, Snohomish County local liaison for the Puget Sound Action Team. The Port of Everett provided boat support to transport volunteers to the island.

Over 200 pieces of creosote and treated wood larger than 2 feet in length were tagged, accounting for almost 2/3 of the island's shoreline.

Removal Preparation

We were very fortunate to have the creosote project coincide with the United Way's Day of Caring volunteer event, which was coordinated by the Still-Snohomish Fisheries Enhancement Task Force. On September 15, 2006, 40 US Navy volunteers, led by Snohomish County Beach Watchers identified, gathered, and staged creosote debris in preparation for the helicopter removal.

The intensity of the fire season delayed the removal of the debris until mid-October, when crews would be available to assist with the helicopter operations. Surprisingly, despite some high tides and a couple of storm events, all of the debris remained in place.

Helicopter Removal

Hi Line Helicopters from Darrington were used to lift debris from the island to the Bayview property owned by the Port of Everett. The lift occurred on October 10th and 11th. Compared to other sites, materials from Jetty Island appeared to be heavier and more saturated. Many logs had to be cut on-site to meet the carrying capacity of 1,000 to 1,200 pounds. One log even needed to be cut into five sections.

Media

The Northwest Straits Commission and Snohomish MRC coordinated media relations for the removal. We received coverage in several local newspapers as well as television coverage on KIRO.

Tonnage

70 tons of treated wood debris was collected from the Island. Additionally, approximately 25 tires and other garbage was also removed. Frantz Construction of Freeland cut and loaded debris into the containers for transport. Two DNR fire employees also assisted in this task.

Rabanco (Regional Disposal Company) provided containers and transportation to the Roosevelt Special Waste Land Fill in Klickitat County, WA.

Budget and Expenses

See attached budget

Monitoring / Follow-Up Inventory

A follow-up inventory will be scheduled within one year to determine rates of re-accumulation.

Jetty Island Creosote Log Survey and Removal Photographs



Snohomish County MRC

Jetty Island Creosote Log Survey & Removal



Snohomish County MRC
Jetty Island Creosote Log Survey & Removal



Snohomish County MRC
Jetty Island Creosote Log Survey & Removal



Snohomish County MRC
Jetty Island Creosote Log Survey & Removal



Snohomish County MRC
Jetty Island Creosote Log Survey & Removal



JETTY ISLAND CREOSOTE REMOVAL 2006: PROJECT BUDGET											
	Amt	Unit	Rate	Snohomish Cty: MRC/WCC	WA DNR	Beach Watchers	Volunteers	City of Everett	Total		
Staffing				Cash	In-Kind	Cash	In-Kind	In-Kind		In-Kind	
WA DNR:											
Lisa Kaufman: Project scoping/Prep/On-site	62	hrs	\$ 20.00				\$ 1,240.00				
Recreation and Fire Crews		hrs				\$3,875.17	\$ -				
Travel						\$206.40					\$ 5,321.57
Snohomish County MRC (Stef Frenzl)		hrs			\$ 3,200.00						
Jacquie Gauthier	50	hrs	\$ 15.00		\$ 750.00						
City of Everett Park Ranger Assistance with Boat for Transport										\$405.00	
											\$ 4,355.00
Volunteers											
US Navy	240	hrs	\$ 15.00						\$ 3,600.00		
Beach Watchers	196	hrs	\$ 15.00					\$ 2,940.00			
TOTAL VOLUNTEER HOURS	436										\$ 6,540.00
STAFFING SUBTOTALS				\$ -	\$ 3,950.00	\$4,081.57	\$ 1,240.00	\$ 2,940.00	\$ 3,600.00	\$405.00	\$ 16,216.57
	Amt	Unit	Rate	Snohomish Cty: MRC/WCC	WA DNR	Beach Watchers	Volunteers	City of Everett	Total		
Expenses				Cash	In-Kind	Cash	In-Kind	In-Kind		In-Kind	
Hi Line Helicopters (7065)											
Flight Time	8.5	hrs	\$ 750.00			\$6,375.00					
Crew	2	day	\$ 250.00			\$500.00					
Service Truck	2	day	\$ 95.00			\$190.00					
											\$ 7,065.00
Frantz Construction											
Crane transport to/from Everett	1		\$ 892.41			\$892.41					
Crane time with operator	24	hrs	\$ 115.00			\$2,760.00					
Laborer (Michael)	28	hrs	\$ 25.00			\$700.00					
Chainsaw Rental	10	hrs	\$ 10.00			\$100.00					
Sales Tax @ 8.3%						\$369.55					
Ferry Fares	1		\$ 64.75			\$64.75					
											\$ 4,886.71
Regional Disposal Company (Rabanco)											
40 yd drop box	3		\$ 1,500.00			\$4,500.00					
Chassis Charge	3		\$ 10.00			\$30.00					
Refuse Tax (on \$4500)	1		\$ 162.00			\$162.00					
Sales Tax	1		\$ 2.64			\$2.64					

[illegible]

For immediate release – Thursday, October 5

Helicopter Removes Tons of Creosote Logs from Jetty Island

--

*Snohomish County Marine Resources Committee, WSU Beach Watchers and
Department of Natural Resources Remove toxic creosote from beach*

Three weeks ago over 230 volunteers gathered on Jetty Island as part of the 14th Annual United Way Day of Caring event to clean up the beach. Volunteers logged over 1,110 volunteer hours in one day to remove over 3,000 lbs of trash, cut back areas infested with invasive weeds, and stage over 600 pieces of creosote-treated timbers for removal by helicopter.

“Today we are finishing up the volunteers’ hard work by removing tons of creosote-treated logs from the beach at Jetty Island. This effort will help improve the Puget Sound’s water quality,” exclaims Dawn Lawrence, Snohomish County Marine Resources Committee Chair.

“We can accomplish more when we invite the community to help, and when local governments and agencies join hands,” explains Stef Frenzl, Marine Resource Steward at Snohomish County Public Works-Surface Water Management. “The volunteers, Snohomish County and the Marine Resources Committee, WSU Beach Watchers, Washington Department of Natural Resources, US Navy, Port of Everett, and the Northwest Straits Commission all working together made this project possible.”

Most creosote-treated materials come from broken pilings that have fallen from derelict docks and piers or railroad ties from nearby tracks. These materials, whether freshly washed up or buried in the intertidal for decades, are found to be leaching creosote on a continual basis. One cubic foot of creosote treated wood contains at least 20 pounds of creosote.

“Using helicopters to remove the creosote-treated logs is the most cost-efficient approach,” exclaims Lisa Kaufman, Restoration Manager at the Department of Natural Resources. “We’re able to remove all the creosote logs off the island in only a few hours.”

Jetty Island, a 2-mile-long, man-made island off the Everett waterfront, is owned by the Port of Everett. It was created with river sediment to provide harbor protection and a navigation channel for the Snohomish River. Since 1985, the Port of Everett has been partnering with the City of Everett Parks Department to use the island as a summer getaway for local beach-goers.

###

For additional information, please contact:

Stef Frenzl

Lead Staff, Snohomish County Marine Resources Committee
Snohomish County, Public Works- Surface Water Management
(425) 388-6466

stef.frenzl@co.snohomish.wa.us

Ginny Broadhurst

Marine Program Coordinator
Northwest Straits Commission
360-428-1064

broadhurst@nwstraits.org

Lisa Kaufman

Restoration Manager
Washington Department of Natural Resources
(360) 854-2808

lisa.kaufman@wadnr.gov