

Creating a Community Science Walk to Demonstrate a Cleaner and Greener NOAA-Sand Point Campus



WRIA 8 Steering Committee

19 March 2015

Building Community Partnerships

- Magnuson Neighborhoods
- City of Seattle (Parks, Utilities, Council)
- University of Washington
- King County
- WRIA 8
- Tribes
- PS Energy
- Schools
- PS Regional Council
- PS Partnership
- WSDOT
- Governor's Office
- Dept. Commerce(state)
- NWFSC-Montlake
- EPA
- Corps
- Elected Officials
- Community Leaders



Stormwater

Current condition

- All stormwater enters the Lake with NO treatment.
- Over 35 acres of impervious surfaces.
- Annual fine: \$175K
- 20-yr cost for NO action = \$7.3 million.



Status

- NWFSC tested sediments and effluent (NOAA-F funding).
- NOAA, EPA and other grant proposals written.



Shoreline

Current condition

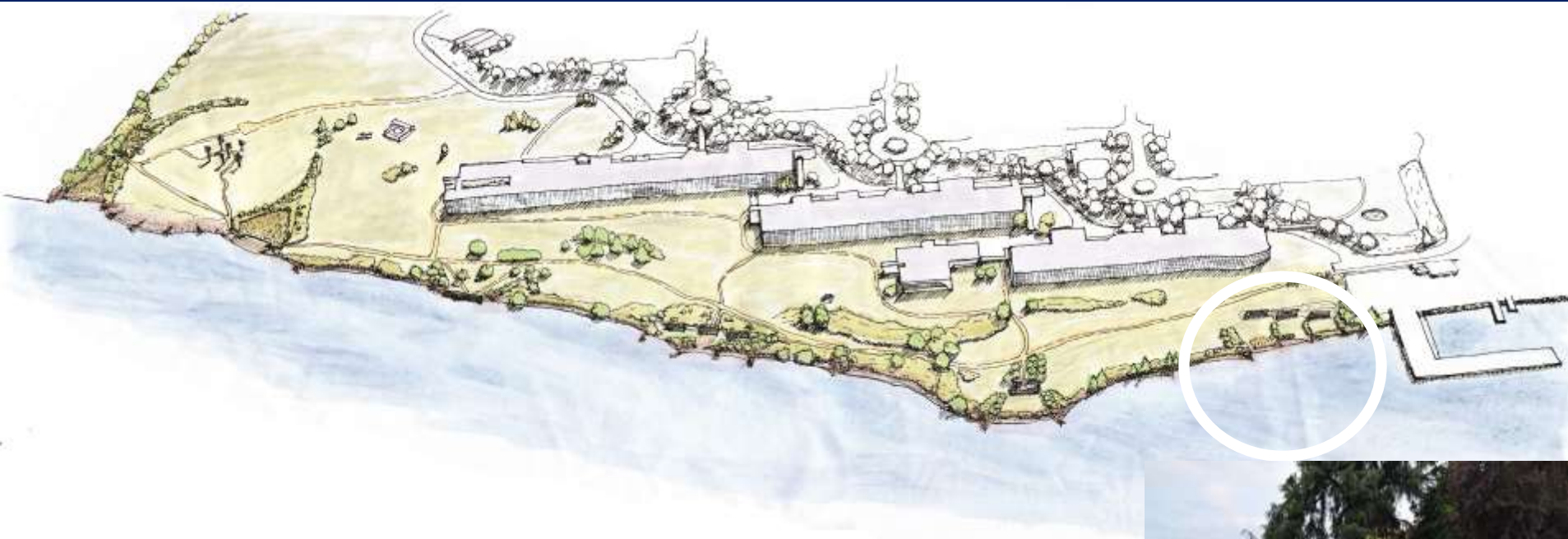
- 3,100' rip-rap armoring.
- Invasive species.
- Non-Compliance with ESA and state shoreline laws.

Status

- Volunteer restoration efforts.
- Schematic designs complete.
- Seeking funding partners to link with stormwater treatment.



Well-mannered Eco-yards



- Mimics backyard geometry
- Displays NOAA's Green Shoreline prototypes in manicured setting with stormwater treatments



Current condition

- Vintage buildings and systems
- Annual power costs:
\$538K (80 tons CO₂e)
-for 20 years: \$16 million
(1,600 tons CO₂e)
- Annual oil/gas costs:
\$204K (453 tons CO₂e)
-for 20 years: \$6.1 million.

Energy

Status

- Ameresco contract-
\$125K/year savings
- City Light \$25K rebate
- Seattle Community Solar proposal & EV stations
- GSA/vendor options



Summary of Benefits

- Remove stormwater pollutants and reduce stormwater fees: saves up to **\$7.3 million/20 yrs.**
- Reduce energy costs for buildings and vehicles: saves up to **\$24.6 million/20 years**—lowers GHG emissions over **15,000 tons of CO₂e/20 yrs.**
- **Total Savings: \$31.9 million over next 20 years.**
- Create shoreline habitat for fish and public.
- Create a demonstration of best practices for NOAA and the community-comply with laws.
- Enhance NOAA image and workforce morale.

How Can WRIA 8 Help?

1. Support funding requests to develop and implement the projects and transfer lessons-learned across the Region.
2. Provide NOAA with technical review of project designs, consistent with WRIA 8 Green Shoreline guidance.
3. Encourage elected officials, staff, contractors and local citizens to visit the site to help them support similar efforts in their community.

For additional information contact:

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