Community Forum #3: Environment and Ecology
February 27, 2012
WATERFRONT AS A MODEL AND CATALYST OF SUSTAINABILITY

PROJECT AREA

GOALS:
- Positive Behavior
- Diversity
- Non-Toxic
- Salmon Friendly
- Zero Waste
- Healthy Air
- Carbon Neutral
- Vibrant Economy
- Energy Positive
- Healthy Water
- Human Wellbeing
THE BAY RING
CONNECTING HABITATS AROUND THE BAY

- UPLAND HABITAT
- RIPARIAN HABITAT
- INTERTIDAL HABITAT
- AQUATIC HABITAT
CONNECTING HABITAT ZONES
AQUATIC TO UPLAND

osprey

PREYS ON

NESTS IN

DEPES ON

EATS

STABILIZES

tree

tree nuts

squirrel

slopes

juvenile salmon

invertebrates

marine fish

HIDES ON

AQUATIC ZONE

INTERTIDAL ZONE

RIPARIAN ZONE

UPLAND ZONE
AQUATIC HABITAT
PLANT LIFE + WILDLIFE
INTERTIDAL AND RIPARIAN HABITATS
PLANT LIFE + WILDLIFE
UPLAND HABITAT
PLANT LIFE + WILDLIFE
URBAN HABITATS
RE-INTRODUCING NATIVE SPECIES

AQUATIC ZONE

INTERTIDAL ZONE

RIPARIAN ZONE

UPLAND ZONE
PLAN OF SEATTLE
1855-6

Showing the position occupied by the Dredgers from January 26, together with the line of Barricades erected and roads constructed.

J. T. Phelps
Commodore U.S.N.

ELLIOIT BAY

Original Sketch Enlarged & Revised
by
December 1930
DEGRADED NEARSHORE HABITATS

- Migratory corridor
  - Depth
  - Light

- Nearshore ecosystem productivity
  - Aquatic and riparian vegetation
  - Macroinvertebrates
  - Substrate diversity
THREATENED + ENDANGERED SPECIES

- Salmon
- Trout
- Puget Sound Rockfish
AQUATIC HABITAT
RE-CONNECTING THE MIGRATION CORRIDOR
AQUATIC HABITAT
EXISTING CONDITIONS

BETWEEN PIERS
DEEP WATER / NATURAL LIGHT

UNDER PIER
SHALLOW WATER / NO LIGHT

NEARSHORE OPEN WATER
SHALLOW WATER / NATURAL LIGHT
AQUATIC HABITAT
ENHANCED NEAR-SHORE HABITAT

BETWEEN PIERS
ENHANCED HABITAT + HABITAT BENCH

AT PIER
LIGHT PENETRATING SURFACE + HABITAT BENCH

NEARSHORE OPEN WATER
ENHANCED HABITAT + HABITAT BENCH
AQUATIC HABITAT
ENHANCED NEAR-SHORE HABITAT
CONSTRUCTING HABITAT IN THE PUBLIC REALM
CONSTRUCTING HABITAT IN THE PUBLIC REALM

PUBLIC REALM VARIATES
BIKE LANE VARIATES
ROADWAY VARIATES
SIDEWALK VARIATES

+16'
HIGH WATER LEVEL
+8.04'
MEAN HIGH TIDE LEVEL
-4.14'
MEAN LOW TIDE LEVEL
-2.52'
LOW WAVE LEVEL
CONSTRUCTING HABITAT IN THE PUBLIC REALM

+16'
HIGH WATER LEVEL

+4.14'
EAST RIVER ETW

-2.52'
LOW WATER LEVEL

PUBLIC REALM
VARIIES

BIKE LANE
VARIIES

ROADWAY
VARIYES

SIDEWALK
VARIIES
HARBOR BENCH

WATERFRONT PROMENADE
BIKE PATH
HARBOR BENCH

HARBOR STEPS
GARDEN STAIRS

GARDEN PLANTERS

STAIRS

SEATING STEPS
DISCUSSION QUESTIONS

• How can the waterfront help to restore the natural ecology of Elliott Bay and showcase sustainable design?
• What are the long-term environmental stewardship opportunities (educational, youth/student, partnerships)?
• How can the waterfront program encourage ecological stewardship?
• How can we (you) interact with nature on the waterfront?
• How can the waterfront connect to our Pacific Northwest regional quality of life?