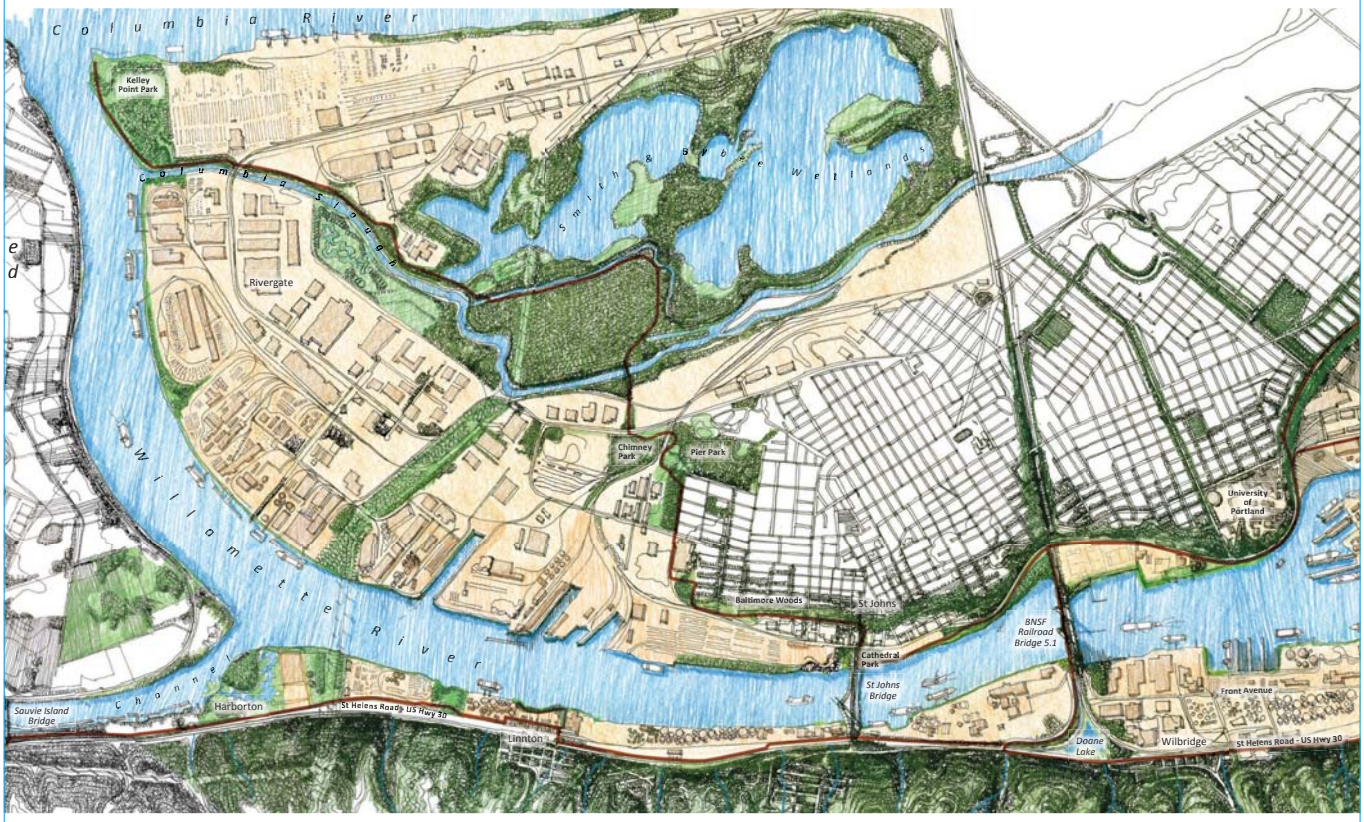
The River Plan
North Reach

Recommended Draft

NOVEMBER 2009



Volume 3B:
Natural Resources Inventory:
Riparian Corridors and Wildlife Habitat —
Appendices

City of Portland Bureau of
Planning and Sustainability
Sam Adams, Mayor | Susan Anderson, Director

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APPENDIX A:

PORTLAND WATERSHED MANAGEMENT PLAN, CITY-WIDE GOALS AND OBJECTIVES (BUREAU OF ENVIRONMENTAL SERVICES, 2006)

HYDROLOGY GOAL: Move toward normative* stream flow conditions to protect and improve watershed and stream health, channel functions, and public health and safety.

OBJECTIVES:

Stream Flow and Hydrologic Complexity: Protect and increase rainfall interception areas, create infiltration and detention areas to normalize stream hydrographs, reduce stormwater flow to sewer systems, and reduce basement flooding.

Channel and Floodplain Function: Protect and restore the extent, connectivity, and function of streams, other open drainageways, wetlands, riparian areas and floodplains to improve bank stability and natural hydrologic functions and reduce risk to development and human safety.

Stormwater Conveyance: Maintain stormwater collection and conveyance infrastructure capacity.

PHYSICAL HABITAT GOAL: Protect, enhance, and restore aquatic and terrestrial habitat conditions and support key ecological functions and improved productivity, diversity, capacity, and distribution of nativefish and wildlife populations and biological communities.

OBJECTIVES:

Aquatic Habitat: Protect and improve aquatic, riparian, and floodplain habitat extent, quality, and connectivity that supports the persistence of native fish and wildlife communities.

Terrestrial Habitat: Protect and improve upland habitat extent, quality, and connectivity that support the persistence of native terrestrial communities and connectivity to aquatic and riparian habitat.

WATER AND SEDIMENT QUALITY GOAL: Protect and improve surface water and groundwater quality to protect public health and support native fish and wildlife populations and biological communities.

OBJECTIVES:

Stream Temperature: Protect and improve stream temperatures, dissolved oxygen, and pH levels that protect ecological health and achieve applicable water quality standards.

Human Pathogens: Maintain and manage sewer infrastructure and stormwater inputs and runoff to limit sewage overflow and the delivery of pathogens to waterways and achieve applicable water quality and sewer design manual standards.

Urban Pollutants: Manage the sources and transport of urban stormwater and industrial pollutants and nutrients to limit surface water, groundwater, soil, and sediment contamination to levels that protect ecological and human health and achieve applicable water quality standards.

BIOLOGICAL COMMUNITIES GOAL: Protect, enhance, manage and restore native aquatic and terrestrial species and biological communities to improve and maintain biodiversity in Portland's watersheds.

OBJECTIVES:

Fish and Other Aquatic Organisms: Implement watershed actions to maximize the persistence of native Willamette and Columbia River fish and other aquatic organisms and assist with species recovery and potential population productivity by protecting and improving hydrology, habitat, and water quality.

Terrestrial Wildlife and Vegetation: Implement watershed actions to restore populations of terrestrial organisms to healthy, self-sustaining levels, protect and restore the composition and structure of native vegetation communities, and reduce populations of non-native plants and organisms to levels that do not compete with native species.

APPENDIX B:

SPECIAL HABITAT AREA ELIGIBILITY CRITERIA

Code	Criterion
P	Area contains sensitive or unique plant species
W	Wetlands and associated seeps, springs and streams that are part of a wetland complex
O	Native oak
B	Bottomland hardwood forest
I	Riverine island
D	River delta
M	Migratory stopover habitat
C	Corridor between patches or habitats
S	Area vital, on more than an incidental basis, to completion of one or more phases of a sensitive species life history
E	Elk migratory corridor
G	Upland habitat or landscape feature important to individual grassland-associated species or assemblages of grassland-associated species on more than an incidental basis
U	Resource or structure that provides critical or unique habitat function in natural or built environments

P - Area contains sensitive or unique plant species

This criterion applies to areas containing the following plant species:

1. Those listed by USFWS or NOAA Fisheries as Endangered, Threatened, Proposed Endangered, or Proposed Threatened under the Endangered Species Act or by the ODA or ODFW under the Oregon Endangered Species Act; OR
2. Species that receive an Oregon Natural Heritage rank 1, 2 or 3
    a. 1 = Critically imperiled because of extreme rarity or especially vulnerable to extinction or extirpation
    b. 2 = Imperiled because of extreme rarity or especially vulnerable to extinction or extirpation
    c. 3 = Rare, uncommon or threatened, but not immediately imperiled

Not included are plant populations that are listed by USFWS/NOAA or ODA/ODFW as Candidate Taxa or Species of Concern, unless the plant population received an Oregon Natural Heritage rank of 1-3 or is a wetland indicator species. Also not included are those plant populations that received an Oregon Natural Heritage rank of 4 = not rare and apparently secure, but with cause for long-term concern, or 5 = demonstrably widespread and secure.

W – Wetlands and associated seeps, springs and streams that are part of a wetland complex

This criterion applies to selected wetlands, and associated seeps, springs and streams that provide critical watershed functions (i.e., water quality, hydrology, wildlife habitat, etc.) and are increasingly rare within Portland. SHAs include primarily those wetlands that:

1. Are connected to a stream or flood area;
2. Are part of a larger resource area, such as a wetland located within or adjacent to a forest; or
3. Provide connectivity between other high value habitats.

This criterion may incorporate constructed wetlands where the purpose of the wetland includes providing fish and wildlife habitat. Upland wetlands that are very small and are surrounded by development or intense land uses, such as golf courses, and certain water quality facilities are generally not designated as SHAs.

O – Native oak
The native oak criterion applies to areas that contain Oregon white oaks. Other tree species and vegetation, including invasive plants such as Himalayan blackberries, may be present.

B – Bottomland hardwood forest
This criterion applies to selected areas that contain remnant bottomland hardwood. Not all bottomland hardwood forests in the city are designated as a SHA. To be designated, an area must be considered unique, rare or declining within a particular watershed.

I – Riverine island
This criterion applies to riverine islands that provide habitat for shorebirds, waterfowl, terns and gulls, Bald Eagles or other wildlife. The area shall contain beaches, mudflats and/or large wood deposits.

D – River delta
This criterion applies to river deltas that provide habitat for shorebirds, waterfowl, terns and gulls, Bald Eagles or other wildlife. The area shall contain beaches, mudflats and/or large wood deposits.

M – Migratory stopover habitat
This criterion is applied to vegetated areas and other landscape features (e.g., buttes) where use by migratory bird species has been documented, or is reasonably expected to occur, on more than an incidental basis. The criterion applies to areas that:

1. Provide nesting opportunities;
2. Provide food and resting opportunities;
3. Provide sufficient cover to reduce predation; and
4. Support a diverse assemblage or high concentration of migratory species

On more than an incidental basis means the identified species is documented to repeatedly or periodically use the habitat or feature.

Reasonably expected to occur generally applies to resource features that typically provide the functions listed above (e.g., buttes, ridge-topes/high elevation features, wetlands, mudflats, riparian areas or focal sites) and where local or regional technical experts state such uses by migratory birds is expected based on existing information or observations.

C – Corridor between patches or habitats
This criterion applies to vegetated areas that:

1. Provide connectivity between high value habitats including other Special Habitat Areas;
2. Provide connectivity between water bodies, riparian areas and upland habitats; or
3. Extend outward from another SHA to provide a wildlife movement corridor.

S – Area vital, on more than an incidental basis, to completion of one or more phases of a sensitive species life history

This criterion applies to areas with documented use by the following wildlife species (see Appendix X: Special Status Fish and Wildlife Species in Portland):

1. Species listed by USFWS or NOAA Fisheries as:
    a. LE Listed Endangered
    b. LT Listed Threatened
    c. PE Proposed Endangered

   d. PT Proposed Threatened
   e. SoC Species of Concern
   f. C Candidate
   g. Includes areas designated as Critical Habitats by NOAA Fisheries
2. Species Listed by Oregon Department of Agriculture (ODA) or ODFW as:
   a. LE Listed Endangered
   b. LT Listed Threatened
   c. SC Critical
   d. SV Vulnerable
3. Species that received an Oregon Natural Heritage rank or list 1, 2 or 3.
   a. 1 = Critically imperiled because of extreme rarity or especially vulnerable to extinction or extirpation
   b. 2 = Imperiled because of extreme rarity or especially vulnerable to extinction or extirpation
   c. 3 = Rare, uncommon or threatened, but not immediately imperiled;

Life cycle phases include but are not limited to:

- courtship, nesting, breeding
- rearing young, juvenile development
- feeding, foraging, hunting
- resting, basking, perching
- cover/protection from predators or disturbances (e.g. noise, light)
- dispersal, migration, migratory stopover
- over-wintering

This criterion may apply to individuals that make up a local population, pairs, colonies or a regional population.

On more than an incidental basis means the identified species is documented to repeatedly or periodically use the habitat or feature.

E – Elk migratory corridor

This criterion is applied to areas that ODFW has designated as elk migratory corridors.

G – Upland habitat or landscape feature important to individual grassland-associated species or assemblages of grassland-associated species on more than an incidental basis

This criterion is applied to areas that contain-vegetative structure, topography or soil substrates that provide functions similar to a native meadow, prairie or grassland and where use by grassland-associated wildlife species has been documented. This criterion is also applied to areas that:

1. Are part of a larger resource area, such as a grassy area located adjacent to a forest;
2. Provide connectivity between other high value habitats; or
3. Extend outward from an SHA to provide a wildlife movement corridor.

On more than an incidental basis means the identified species is documented to repeatedly or periodically use the habitat or feature.

U – Resource or structure that provides critical or unique habitat function in natural or built environments

This criterion applies to resources or structures that are generally not accounted for by other criteria, and that provide a documented critical or unique habitat function. Examples include: bridges, chimneys, rock outcrops, groundwater upwelling areas, and street trees.

As noted above, Special Habitat Areas have been designated based on documented information about specific sites or areas. In addition, some of the SHAs reflect specific watershed conditions. For instance, areas of bottomland forest along the Willamette River has been designated as Special Habitat Areas, in part because there are so few such areas left along the Willamette in the city. Bottomland forest is more common along the Columbia Slough and may not be designated as Special Habitat Area in that watershed.

APPENDIX C:

WILDLIFE HABITAT ASSESSMENT FORMS

Kelley Point Park

REACH Confluence	SITE NAME - 1.1.a	SCORE 71
LOCATION Kelley Point	DATE 12/2/99	OBSERVERS EL, TB, SB, BG

GENERALCOMMENTS
Forested park at the confluence of the Willamette and Columbia Rivers

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	8	
	Quality	Low 0 / Medium 4 / High 8	4	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	6	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	6	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	5	
	Variety	Low 0 / Medium 4 / High 8	4	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	5	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	4	
	Variety	Low 0 / Medium 4 / High 8	3	
	Seasonality	Low 0 / Limited 2 / Year round 4	3	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	4	
	Access	Low 0 / Medium 2 / High 4	4	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	3	
	Activity	High 0 / Medium 2 / Low 4	2	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	6	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	4	Large bottomland forest at major confluence
	Flora	Low 0 / Medium 2 / High 4	0	
	Fauna	Low 0 / Medium 2 / High 4	0	

Remnant Riparian Forest

REACH Confluence	SITE NAME - 1.1.b	SCORE 60
LOCATION Remnant Riparian Forest	DATE 12/2/99	OBSERVERS EL, TB, SB, BG

GENERALCOMMENTS
Riparian forest and wetland located at Terminal 5

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	8	
	Quality	Low 0 / Medium 4 / High 8	3	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	4	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	6	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	5	
	Variety	Low 0 / Medium 4 / High 8	4	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	4	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	4	
	Variety	Low 0 / Medium 4 / High 8	4	
	Seasonality	Low 0 / Limited 2 / Year round 4	2	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	3	
	Access	Low 0 / Medium 2 / High 4	2	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	2	
	Activity	High 0 / Medium 2 / Low 4	3	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	4	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	2	Forested wetland, riparian gallery
	Flora	Low 0 / Medium 2 / High 4	0	
	Fauna	Low 0 / Medium 2 / High 4	0	

South Rivergate Corridor

REACH Confluence	SITE NAME - 1.1.c	SCORE 71
LOCATION South Rivergate Corridor	DATE 12/2/99	OBSERVERS EL, TB, SB, BG

GENERALCOMMENTS
Powerline corridor with shrub-scrub wetland bordering and crossed by Time Oil Road

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	8	
	Quality	Low 0 / Medium 4 / High 8	4	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	6	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	6	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	5	
	Variety	Low 0 / Medium 4 / High 8	4	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	4	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	4	
	Variety	Low 0 / Medium 4 / High 8	4	
	Seasonality	Low 0 / Limited 2 / Year round 4	3	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	3	
	Access	Low 0 / Medium 2 / High 4	2	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	1	
	Activity	High 0 / Medium 2 / Low 4	3	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	6	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	4	OW, EM, SS wetland complex
	Flora	Low 0 / Medium 2 / High 4	0	
	Fauna	Low 0 / Medium 2 / High 4	4	Painted turtle

Confluence to Multnomah Channel

SITE	SITE NAME	SCORE
1.1W	Confluence	40

LOCATION	DATE	OBSERVERS
Confluence to Multnomah Channel	04/09/02	CB, BG, TW

GENERALCOMMENTS:
Reach has a generally natural feel at Kelly Point Park and Sauvie Island. Approximately 1.2 miles of the bank are marine terminal with large T-docks spanning some stretches of narrow beach with large wood. Numerous pilings, docks, outfalls, associated with the marine terminals.

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quality	Low 0 / Medium 4 / High 8	2	Some vegetation present to filter stormwater, but also at the terminus of a large river so upstream inputs are high.
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	6	Large patches of riparian forest dominate the north part of the reach and narrow veg margin remains near water along terminals
	Diversity velocity Streams, wetlands etc.	Low 0 / Med 2 / High 6	4	Confluence and influence of Multnomah Channel and mouth of Columbia Slough create flow diversity
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	4	Large patches riparian vegetation provide source of food.
	Variety	Low 0 / Medium 4 / High 8	3	Some variety of food source provided by riparian forest and large wood, but channel substrate fine grained and not likely to be very productive
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	4	Some deep water refuge, cover available on both shores for most of the reach
STRUCTURE	Diversity	Low 0 / Medium 4 / High 8	3	Backwater areas, Multnomah Channel , Columbia Slough, large wood, man-made in-water structures
	Quantity	Low 0 / Medium 4 / High 8	4	structures are present throughout the reach, along both banks
	Temporality Seasonal, diurnal, etc.	None 0 / Limited 2 / year-round 4	4	
Human Disturbance	Physical	High 0 / Medium 4 / Low 8	2	Much of bank modified with revetment or fill, dredging in main channel, numerous structures
	Activity	High 0 / Medium 2 / Low 4	1	Frequent marine traffic, industrial lands create noise and other types disturbance
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	1	Minimal lateral (floodplain) and vertical connections, but throughout reach
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	1	Extent of riparian gallery unique
	Flora	Low 0 / Medium 2 / High 4	0	none
	Fauna	Low 0 / Medium 2 / High 4	1	Endangered salmonids known to be present-migration and rearing habitat

Harborton Forest / Wetlans

REACH Linnton	SITE NAME – 1.2.a	SCORE 84
LOCATION Harborton Forest / wetlands	DATE 12/2/99	OBSERVERS EL, TB, SB, BG

GENERALCOMMENTS
Bottomland forest and wetland at the confluence of Miller Creek and Multnomah Channel at northern border of city.

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	8	
	Quality	Low 0 / Medium 4 / High 8	2	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	8	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	2	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	5	
	Variety	Low 0 / Medium 4 / High 8	5	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	5	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	6	
	Variety	Low 0 / Medium 4 / High 8	5	
	Seasonality	Low 0 / Limited 2 / Year round 4	3	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	3	
	Access	Low 0 / Medium 2 / High 4	4	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	3	
	Activity	High 0 / Medium 2 / Low 4	4	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	7	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	2	Bottomland forest and tributary confluence
	Flora	Low 0 / Medium 2 / High 4	0	
	Fauna	Low 0 / Medium 2 / High 4	4	Red legged frog, hinook salmon, steelhead trout, chum salmon

Edison Street Forest

REACH Linnton	SITE NAME – 1.2.b	SCORE 30
LOCATION Edison Street Forest	DATE 12/2/99	OBSERVERS EL, TB, SB, BG

GENERALCOMMENTS
Oak woodland on bluff above Terminal 4

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	2	
	Quality	Low 0 / Medium 4 / High 8	2	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	0	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	2	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	4	
	Variety	Low 0 / Medium 4 / High 8	3	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	2	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	3	
	Variety	Low 0 / Medium 4 / High 8	2	
	Seasonality	Low 0 / Limited 2 / Year round 4	2	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	2	
	Access	Low 0 / Medium 2 / High 4	1	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	0	
	Activity	High 0 / Medium 2 / Low 4	2	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	2	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	1	Oak woodland
	Flora	Low 0 / Medium 2 / High 4	0	
	Fauna	Low 0 / Medium 2 / High 4	0	

Multnomah Channel to St. Johns Bridge

SITE	SITE NAME	SCORE
1.2W	Linnton	16

LOCATION	DATE	OBSERVERS
Multnomah Channel To St. Johns Bridge	11/15/01	CB, BG, TW

GENERAL COMMENTS:
Primarily developed shoreline with marine/ industrial activity. Minimal vegetation with small patches present in the northern part of the reach. Some stretches of narrow beach with large wood interspersed with T-docks. Numerous pilings, docks, outfalls, and some embayments associated with the marine terminals.

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quality	Low 0 / Medium 4 / High 8	1	Contaminated sediments (Superfund), numerous outfalls, increased upstream influences
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	2	Some, but minimal in the north end of reach near Multnomah Cannel mouth
	Diversity velocity Streams, wetlands etc.	Low 0 / Med 2 / High 6	1	embayments T-4 and some influence of Multnomah Channel
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	1	Those sources present are limited in size and distribution, but fairly consistent in regards to seasonality.
	Variety	Low 0 / Medium 4 / High 8	1	Variety of food sources limited, some wood substrate, but channel substrate fine grained and not likely to be very productive
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	2	Some deep water refuge and minimal cover along shoreline provided by pilings, docks, and vegetation
STRUCTURE	Diversity	Low 0 / Medium 4 / High 8	1	Backwater areas, Multnomah Channel, man-made in-water structures
	Quantity	Low 0 / Medium 4 / High 8	4	Man-made structures are present throughout the reach, along both banks
	Temporality Seasonal, diurnal, etc.	None 0 / Limited 2 / year-round 4	1	Some floodplain expression but mainly on industrial land
Human Disturbance	Physical	High 0 / Medium 4 / Low 8	0	Majority of bank modified with revetment or fill,
	Activity	High 0 / Medium 2 / Low 4	0	Frequent marine traffic, industrial lands create noise and other types disturbance
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	1	Minimal lateral (floodplain) and vertical connections
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	0	none
	Flora	Low 0 / Medium 2 / High 4	0	none
	Fauna	Low 0 / Medium 2 / High 4	1	Endangered salmonids known to be present-migration and rearing habitat

Willamette Cove

REACH Willamette Terrace	SITE NAME – 2.1.a	SCORE 50
LOCATION Willamette Cove	DATE 12/2/99	OBSERVERS EL, TB, SB, BG

GENERALCOMMENTS
Riparian/upland area between Cathedral Park and BNSF Railroad Bridge

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	8	
	Quality	Low 0 / Medium 4 / High 8	2	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	6	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	2	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	4	
	Variety	Low 0 / Medium 4 / High 8	4	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	4	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	3	
	Variety	Low 0 / Medium 4 / High 8	3	
	Seasonality	Low 0 / Limited 2 / Year round 4	2	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	2	
	Access	Low 0 / Medium 2 / High 4	2	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	1	
	Activity	High 0 / Medium 2 / Low 4	1	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	6	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	0	
	Flora	Low 0 / Medium 2 / High 4	0	
	Fauna	Low 0 / Medium 2 / High 4	0	

Waud Bluff

REACH Willamette Terrace	SITE NAME – 2.1.b	SCORE 54
LOCATION Waud Bluff	DATE 12/14/99	OBSERVERS EL, TB, SB, BG

GENERALCOMMENTS
Oak-madrone bluff above Willamette Cove

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	4	
	Quality	Low 0 / Medium 4 / High 8	3	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	4	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	2	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	5	
	Variety	Low 0 / Medium 4 / High 8	4	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	3	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	4	
	Variety	Low 0 / Medium 4 / High 8	4	
	Seasonality	Low 0 / Limited 2 / Year round 4	3	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	2	
	Access	Low 0 / Medium 2 / High 4	3	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	2	
	Activity	High 0 / Medium 2 / Low 4	2	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	5	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	2	Oak woodland
	Flora	Low 0 / Medium 2 / High 4	2	
	Fauna	Low 0 / Medium 2 / High 4	0	

Railroad Corridor

REACH Willamette Terrace	SITE NAME – 2.1.c	SCORE 68
LOCATION Railroad Corridor	DATE 3/6/00	OBSERVERS EL, TB, SB

GENERALCOMMENTS
Corridor along railroad from river to Doane Lake, extends south to Saltzman Creek

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	8	
	Quality	Low 0 / Medium 4 / High 8	2	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	6	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	4	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	6	
	Variety	Low 0 / Medium 4 / High 8	6	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	5	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	5	
	Variety	Low 0 / Medium 4 / High 8	4	
	Seasonality	Low 0 / Limited 2 / Year round 4	3	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	3	
	Access	Low 0 / Medium 2 / High 4	2	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	1	
	Activity	High 0 / Medium 2 / Low 4	1	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	4	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	4	Stillwater habitat, wetland
	Flora	Low 0 / Medium 2 / High 4	0	
	Fauna	Low 0 / Medium 2 / High 4	4	Red legged frog breeding site

St. Johns Bridge to University of Portland

SITE	SITE NAME	SCORE
2.1 w	Willamette Terrace	18

LOCATION	DATE	OBSERVERS
St John's Bridge to University of Portland	11/15/01	CP/BG

GENERAL COMMENTS

Generally industrialized, modified banks with natural area at Willamette Cove with beach extended to St John's Bridge and beach on west side near RR bridge. McCormick and Baxter Superfund site, and other Portland Harbor Superfund clean-up sites located within reach. Tributaries include Saltzman and Doane Creek (piped) and several smaller piped streams

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quality	Low 0 / Medium 4 / High 8	1	Contaminated sediments (Superfund) increased inputs from upstream and outfalls
WATER	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	2	Very limited but some present at Willamette Cove, Cathedral Park, and Saltzman mouth
WATER	Diversity velocity Streams, wetlands etc.	None 0 / One 2 / Two / Three 6	1	Tributaries and backwater areas
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	2	Variety of food sources are limited to small portions of the reach limiting quantity and seasonality.
FOOD	Variety	Low 0 / Medium 4 / High 8	1	Very limited variety of food sources, some diversity provided by cove at Willamette Cove and wood along beaches north of cove
FOOD	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	1	Some man-made structures provide cover, shallow water and large wood along beaches provide cover opportunities for aquatic species
STRUCTURE	Diversity	Low 0 / Medium 4 / High 8	2	Wood, beaches, some complexity to shoreline
STRUCTURE	Quantity	Low 0 / Medium 4 / High 8	2	Structure in this reach is primarily provided by areas with pilings and large wood, but quantities are limited
STRUCTURE	Temporality Seasonal, diurnal, etc.	None 0 / Limited 2 / year-round 4	2	Some seasonal structure provided by beach areas
Human Disturbance	Physical	High 0 / Medium 4 / Low 8	1	Highly altered shoreline, multiple in-water man-made structures, contaminated sediments
Human Disturbance	Activity	High 0 / Medium 2 / Low 4	0	Marine traffic, recreational boats, nearshore activities create noise and light
	Linkage/ Connectivity	Low 0 / Medium 4 / High 8	1	Extensive beach areas provide some lateral connectivity and possible hyporheic connections
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	1	Long reach of beach for Willamette Cove to St John's bridge, and beach on west side
UNIQUE FEATURES	Flora	Low 0 / Medium 2 / High 4	0	None noted
UNIQUE FEATURES	Fauna	Low 0 / Medium 2 / High 4	1	Endangered salmonids known to use reach for migration and probably rearing

Mock's Crest

REACH Swan Island	SITE NAME – 2.2.a	SCORE 44
LOCATION Mock's Crest	DATE 3/6/00	OBSERVERS EL, TB, SB, BG

GENERALCOMMENTS
Oak-madrone forest corridor along bluff above Mock's Bottom, extending from University of Portland to Fremont Bridge

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	3	
	Quality	Low 0 / Medium 4 / High 8	2	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	3	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	2	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	4	
	Variety	Low 0 / Medium 4 / High 8	4	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	3	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	3	
	Variety	Low 0 / Medium 4 / High 8	4	
	Seasonality	Low 0 / Limited 2 / Year round 4	3	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	1	
	Access	Low 0 / Medium 2 / High 4	2	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	2	
	Activity	High 0 / Medium 2 / Low 4	1	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	3	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	2	
	Flora	Low 0 / Medium 2 / High 4	2	
	Fauna	Low 0 / Medium 2 / High 4	0	

Swan Island Beaches

REACH Swan Island	SITE NAME – 2.2.b	SCORE 36
LOCATION Swan Island Beaches	DATE 12/14/99	OBSERVERS EL, TB, SB, BG

GENERALCOMMENTS
Riparian and beach located at two sites on Swan Island

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	8	
	Quality	Low 0 / Medium 4 / High 8	2	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	4	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	2	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	3	
	Variety	Low 0 / Medium 4 / High 8	2	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	2	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	2	
	Variety	Low 0 / Medium 4 / High 8	2	
	Seasonality	Low 0 / Limited 2 / Year round 4	1	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	1	
	Access	Low 0 / Medium 2 / High 4	1	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	1	
	Activity	High 0 / Medium 2 / Low 4	1	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	3	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	1	Extensive reaches of beach
	Flora	Low 0 / Medium 2 / High 4	0	
	Fauna	Low 0 / Medium 2 / High 4	0	

University of Portland to Fremont Bridge

SITE	SITE NAME	SCORE
2.2w	Swan Island	17

LOCATION	DATE	OBSERVERS
University of Portland to Fremont Bridge	11/15/01	CP/BG

GENERAL COMMENTS

Generally industrialized /modified banks with some beach areas along Swan Island lagoon and riverfront. West bank is almost entirely covered by docks and other man-made structures. Beach area on east shore of Swan Island peninsula. Small wetland at south end of lagoon. Numerous stormwater outfalls.

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quality	Low 0 / Medium 4 / High 8	0	Contaminated sediments (Superfund) with increased inputs from upstream and outfalls,
WATER	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	1	Limited to area at the south end and east bank of Swan Island lagoon
WATER	Diversity velocity Streams, wetlands etc.	Low 0 / Medium 2 / High 6	1	Lagoon provides off-channel area and small wetland, some velocity refuge in lagoon
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	2	Beach areas add to seasonality
FOOD	Variety	Low 0 / Medium 4 / High 8	1	large wood and pilings provide substrate for macroinvertabrates, but other sources are limited
FOOD	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	1	Man-made structures, wood, but limited vegetation
STRUCTURE	Diversity	Low 0 / Medium 4 / High 8	2	Some wood along beaches, man-made structures, small embayments, and lagoon
STRUCTURE	Quantity	Low 0 / Medium 4 / High 8	2	Limited quantities of habitat forming structure
STRUCTURE	Temporality Seasonal, diurnal, etc.	None 0 / Limited 2 / year-round 4	2	Beaches add to seasonality
Human Disturbance	Physical	High 0 / Medium 4 / Low 8	0	Highly modified banks, fill, dregding, pilings and docks
Human Disturbance	Activity	High 0 / Medium 2 / Low 4	0	Area of high activity, industrial noise, marine traffic
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	2	Beaches/wetland provide lateral and vertical connectivity. Emergent wetland at south end of lagoon
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	1	Beaches and wetland
UNIQUE FEATURES	Flora	Low 0 / Medium 2 / High 4	1	Wapato thought to be present at wetland
UNIQUE FEATURES	Fauna	Low 0 / Medium 2 / High 4	1	Salmonids likely to use shallow and slow water areas for rearing and refuge

Fremont Bridge to Steel Bridge

SITE	SITE NAME	SCORE
2.3w	River District	10

LOCATION	DATE	OBSERVERS
Fremont Bridge to Steel Bridge	04/09/02	CP/BG

GENERAL COMMENTS

Fairly straight reach of river characterized by modified banks, bridges, and industrial/commercial shoreline with several cargo loading facilities on the east bank. A deep pool is present north of the Steel Bridge.

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quality	Low 0 / Medium 4 / High 8	1	Numerous outfalls, increased upstream influences
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	1	Some invasive species present-Himalayan blackberry- but very limited
	Diversity velocity Streams, wetlands etc.	Low 0 / Med 2 / High 6	0	Fairly homogenous velocity, no areas of refuge, no tributaries/confluences/ wetlands
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	1	No vegetation and no variety or quantity of habitat to provide food sources
	Variety	Low 0 / Medium 4 / High 8	0	Homogenous character of this reach, lack of vegetation and wood indicate high probability of low diversity
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	1	Some cover provided by bridges and man-made structure
STRUCTURE	Diversity	Low 0 / Medium 4 / High 8	1	Man-made structures and small beach
	Quantity	Low 0 / Medium 4 / High 8	0	Even structure provided by man-made structures is limited
	Temporality Seasonal, diurnal, etc.	None 0 / Limited 2 / year-round 4	1	The structure does not improve with seasonal change
Human Disturbance	Physical	High 0 / Medium 4 / Low 8	0	Highly modified riverbanks, in-water structures such as bridges, pilings, docks
	Activity	High 0 / Medium 2 / Low 4	1	Recreational and marine traffic, noise and light from industrial, residential, and bridge activity
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	1	Connectivity to longitudinal aspect of the river, other dimensions very limited
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	0	none
	Flora	Low 0 / Medium 2 / High 4	0	none
	Fauna	Low 0 / Medium 2 / High 4	2	Endangered salmonids known to be present-migration and rearing habitat, peregrine falcons nest on Fremont Bridge

Steel Bridge to Hawthorne Bridge

SITE	SITE NAME	SCORE
3.1w	Seawall	10

LOCATION	DATE	OBSERVERS
Steel Bridge to Hawthorne Bridge	11/15/01	CP/BG

GENERAL COMMENTS

Highly modified banks with seawall or revetments along entire bank with multiple structures in and over the water.

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quality	Low 0 / Medium 4 / High 8	2	CSO and outfalls
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	0	Small patch of vegetation associated with bio-engineered riverbank, but not well-connected to the river
	Diversity velocity Streams, wetlands etc.	Low 0 / Med 2 / High 6	0	Velocity fairly uniform, some backwater characteristics near north end of the floating walkway
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	1	Homogenous character of this reach, lack of vegetation and wood indicate high probability of low diversity
	Variety	Low 0 / Medium 4 / High 8	1	Variety limited by homogenous nature of reach
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	1	Limited areas of cover found only near east bank and bridges
STRUCTURE	Diversity	Low 0 / Medium 4 / High 8	0	Structural diversity limited to man-made features
	Quantity	Low 0 / Medium 4 / High 8	1	Man-made structures present throughout reach/
	Temporality Seasonal, diurnal, etc.	None 0 / Limited 2 / year-round 4	1	Structure not likely to improve with seasonal change
Human Disturbance	Physical	High 0 / Medium 4 / Low 8	0	Highly modified banks, with seawall, in-water structures, floating walkway, bridges
	Activity	High 0 / Medium 2 / Low 4	1	Noise, light, human activity on water (floating walkway), recreational boats
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	1	Connectivity to longitudinal aspect of the river, other dimensions
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	0	none
	Flora	Low 0 / Medium 2 / High 4	0	none
	Fauna	Low 0 / Medium 2 / High 4	1	Endangered salmonids known to be present-migration and rearing habitat

Hawthorne Bridge to Ross Island Bridge

SITE	SITE NAME	SCORE
3.2w	OMSI	11

LOCATION	DATE	OBSERVERS
Hawthorne Bridge to Ross Island Bridge	11/15/01	CP/BG

GENERAL COMMENTS

Generally modified banks with primarily invasive vegetation species. Small beach area present on west side. Several man-made structures over and in the water.

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quality	Low 0 / Medium 4 / High 8	2	CSO and outfalls
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	1	Patches limited to invasives and small patch of plantings on east bank
	Diversity velocity Streams, wetlands etc.	Low 0 / Med 2 / High 6	0	Velocity fairly uniform, some slow-water characteristics on wet bank between Hawthorne and Marquam Bridges
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	1	Homogenous character of this reach, lack of vegetation and wood
	Variety	Low 0 / Medium 4 / High 8	1	Variety limited by homogenous nature of reach
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	1	Some cover provided by pilings and man-made structure found near docks and bridges
STRUCTURE	Diversity	Low 0 / Medium 4 / High 8	0	Structural diversity limited primarily to man-made features
	Quantity	Low 0 / Medium 4 / High 8	1	Man-made structures present throughout reach
	Temporality Seasonal, diurnal, etc.	None 0 / Limited 2 / year-round 4	1	Structure not likely to improve with seasonal change
Human Disturbance	Physical	High 0 / Medium 4 / Low 8	0	Highly modified banks, in-water structures, docks, bridges, pilings
	Activity	High 0 / Medium 2 / Low 4	1	Noise, light, human activity at docks and bridges, recreational boats and barge traffic
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	1	Connectivity to longitudinal aspect of the river, other dimensions
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	0	none
	Flora	Low 0 / Medium 2 / High 4	0	none
	Fauna	Low 0 / Medium 2 / High 4	1	Endangered salmonids known to be present-migration and rearing habitat

Ross Island Complex

REACH Ross Island	SITE NAME – 4.1.a	SCORE 90
LOCATION Ross Island Complex	DATE 3/6/00	OBSERVERS EL, TB, SB, BG

GENERALCOMMENTS
Bottomland forest and wetland site on Ross Island Complex (Ross, East, Toe, and Hardtack Islands)

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	8	
	Quality	Low 0 / Medium 4 / High 8	4	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	8	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	4	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	7	
	Variety	Low 0 / Medium 4 / High 8	6	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	6	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	7	
	Variety	Low 0 / Medium 4 / High 8	6	
	Seasonality	Low 0 / Limited 2 / Year round 4	3	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	4	
	Access	Low 0 / Medium 2 / High 4	4	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	3	
	Activity	High 0 / Medium 2 / Low 4	4	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	8	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	4	Island habitat
	Flora	Low 0 / Medium 2 / High 4	0	
	Fauna	Low 0 / Medium 2 / High 4	4	Nesting bald eagle, heron rookery

Oaks Bottom Complex

REACH Swan Island	SITE NAME – 4.1.b	SCORE 85
LOCATION Oaks Bottom Complex	DATE 2/28/00	OBSERVERS EL, TB, BG

GENERALCOMMENTS
Riparian/wetland/upland complex between Ross and Sellwood Bridges

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	8	
	Quality	Low 0 / Medium 4 / High 8	4	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	7	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	6	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	7	
	Variety	Low 0 / Medium 4 / High 8	6	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	6	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	6	
	Variety	Low 0 / Medium 4 / High 8	6	
	Seasonality	Low 0 / Limited 2 / Year round 4	4	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	4	
	Access	Low 0 / Medium 2 / High 4	3	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	2	
	Activity	High 0 / Medium 2 / Low 4	2	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	8	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	2	
	Flora	Low 0 / Medium 2 / High 4	2	
	Fauna	Low 0 / Medium 2 / High 4	2	

Cottonwood Bay

REACH Ross Island	SITE NAME – 4.1.c	SCORE 36
LOCATION Cottonwood Bay	DATE 2/28/00	OBSERVERS EL, TB, BG

GENERALCOMMENTS
Site along Greenway Trail, cottonwood bay/heron point

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	8	
	Quality	Low 0 / Medium 4 / High 8	2	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	4	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	4	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	2	
	Variety	Low 0 / Medium 4 / High 8	2	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	2	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	2	
	Variety	Low 0 / Medium 4 / High 8	2	
	Seasonality	Low 0 / Limited 2 / Year round 4	2	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	1	
	Access	Low 0 / Medium 2 / High 4	2	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	0	
	Activity	High 0 / Medium 2 / Low 4	0	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	3	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	0	
	Flora	Low 0 / Medium 2 / High 4	0	
	Fauna	Low 0 / Medium 2 / High 4	0	

Stephens Creek/Willamette Park

REACH Ross Island	SITE NAME – 4.1.d	SCORE 63
LOCATION Stephens Creek/Willamette Park	DATE 2/28/00	OBSERVERS EL, TB, BG

GENERALCOMMENTS
Forested park at the confluence of the Willamette and Columbia Rivers

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	8	
	Quality	Low 0 / Medium 4 / High 8	3	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	4	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	4	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	6	
	Variety	Low 0 / Medium 4 / High 8	5	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	4	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	6	
	Variety	Low 0 / Medium 4 / High 8	4	
	Seasonality	Low 0 / Limited 2 / Year round 4	2	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	3	
	Access	Low 0 / Medium 2 / High 4	3	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	1	
	Activity	High 0 / Medium 2 / Low 4	1	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	6	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	3	Pacific willow floodplain, wetland
	Flora	Low 0 / Medium 2 / High 4	0	
	Fauna	Low 0 / Medium 2 / High 4	0	

Ross Island Bridge to Sellwood Bridge

SITE	SITE NAME	SCORE
4.1w	Ross Island	70

LOCATION	DATE	OBSERVERS
Ross Island Bridge to Sellwood Bridge	11/14/01	CP/ BG

GENERAL COMMENTS

Reach characterized by large islands, slough, and large areas of natural riverbank and vegetation.

	COMPONENT	DEGREE			SCORE	COMMENTS
WATER	Quality	Low 0	Medium 4	High 8	4	Influence of upstream influences and some outfalls within reach
	Streamside Vegetation	None 0	Nearby 4	Adjacent 8	7	Submerged aquatics at Willamette Park, and on islands during high flow. Islands and Oaks Bottom shoreline vegetated
	Diversity velocity Streams, wetlands etc.	Low 0	Med 2	High 6	6	Stephens Creek mouth, slough, backwater areas, nearby wetland
FOOD	Quantity and Seasonality	None 0	Limited 4	year-round 8	7	Food sources-vegetation/wood, etc. in large quantities and available year-round
	Variety	Low 0	Medium 4	High 8	7	Variety of food sources present, vegetation, wood, variety of substrate for invertebrates
	Proximity to cover	None 0	Nearby 3	Adjacent 6	5	Some portions of westbank have limited cover, but islands, and vegetation-submerged and adjacent provide cover for feeding fauna
STRUCTURE	Diversity	Low 0	Medium 4	High 8	7	Sandbars, islands, roughness to shoreline, rock outcrop, some man-made structures such as docks and pilings
	Quantity	Low 0	Medium 4	High 8	5	Limited in quantity by development on westbank
	Temporality Seasonal, diurnal, etc.	None 0	Limited 2	year-round 4	3	In-water structures (man-made and natural) provide seasonal availability
Human Disturbance	Physical	High 0	Medium 4	Low 8	5	Westside banks modified and revetted, in-water structures include pilings, docks, houseboats, Ross Island lagoon altered by mining activity
	Activity	High 0	Medium 2	Low 4	2	Disturbance from industrial(aggregate mining) and recreational activity
Linkage/ Connectivity		Low 0	Medium 4	High 8	5	Vertical, longitudinal, and lateral dimensions of river all expressed, but with some limitations from revetted banks
UNIQUE FEATURES	Rarity of habitat	Low 0	Medium 2	High 4	4	Islands, sandbars, secondary channel, rock outcrop, mudflats, and proximity to large wetland-deep and shallow water areas present
	Flora	Low 0	Medium 2	High 4	2	Submerged aquatics
	Fauna	Low 0	Medium 2	High 4	1	Endangered salmonids known to be present-migration and rearing habitat

Powers Marine Park

REACH Sellwood	SITE NAME – 4.2.a	SCORE 51
LOCATION Powers Marine Park	DATE 2/28/00	OBSERVERS EL, TB, BG

GENERALCOMMENTS
Forested beach site along the west bank of the river, south of Sellwood Bridge

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quantity and Seasonality	None 0 / Seasonal 4 / Perennial 8	8	
	Quality	Low 0 / Medium 4 / High 8	4	
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	5	
	Diversity Streams, wetlands etc.	Low 0 / Med 2 / High 6	4	
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	4	
	Variety	Low 0 / Medium 4 / High 8	3	
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	3	
COVER	Structural Diversity	Low 0 / Medium 4 / High 8	3	
	Variety	Low 0 / Medium 4 / High 8	3	
	Seasonality	Low 0 / Limited 2 / Year round 4	2	
	Nesting, Denning, etc.	Low 0 / Medium 2 / High 4	2	
	Access	Low 0 / Medium 2 / High 4	2	
Human Disturbance	Physical	Permanent 0 / temporary 2 / none 4	1	
	Activity	High 0 / Medium 2 / Low 4	0	
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	6	
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	1	Extensive beach with rock outcrops and small streams
	Flora	Low 0 / Medium 2 / High 4	0	
	Fauna	Low 0 / Medium 2 / High 4	0	

Sellwood Bridge to City Limits

SITE 4.2w	SITE NAME Sellwood	SCORE 57
LOCATION Sellwood Bridge to City limit	DATE 11/14/01	OBSERVERS CP/BG

GENERAL COMMENTS

Westbank consists of a primarily natural beach with numerous small stream mouths and limited man-made structures. Eastbank is primarily riprap with most several docks covering the length of the reach.

	COMPONENT	DEGREE	SCORE	COMMENTS
WATER	Quality	Low 0 / Medium 4 / High 8	4	Upstream influences, and a few outfalls, small streams provide source of cool, clean water
	Streamside Vegetation	None 0 / Nearby 4 / Adjacent 8	5	West shoreline is well vegetated, but limited in regards to submerged and over-water vegetation
	Diversity velocity Streams, wetlands etc.	Low 0 / Med 2 / High 6	4	Numerous small tributaries, some wetland, areas of slow water
FOOD	Quantity and Seasonality	None 0 / Limited 4 / year-round 8	6	Vegetation, wood, rocks provide substrate for invertebrates, leaf litter and other organic inputs from adjacent forest
	Variety	Low 0 / Medium 4 / High 8	6	Limited on eastbank by development, but high throughout remainder of reach
	Proximity to cover	None 0 / Nearby 3 / Adjacent 6	4	Both banks, rock outcrops, and deep pools in river provide opportunities for cover
STRUCTURE	Diversity	Low 0 / Medium 4 / High 8	6	Deep and shallow water habitat, some roughness to shoreline on west side, with limited backwater areas
	Quantity	Low 0 / Medium 4 / High 8	3	Diversity limited to west bank of the river with man-made structure and revetments dominating east shore
	Temporality Seasonal, diurnal, etc.	None 0 / Limited 2 / year-round 4	3	Natural beach provides year-round connectivity, but constrained on eastbank
Human Disturbance	Physical	High 0 / Medium 4 / Low 8	4	Docks, rip rap and in-water structures on eastbank
	Activity	High 0 / Medium 2 / Low 4	3	Public access to westbank, recreational activities in and adjacent to water
Linkage/ Connectivity		Low 0 / Medium 4 / High 8	5	Though constrained by topography some lateral expression, hyporheic/vertical dimension and longitudinal also connected
UNIQUE FEATURES	Rarity of habitat	Low 0 / Medium 2 / High 4	3	Deep pools, rock outcrops, shallow water areas, uninterrupted length of beach
	Flora	Low 0 / Medium 2 / High 4	0	none
	Fauna	Low 0 / Medium 2 / High 4	1	Endangered salmonids known to be present-migration and rearing habitat

SUPPLEMENTAL SITE VISITS

Willamette River Inventory – North Reach

Kelley Point Park

Sub-Reach Name: Confluence	**Site name and ID#:** WR1 Kelley Point, Columbia Slough	**Resource site observation #**
GPS point #'s location/feature _____ _____ _____ _____ _____ _____ _____ _____	**Photo #'s** location/feature(s) _____ _____ _____ _____ _____ _____ _____ _____	
Date January 19, 2006 **Time** 9:50-10:20am **Wind** _____ **Temperature** 45ºF **Precipitation: none** X **mist**_____ **Rain**____ **Snow**_____ **other** _____ **Percent cloud cover: O%** _____ **33%**_____ **66%** _____ **100%** X **Most recent precipitation (date)** 01/19/06	**Location of visit/viewing and viewpoints (e.g., walked SW portion of site from X to Y; viewed SW portion of site from X street - also GPS locate and take photographs)** Lower Slough riparian corridor from the Adolfson resource site boundary to Lombard. Also viewed the vegetation strips along Lombard and determined they were physically separated from the rest of the site, had minimal habitat value, and are highly disturbed (Lombard, parking lots, Port of Portland facility, etc.). Therefore, the strops along Lombard will not be included in the resource site.	**Staff name(s)/affiliations:** Chris Prescott (ESA) Josh Robben (BES) Ry Thompson (BES) Lynn Barlow (BES) Roberta Jortner (BOP) Mindy Brooks (BOP)

Slope (range) ____ to _____% **(Office)**	**Describe landforms present (e.g., ridgetop, hilltop, hillside, flat, rolling, ravine, terrace, bluff, river or stream bank, etc.):** Riparian corridor along Lower Slough. Banks of Slough are steep, especially on the south bank. From top-of-bank back the landscape is rolling.

Vegetation	**Dominant vegetation species by water feature and vegetation classification**			
	Forest (> % canopy)	**Woodland** (> % canopy	**Shrubland**	**Herbaceous**
Approx. percent cover (select from below) trace -<1%; 1 – 10%; 10– 20% 20 – 50%; 50 – 75% 75 - 100% ☑				
Dominant canopy species	Cottonwood			
Other canopy species				
Dominant shrub species (< 5 m)	Blackberries			
Other shrub species	Snowberry, Red Osier Dogwood			
Dominant herb species (> 5 m)	Blue wild rye			
Other herb species				

DBH Class (overstory trees only) – Check most representative class	**Snag abundance and size – (Circle most representative class)**	**Sensitive, unique, or rare plant species – describe (presence, extent, dominance):**	**Disturbance – invasives, human uses, development lights, noise, domestic animals**
DBH < 0 - 12" _____	DBH < 0 - 12" Absent Low Med High		The south bank of the Slough has thick blackberry cover, while the north bank is dominated by blackberries but other shrub cover exists as well. Significant noise from Lombard. Seasonal recreational use may have adverse impacts to the vegetation.
DBH 12 – 24" X	DBH 12 – 24" Absent Low Med High		
DBH > 24" _____	DBH > 24" Absent Low Med High		

Vegetation Comments: (existing quality and condition; restoration options):	Some Revegetation sites to remove blackberries and create structural diversity. Past its 5-year maintenance window (see Revegetation and Mitigation).

Water	**Water Feature Type(s) – (check all that apply)**	**Morphology, complexity, alteration, – describe: (channel stability, erosion, down-cutting)**	**Shading (circle one):** **None Partial ☑ Full**
Indications (circle) : Channel ☑ Standing/flowing water ☑ Silt Drift lines Flood debris ☑ Water marks Saturated soils Hydrophilic vegetation	River _X_ Stream (perennial) ____ Stream (seasonal/intermittent) ____ Wetland (HGM Class) ____ Pond/Lake ___	Stable channel with steep banks. The south bank appears to be steeper than the north bank.	**Water Appearance: (circle all that apply)** **Clear Murky Dirty Oil Sheen Other:** Turbid
Seasonal availability and quantity: Low Medium **High** 0 2 4 6 **8**	Diversity: (streams, wetlands, ponds) Low **Medium** High 0 2 **4** 6 8	Channel Quality (complexity, morphology): Low **Medium** High 0 1 **3** 5 6	Proximity to cover: Low Medium **High** 0 2 4 6 **8**
Comments:	Tidal		

Bank	**Bank vegetation (if applicable)**		**Disturbance: (invasives, human uses, development, lights, noise, domestic animals)**
Bank treatment type(s): (cirlce all that apply) Vegetated Rip rap – vegetated Rip rap – non-vegetated Seawall Beach Mix (describe):	**Canopy % Cover**: 75-100 **Dominate species:** Cottonwood **Shrub % Cover**:_____ **Dominate species:** blackberry **Herb % Cover**:_____ **Dominate species:** Blue wild rye	**Open water shading:** None___ Sparse____ Partial__X_ Most ____ Complete _____	Blackberries, canoe launch, nutria burrowing, noise from Lombard
Comments:	Tidal; large woody debris present. The south bank is dominated by blackberries; the north bank is also dominated by blackberries but has other native species as well.		

Wildlife habitat and observance				
Food	Variety: Low Medium High 0 **2** 4 6 8	Quantity: Low Medium High 0 **2** 4 6 8 blackberries	Seasonal Availability: **Low** Medium High **0** 2 4 6 8	Food - comments: Low layer food only; Ash, snowberry, cottonwoods
Cover	Structural Diversity: Low **Medium** High 0 2 **4** 6 8	Variety and Seasonality: Low Medium High 0 **2** 4 6 8	Nesting and Denning sites: Low **Medium** High 0 2 **4** 6 8	Cover - comments: Lacks significant structural diversity – high and low cover only
Unique features	Wildlife: Not diverse **Somewhat** Very 0 **2** 4	Flora: **Not unique** Somewhat Very **0** 2 4	Rarity of Habitat Type: **Not rare** Somewhat Very **0** 2 4	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: High **Medium** Low 0 2 **4** 6 8	Direct human disturbance (lights, noise, pets, trails).: High **Medium** Low 0 2 **4** 6 8	Severity; permanence: **High** Medium Low **0** 2 4 6 8	Disturbance – comments: Narrow corridor; canoe launch; access road to park; edge effect on south side (Port property)
Important Habitat Features	Interspersion w/other habitats: Low Medium **High** 0 1 3 5 **6**	Downed wood, stumps, snags: Low Medium High 0 **2** 4 6 8	% non-native herbs 100% 80% **50%** 10% 0% 0 1 **2** 3 4 % non-native shrubs 100% 80% **50%** 10% 0% 0 1 **2** 3 4	% non-native canopy 100% 80% 50% 10% **0%** 0 1 2 3 **4**
Other	Rarity of terrestrial habitat type – describe: (presence/absence, e.g., oak/madrone, native grassland): None	Rarity of aquatic habitat type – describe: (presence/absence, e.g., _____) Tidal, off-channel habitat	Linkages/ connectivity – describe: (distance to habitat patches; to water; corridor) Connected to Willamette, Columbia River, Smith/Bybee Lakes and the Lower Slough	Wildlife species observed AND/OR known to be present – describe: (include signs such as rubs, scapes, tracks, droppings) Coyote, heron, raptors, nutria
Comments (general habitat vitality -- vegetation recruitment, diversity of trees and understory, invasives, disturbance):				

Revegetation and Mitigation	Location (e.g. 1 acre along NW property line)	Vegetation Types (include canopy, shrub and herbaceous)	Other Features Enhanced (e.g. channel morphology, LWD, etc.)	Effectiveness (circle)
Month\Year: < 2000 Type (e.g. wetland mitigation): Reveg	Multiple – see map	Shrub and herbaceous		Low Medium High 0 2 4 **6** 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Comments (predation, maintenance needs, etc.): Revegeation (see map) to remove blackberries and jump start an understory/herbaceous layer. Now past the 5-year maintenance window.				

Kelley Point Park/Port of Portland

Sub-Reach Name: Confluence	**Site name and ID#:** WR1 Kelley Point, Columbia River	**Resource site observation #**
GPS point #'s **location/feature** _____ _____ _____ _____ _____ _____ _____ _____	**Photo #'s** **location/feature(s)** _____ _____ _____ _____ _____ _____ _____ _____	
Date January 19, 2006 **Time** 10:45-11:15am **Wind** _____ **Temperature** 45ºF **Precipitation: none**_X_ **mist**_____ **Rain**____ **Snow**_____ **other** _____ **Percent cloud cover: O%** _____ **33%**_____ **66%** _____ **100%**___X___ **Most recent precipitation (date)** 01/19/06	**Location of visit/viewing and viewpoints (e.g., walked SW portion of site from X to Y; viewed SW portion of site from X street - also GPS locate and take photographs)** From last parking lot in Kelley Point Park, walked along fence between Port of Portland property and park; walk a little on bank	**Staff name(s)/affiliations:** Chris Prescott (ESA) Josh Robben (BES) Ry Thompson (BES) Lynn Barlow (BES) Roberta Jortner (BOP) Mindy Brooks (BOP)
Slope (range) ____ to _____% **(Office)**	**Describe landforms present (e.g., ridgetop, hilltop, hillside, flat, rolling, ravine, terrace, bluff, river or stream bank, etc.):** Riparian area of Columbia River; remnant cottonwood forest	

Vegetation	Dominant vegetation species by water feature and vegetation classification			
	Forest (> % canopy)	**Woodland** (> % canopy	**Shrubland**	**Herbaceous**
Approx. percent cover (select from below) trace -<1%; 1 – 10%; 10– 20% 20 – 50%; 50 – 75% 75 - 100% ☑				
Dominant canopy species	Cottonwood			
Other canopy species				
Dominant shrub species (< 5 m)				
Other shrub species				
Dominant herb species (> 5 m)				
Other herb species				

DBH Class (overstory trees only) – Check most representative class	**Snag abundance and size – (Circle most representative class)**	**Sensitive, unique, or rare plant species – describe (presence, extent, dominance):**	**Disturbance – invasives, human uses, development lights, noise, domestic animals**
DBH < 0 - 12" _____	DBH < 0 - 12" Absent Low Med High		
DBH 12 – 24" __X_	DBH 12 – 24" Absent Low Med High		
DBH > 24" _____	DBH > 24" Absent Low Med High		
Vegetation Comments: (existing quality and condition; restoration options):	Unable to walk most of the site could see most of the remnant cottonwood forest and determine with binoculars that little understory exists. West portion of the site is Port mitigation (see Revegetation and Mitigation). Likely a significant edge effect from the Port of Portland operations (automobile shipping).		

Water	**Water Feature Type(s) – (check all that apply)**	**Morphology, complexity, alteration, – describe: (channel stability, erosion, down-cutting)**	**Shading** (circle one): **None Partial Full**
Indications (circle) : Channel Standing/flowing water Silt Drift lines Flood debris Water marks Saturated soils Hydrophilic vegetation	River ___ Stream (perennial) ____ Stream (seasonal/intermittent) ____ Wetland (HGM Class) ____ Pond/Lake ___		**Water Appearance: (circle all that apply)** **Clear Murky Dirty Oil Sheen Other:**
Seasonal availability and quantity: Low Medium High 0 2 4 6 8	Diversity: (streams, wetlands, ponds) Low Medium High 0 2 4 6 8	Channel Quality (complexity, morphology): Low Medium High 0 2 4 6 8	Proximity to cover: Low Medium High 0 1 3 5 6
Comments:	Columbia River		

Bank	**Bank vegetation** (if applicable)		**Disturbance: (invasives, human uses, development, lights, noise, domestic animals)**
Bank treatment type(s): (cirlce all that apply) Vegetated Rip rap – vegetated Rip rap – non-vegetated Seawall Beach Mix (describe):	**Canopy % Cover**:_____ **Dominate species:** **Shrub % Cover**:_____ **Dominate species:** **Herb % Cover**:_____ **Dominate species:**	**Open water shading:** None___ Sparse____ Partial____ Most ____ Complete _____	
Comments:	Unable to view bank because water was too high to walk the bank. From aerial determined that the bank is primarily beach.		

Wildlife habitat and observance				
Food	Variety: **Low** Medium High **0** 2 4 6 8	Quantity: **Low** Medium High **0** 2 4 6 8	Seasonal Availability: Low Medium High 0 2 4 6 8	Food - comments:
Cover	Structural Diversity: Low Medium High 0 **2** 4 6 8	Variety and Seasonality: **Low** Medium High **0** 2 4 6 8	**Nesting** and Denning sites: Low Medium High 0 **2** 4 6 8	Cover - comments: Prime vegetation is cottonwood forest. Unable to determine if denning opportunities exist.
Unique features	Wildlife: **Not diverse** Somewhat Very **0** 2 4	Flora: Not unique Somewhat Very 0 2 4	Rarity of Habitat Type: Not rare Somewhat Very 0 2 4	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: High Medium Low 0 2 4 6 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low 0 **2** 4 6 8	Severity; permanence: High Medium Low 0 **2** 4 6 8	Disturbance – comments: Significant edge effect; lighting, noise; fence around Port facility
Important Habitat Features	Interspersion w/other habitats: Low Medium High 0 1 3 5 6	Downed wood, stumps, snags: Low Medium High 0 2 4 6 8	% non-native herbs 100% 80% 50% 10% 0% 0 1 2 3 4 % non-native shrubs 100% 80% 50% 10% 0% 0 1 2 3 4	% non-native canopy 100% 80% 50% 10% 0% 0 1 2 3 4
Other	Rarity of terrestrial habitat type – describe: (presence/absence, e.g., oak/ madrone, native grassland):	Rarity of aquatic habitat type – describe: (presence/absence, e.g., _____)	Linkages/ connectivity – describe: (distance to habitat patches; to water; corridor)	Wildlife species observed AND/OR known to be present – describe: (include signs such as rubs, scapes, tracks, droppings)
Comments (general habitat vitality -- vegetation recruitment, diversity of trees and understory, invasives, disturbance): Observed a crow or Redtail nest				

Revegetation and Mitigation	**Location (e.g. 1 acre along NW property line)**	**Vegetation Types (include canopy, shrub and herbaceous)**	**Other Features Enhanced (e.g. channel morphology, LWD, etc.)**	**Effectiveness (circle)**
Month\Year: ______ Type (e.g. wetland mitigation): Mitigation	West along park property – there may be more locations			Low Medium **High** 0 2 4 6 **8**
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Comments (predation, maintenance needs, etc.): Contact Port of Portland, Larry Devory regarding mitigation locations here.				

Revegetation and Mitigation	Location (e.g. 1 acre along NW property line)	Vegetation Types (include canopy, shrub and herbaceous)	Other Features Enhanced (e.g. channel morphology, LWD, etc.)	Effectiveness (circle)
Month\Year: ______ Type (e.g. wetland mitigation): Mitigation	West along park property – there may be more locations			Low Medium **High** 0 2 4 6 **8**
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Comments (predation, maintenance needs, etc.): Contact Port of Portland, Larry Devory regarding mitigation locations here.				

Vegetation	Dominant vegetation species by water feature and vegetation classification			
	Forest (> % canopy)	**Woodland** (> % canopy	**Shrubland**	**Herbaceous**
Approx. percent cover (select from below) trace -<1%; 1 – 10%; 10– 20% 20 – 50%; 50 – 75% 75 - 100% ☑				
Dominant canopy species	Doug Fir, Maple (probably big leaf)			
Other canopy species	Hazelnut, Holly, Cedar			
Dominant shrub species (< 5 m)	Sword fern, snowberry			
Other shrub species				
Dominant herb species (> 5 m)	Unable to tell			Turf grass in dog park
Other herb species	English Ivy			

DBH Class (overstory trees only) – Check most representative class	**Snag abundance and size – (Circle most representative class)**	**Sensitive, unique, or rare plant species – describe (presence, extent, dominance):**	**Disturbance – invasives, human uses, development lights, noise, domestic animals**
DBH < 0 - 12" _____	DBH < 0 - 12" Absent Low Med High	Unlikely any unique or rare plants	Groundcover is dominated by ivy, some trees have ivy but most has been cut back. Trails. Heavily used dog park. Grading in the grass areas. Rock and debris in the center of site (possibly from past landfill activities).
DBH 12 – 24" __X_	DBH 12 – 24" Absent Low Med High		
DBH > 24" _____	DBH > 24" Absent Low Med High		
Vegetation Comments: (existing quality and condition; restoration options):	Low lying areas are dominated by turf grasses. Forested hills are maintained.		

Water	**Water Feature Type(s) – (check all that apply)**	**Morphology, complexity, alteration, – describe: (channel stability, erosion, down-cutting)**	**Shading (circle one):** **None Partial Full**
Indications (circle) : Channel Standing/flowing water Silt Drift lines Flood debris Water marks Saturated soils Hydrophilic vegetation	River ___ Stream (perennial) ____ Stream (seasonal/intermittent) ____ Wetland (HGM Class) ____ Pond/Lake ___		**Water Appearance: (circle all that apply)** **Clear Murky Dirty Oil Sheen Other:**
Seasonal availability and quantity: Low Medium High 0 2 4 6 8	Diversity: (streams, wetlands, ponds) Low Medium High 0 2 4 6 8	Channel Quality (complexity, morphology): Low Medium High 0 2 4 6 8	Proximity to cover: Low Medium High 0 1 3 5 6
Comments:	No water features on site		

Bank	**Bank vegetation (if applicable)**		**Disturbance: (invasives, human uses, development, lights, noise, domestic animals)**
Bank treatment type(s): (cirlce all that apply) Vegetated Rip rap – vegetated Rip rap – non-vegetated Seawall Beach Mix (describe):	**Canopy % Cover**:_____ **Dominate species:** **Shrub % Cover**:_____ **Dominate species:** **Herb % Cover**:_____ **Dominate species:**	**Open water shading:** None___ Sparse____ Partial____ Most ____ Complete _____	
Comments:	No water features on site.		

Wildlife habitat and observance				
Food	Variety: Low Medium High 0 **2** 4 6 8	Quantity: Low Medium High 0 **2** 4 6 8	Seasonal Availability: Low Medium High 0 **2** 4 6 8	Food - comments: Snowberry, cones, hazel nuts, maple seeds
Cover	Structural Diversity: Low **Medium** High 0 2 **4** 6 8	Variety and Seasonality: Low **Medium** High 0 2 **4** 6 8	Nesting and Denning sites: Low **Medium** High 0 2 **4** 6 8	Cover - comments: There are different tree heights
Unique features	Wildlife: Not diverse Somewhat Very 0 **1** 2 4	Flora: **Not unique** Somewhat Very **0** 2 4	Rarity of Habitat Type: **Not rare** Somewhat Very **0** 2 4	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: High Medium Low 0 **2** 4 6 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low 0 **2** 4 6 8	Severity; permanence: High Medium Low 0 **2** 4 6 8	Disturbance – comments: Trails, dog park, old landfill debris, surrounding industrial uses, noise
Important Habitat Features	Interspersion w/other habitats: Low Medium High 0 **1** 3 5 6	Downed wood, stumps, snags: Low Medium High 0 **2** 4 6 8	% non-native herbs **100%** 80% 50% 10% 0% **0** 1 2 3 4 interspersed with natives % non-native shrubs 100% **80%** 50% 10% 0% 0 **1** 2 3 4 with sword fern	% non-native canopy 100% 80% 50% **10%** 0% 0 1 2 **3** 4
Other	Rarity of terrestrial habitat type – describe: (presence/absence, e.g., oak/ madrone, native grassland):	Rarity of aquatic habitat type – describe: (presence/absence, e.g., _____)	Linkages/ connectivity – describe: (distance to habitat patches; to water; corridor) Close to St. John's Landfill and Smith/Bybee Lakes although Columbia Blvd is a significant impediment to wildlife movement	Wildlife species observed AND/OR known to be present – describe: (include signs such as rubs, scapes, tracks, droppings) Kinglets, Winter Wren, Chickadees
Comments (general habitat vitality -- vegetation recruitment, diversity of trees and understory, invasives, disturbance): Need to find out park history				

Revegetation and Mitigation	Location (e.g. 1 acre along NW property line)	Vegetation Types (include canopy, shrub and herbaceous)	Other Features Enhanced (e.g. channel morphology, LWD, etc.)	Effectiveness (circle)
Month\Year: ______ Type (e.g. wetland mitigation): Mitigation				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Comments (predation, maintenance needs, etc.): No revegetation or mitigation on site apparent – double check with Parks.				

Chimney and Pier Park, west end

Sub-Reach Name: Linton	**Site name and ID#:** Chimney and Pier Park, west end	**Resource site observation #**
GPS point #'s **location/feature** _____ _____ _____ _____ _____ _____ _____ _____	**Photo #'s** **location/feature(s)** _____ _____ _____ _____ _____ _____ _____ _____	
Date January 31, 2006 **Time** 9:15-10:00am **Wind** _____ **Temperature** 45ºF **Precipitation: none**_X_ **mist**_____ **Rain**____ **Snow**_____ **other** _____ **Percent cloud cover: O%** _____ **33%**_____ **66%** _____ **100%**___X___ **Most recent precipitation (date)** 01/31/06	**Location of visit/viewing and viewpoints (e.g., walked SW portion of site from X to Y; viewed SW portion of site from X street - also GPS locate and take photographs)** Prom parking lot at City of Portland Archives, walked up hill to view forest portion of site and look down at the dog park..	**Staff name(s)/affiliations:** Naomi Tsurumi (BES) Ry Thompson (BES) Andi Gresh (BES) Roberta Jortner (BOP) Deborah Stein (BOP Mindy Brooks (BOP)

Slope (range)	**Describe landforms present (e.g., ridgetop, hilltop, hillside, flat, rolling, ravine, terrace, bluff, river or stream bank, etc.):**
____ to _____% **(Office)**	Hill and very steep along north and center of site (primarily forested). Low, flat areas where dog park and maintained areas are located (primarily turf grass).

Vegetation	Dominant vegetation species by water feature and vegetation classification			
	Forest (> % canopy)	**Woodland** (> % canopy	**Shrubland**	**Herbaceous**
Approx. percent cover (select from below) trace -<1%; 1 – 10%; 10– 20% 20 – 50%; 50 – 75% 75 - 100% ☑				
Dominant canopy species	Cedar, Doug Fir			
Other canopy species	Redwood, Madrone			
Dominant shrub species (< 5 m)	none			
Other shrub species				
Dominant herb species (> 5 m)	Turf grasses			Turf grass
Other herb species				

DBH Class (overstory trees only) – Check most representative class	**Snag abundance and size – (Circle most representative class)**	**Sensitive, unique, or rare plant species – describe (presence, extent, dominance):**	**Disturbance – invasives, human uses, development lights, noise, domestic animals**
DBH < 0 - 12" _____	DBH < 0 - 12" Absent Low Med High	Madrone	Developed and maintained park. No understory. Grasses and exposed ground, duff layer. Significant "good weather" use – ball fields, Frisbee fields, picnic tables, play structures, etc.
DBH 12 – 24" _____	DBH 12 – 24" Absent Low Med High		
DBH > 24" __X__	DBH > 24" Absent Low Med High		
Vegetation Comments: (existing quality and condition; restoration options):	Mature, significant canopy with some younger cedar.		

Water	**Water Feature Type(s) – (check all that apply)**	**Morphology, complexity, alteration, – describe: (channel stability, erosion, down-cutting)**	**Shading** (circle one): **None Partial Full**
Indications (circle) : Channel Standing/flowing water Silt Drift lines Flood debris Water marks Saturated soils Hydrophilic vegetation	River ___ Stream (perennial) ____ Stream (seasonal/intermittent) ____ Wetland (HGM Class) ____ Pond/Lake ___		**Water Appearance: (circle all that apply)** **Clear Murky Dirty Oil Sheen Other:**
Seasonal availability and quantity: Low Medium High 0 2 4 6 8	Diversity: (streams, wetlands, ponds) Low Medium High 0 2 4 6 8	Channel Quality (complexity, morphology): Low Medium High 0 2 4 6 8	Proximity to cover: Low Medium High 0 1 3 5 6
Comments:	No water features on site		

Bank	**Bank vegetation** (if applicable)		**Disturbance: (invasives, human uses, development, lights, noise, domestic animals)**
Bank treatment type(s): (cirlce all that apply) Vegetated Rip rap – vegetated Rip rap – non-vegetated Seawall Beach Mix (describe):	**Canopy % Cover**:_____ **Dominate species:** **Shrub % Cover**:_____ **Dominate species:** **Herb % Cover**:_____ **Dominate species:**	**Open water shading:** None___ Sparse____ Partial____ Most ____ Complete _____	
Comments:	No water features on site.		

Wildlife habitat and observance				
Food	Variety: Low Medium High 0 **2** 4 6 8	Quantity: Low Medium High 0 **2** 4 6 8	Seasonal Availability: Low Medium High 0 **2** 4 6 8	Food - comments: No understory food source. Cones
Cover	Structural Diversity: Low Medium High 0 **2** 4 6 8	Variety and Seasonality: Low Medium High 0 **2** 4 6 8	Nesting and Denning sites: Low Medium High 0 **2** 4 6 8	Cover - comments: Potential denning in large tree trunks, Good tree canopy, no understory
Unique features	Wildlife: **Not diverse** Somewhat Very **0** 1 2 4	Flora: Not unique **Somewhat** Very 0 **2** 4	Rarity of Habitat Type: Not rare **Somewhat** Very 0 **2** 4	Unique features – comments: Madrones. Significant, large mature trees and canopy
Human Disturbance	Habitat modification, structures, etc.: **High** Medium Low **0** 2 4 6 8	Direct human disturbance (lights, noise, pets, trails).: **High** Medium Low **0** 2 4 6 8	Severity; permanence: High **Medium** Low 0 2 **4** 6 8	Disturbance – comments: Trails, well maintained, significant seasonal (good weather) use – ball fields, play structures
Important Habitat Features	Interspersion w/other habitats: **Low** Medium High **0** 1 3 5 6	Downed wood, stumps, snags: **Low** Medium High **0** 2 4 6 8	% non-native herbs 100% **80%** 50% 10% 0% 0 **1** 2 3 4 % non-native shrubs 100% 80% 50% 10% 0% 0 1 2 3 4	% non-native canopy 100% 80% 50% **10%** 0% 0 1 2 **3** 4
Other	Rarity of terrestrial habitat type – describe: (presence/absence, e.g., oak/ madrone, native grassland): Madrone	Rarity of aquatic habitat type – describe: (presence/absence, e.g., _____)	Linkages/ connectivity – describe: (distance to habitat patches; to water; corridor)	Wildlife species observed AND/OR known to be present – describe: (include signs such as rubs, scapes, tracks, droppings) Wintering song birds

Comments (general habitat vitality -- vegetation recruitment, diversity of trees and understory, invasives, disturbance): Groundcover is turf grass, moss, bear ground – non-natives but not invasive species. Park maintenance appears to include removal of any downed wood. The Smith/Bybee Lakes trail will go through the site

Revegetation and Mitigation	Location (e.g. 1 acre along NW property line)	Vegetation Types (include canopy, shrub and herbaceous)	Other Features Enhanced (e.g. channel morphology, LWD, etc.)	Effectiveness (circle)
Month\Year: ______ Type (e.g. wetland mitigation): Mitigation				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8

Comments (predation, maintenance needs, etc.): no revegetation or mitigation on site

Chimney and Pier Park, east side

Sub-Reach Name: Linton	**Site name and ID#:** Chimney and Pier Park, east side	**Resource site observation #**
GPS point #'s **location/feature** _____ _____ _____ _____ _____ _____ _____ _____	**Photo #'s** **location/feature(s)** _____ _____ _____ _____ _____ _____ _____ _____	
Date January 31, 2006 **Time** 10:15-11:00am **Wind** _____ **Temperature** 45ºF **Precipitation:** **none**_X_ **mist**_____ **Rain**____ **Snow**_____ **other** _____ **Percent cloud cover:** **O%** _____ **33%**_____ **66%** _____ **100%**___X___ **Most recent precipitation (date)** 01/31/06	**Location of visit/viewing and viewpoints (e.g., walked SW portion of site from X to Y; viewed SW portion of site from X street - also GPS locate and take photographs)** Parking along James Street near ball fields. Walked north into site then along the northern ball fields.	**Staff name(s)/affiliations:** Naomi Tsurumi (BES) Ry Thompson (BES) Andi Gresh (BES) Roberta Jortner (BOP) Deborah Stein (BOP Mindy Brooks (BOP)

Slope (range) ____ to _____% **(Office)**	**Describe landforms present (e.g., ridgetop, hilltop, hillside, flat, rolling, ravine, terrace, bluff, river or stream bank, etc.):** Rolling but mostly flat, high points along northwest near railroad.

Vegetation	**Dominant vegetation species by water feature and vegetation classification**			
	Forest (> % canopy)	**Woodland** (> % canopy	**Shrubland**	**Herbaceous**
Approx. percent cover (select from below) trace -<1%; 1 – 10%; 10– 20% 20 – 50%; 50 – 75% 75 - 100%		20-50%	75-100% blackberry	
Dominant canopy species		Cottonwood, Alder	Apple, Maple	
Other canopy species		Maple		
Dominant shrub species (< 5 m)			blackberry	
Other shrub species				
Dominant herb species (> 5 m)		Sword fern, ivy		
Other herb species				

DBH Class (overstory trees only) – Check most representative class	**Snag abundance and size – (Circle most representative class)**	**Sensitive, unique, or rare plant species – describe (presence, extent, dominance):**	**Disturbance – invasives, human uses, development lights, noise, domestic animals**
DBH < 0 - 12" __X___	DBH < 0 - 12" Absent Low Med High		Heavy truck traffic, louder than southern vegetation patch. Industrial land uses. The woodland patch is steeply sloping up to Highway 30 and riprapped. Shrubland are along the train tracks.
DBH 12 – 24" _____	DBH 12 – 24" Absent Low Med High		
DBH > 24" _____	DBH > 24" Absent Low Med High		
Vegetation Comments: (existing quality and condition; restoration options):	All vegetation patches are isolated. The Woodland patch has OK canopy cover and sword fern ground cover, but is completely isolated from River and Forest Park as well as separate from the shrubland patches.		

Water	**Water Feature Type(s) – (check all that apply)**	**Morphology, complexity, alteration, – describe: (channel stability, erosion, down-cutting)**	**Shading (circle one):** **None Partial Full**
Indications (circle) : Channel ☑ Standing/flowing water ☑ Silt Drift lines Flood debris Water marks Saturated soils Hydrophilic vegetation	River ___ Stream (perennial) __X_ Stream (seasonal/intermittent) ____ Wetland (HGM Class) ____ Pond/Lake ___	Three steams are piped under the area. One near the northern portion is daylighted through the woodland.	**Water Appearance: (circle all that apply)** **Clear Murky Dirty Oil Sheen Other:**
Seasonal availability and quantity: Low Medium High **0** 2 4 6 8	Diversity: (streams, wetlands, ponds) Low Medium High **0** 2 4 6 8	Channel Quality (complexity, morphology): Low Medium High **0** 1 3 5 6	Proximity to cover: Low Medium High 0 2 4 6 8
Comments:	Unable to look at the daylight stream – quality unknown.		

Bank	**Bank vegetation (if applicable)**		**Disturbance: (invasives, human uses, development, lights, noise, domestic animals)**
Bank treatment type(s): (cirlce all that apply) Vegetated Rip rap – vegetated Rip rap – non-vegetated Seawall Beach Mix (describe):	**Canopy % Cover**: _____ **Dominate species:** **Shrub % Cover**:_____ **Dominate species:** blackberry **Herb % Cover**:_____ **Dominate species:**	**Open water shading:** None___ Sparse____ Partial____ Most ____ Complete _____	
Comments:			

Wildlife habitat and observance				
Food	Variety: Low **Medium** High 0 2 **4** 6 8	Quantity: Low Medium High 0 **2** 4 6 8	Seasonal Availability: Low Medium High 0 **2** 4 6 8	Food - comments: blackberries
Cover	Structural Diversity: Low Medium High 0 **2** 4 6 8	Variety and Seasonality: Low Medium High 0 **2** 4 6 8	Nesting and Denning sites: Low Medium High 0 **2** 4 6 8	Cover - comments: Lacks significant structural diversity
Unique features	Wildlife: **Not diverse** Somewhat Very **0** 2 4	Flora: **Not unique** Somewhat Very **0** 2 4	Rarity of Habitat Type: **Not rare** Somewhat Very **0** 2 4	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: **High** Medium Low **0** 2 4 6 8	Direct human disturbance (lights, noise, pets, trails).: **High** Medium Low **0** 2 4 6 8	Severity; permanence: **High** Medium Low **0** 2 4 6 8	Disturbance – comments: Heavy truck traffic, train, industrial land uses, Highway 30
Important Habitat Features	Interspersion w/other habitats: **Low** Medium High **0** 1 3 5 6	Downed wood, stumps, snags: **Low** Medium High **0** 2 4 6 8	% non-native herbs 100% 80% **50%** 10% 0% 0 1 **2** 3 4 % non-native shrubs **100%** 80% 50% 10% 0% **0** 1 2 3 4	% non-native canopy 100% 80% 50% **10%** 0% 0 1 2 **3** 4
Other	Rarity of terrestrial habitat type – describe: (presence/absence, e.g., oak/ madrone, native grassland): None	Rarity of aquatic habitat type – describe: (presence/absence, e.g., _____) None	Linkages/ connectivity – describe: (distance to habitat patches; to water; corridor) Close to the River, separated by train tracks. Close to Forest Park, separated by Highway 30	Wildlife species observed AND/OR known to be present – describe: (include signs such as rubs, scapes, tracks, droppings) finch, sparrow
Comments (general habitat vitality -- vegetation recruitment, diversity of trees and understory, invasives, disturbance):				

Revegetation and Mitigation	Location (e.g. 1 acre along NW property line)	Vegetation Types (include canopy, shrub and herbaceous)	Other Features Enhanced (e.g. channel morphology, LWD, etc.)	Effectiveness (circle)
Month\Year: < 2000 Type (e.g. wetland mitigation): Reveg	Multiple – see map	Shrub and herbaceous		Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Comments (predation, maintenance needs, etc.):				

Linnton – Northern Portion

Sub-Reach Name: Confluence	**Site name and ID#:** WR6 Linnton – Northern Portion	**Resource site observation #**
GPS point #'s **location/feature** _____ _____ _____ _____ _____ _____ _____ _____	**Photo #'s** **location/feature(s)** _____ _____ _____ _____ _____ _____ _____ _____	
Date February 15, 2006 **Time** 10:15-10:30am **Wind** _____ **Temperature** 45ºF **Precipitation:** **none**_X_ **mist**_____ **Rain**____ **Snow**_____ **other** _____ **Percent cloud cover:** **O%** __X__ **33%**_____ **66%** _____ **100%**_____ **Most recent precipitation (date)** 02/15/06	**Location of visit/viewing and viewpoints (e.g., walked SW portion of site from X to Y; viewed SW portion of site from X street - also GPS locate and take photographs)** Took Unnamed Road (souther of 112th Ave from Highway 30, south and parked along woodland patch.	**Staff name(s)/affiliations:** Chris Prescott (ESA) Josh Robben (BES) Ry Thompson (BES) Lynn Barlow (BES) Roberta Jortner (BOP) Mindy Brooks (BOP) Kevin Martin (BOP

Slope (range)	**Describe landforms present (e.g., ridgetop, hilltop, hillside, flat, rolling, ravine, terrace, bluff, river or stream bank, etc.):**
____ **to** _____**%** **(Office)**	Steep slope from industrial land uses up to Highway 30.

Vegetation	**Dominant vegetation species by water feature and vegetation classification**			
	Forest (> % canopy)	**Woodland** (> % canopy	**Shrubland**	**Herbaceous**
Approx. percent cover (select from below) trace -<1%; 1 – 10%; 10– 20% 20 – 50%; 50 – 75% 75 - 100%	75-100% (ecept in center where it's 20-50%)			
Dominant canopy species	Cottonwood, Alder			
Other canopy species				
Dominant shrub species (< 5 m)	Blackberries			
Other shrub species	Scotch Broom			
Dominant herb species (> 5 m)	Sword fern			
Other herb species				

DBH Class (overstory trees only) – Check most representative class	**Snag abundance and size – (Circle most representative class)**	**Sensitive, unique, or rare plant species – describe (presence, extent, dominance):**	**Disturbance – invasives, human uses, development lights, noise, domestic animals**
DBH < 0 - 12" __X___	DBH < 0 - 12" Absent Low Med High		The forest patch is between Highway 30 and industrial land uses. Heavy truck traffic but not very loud as compared to other industrialized areas.
DBH 12 – 24" _____	DBH 12 – 24" Absent Low Med High		
DBH > 24" _____	DBH > 24" Absent Low Med High		
Vegetation Comments: (existing quality and condition; restoration options):	Good canopy that gets sparce in the center of the patch but thickens back up towards the north. Not much structural diversity.		

Water	**Water Feature Type(s) – (check all that apply)**	**Morphology, complexity, alteration, – describe: (channel stability, erosion, down-cutting)**	**Shading (circle one):** **None Partial Full**
Indications (circle) : Channel ☑ Standing/flowing water ☑ Silt Drift lines Flood debris Water marks Saturated soils Hydrophilic vegetation	River ____ Stream (perennial) __X_ Stream (seasonal/intermittent) ____ Wetland (HGM Class) ____ Pond/Lake ___	Three streams are piped under the site. One, the center stream, daylights in the forest patch then returns to a pipe to the River. The daylighted portion is in a concrete channel with a grate over the top.	**Water Appearance: (circle all that apply)** **Clear Murky Dirty Oil Sheen Other:**
Seasonal availability and quantity: **Low** Medium High **0** 2 4 6 8	Diversity: (streams, wetlands, ponds) **Low** Medium High **0** 2 4 6 8	Channel Quality (complexity, morphology): **Low** Medium High **0** 1 3 5 6	Proximity to cover: **Low** Medium High **0** 2 4 6 8
Comments:	Because the daylighted portion of the stream is in a concrete channel and grated, it is unavailable to wildlife use.		

Bank	**Bank vegetation (if applicable)**		**Disturbance: (invasives, human uses, development, lights, noise, domestic animals)**
Bank treatment type(s): (cirlce all that apply) Vegetated Rip rap – vegetated Rip rap – non-vegetated Seawall Beach Mix (describe):	**Canopy % Cover**: _____ **Dominate species:** **Shrub % Cover**:_____ **Dominate species:** blackberry **Herb % Cover**:_____ **Dominate species:**	**Open water shading:** None___ Sparse____ Partial____ Most ____ Complete _____	
Comments:			

Wildlife habitat and observance				
Food	Variety: Low Medium High 0 **2** 4 6 8	Quantity: Low Medium High 0 **2** 4 6 8 blackberries	Seasonal Availability: **Low** Medium High **0** 2 4 6 8	Food - comments: Low layer food only; Ash, snowberry, cottonwoods
Cover	Structural Diversity: Low **Medium** High 0 2 **4** 6 8	Variety and Seasonality: Low Medium High 0 **2** 4 6 8	Nesting and Denning sites: Low **Medium** High 0 2 **4** 6 8	Cover - comments: Lacks significant structural diversity – high and low cover only
Unique features	Wildlife: Not diverse **Somewhat** Very 0 **2** 4	Flora: **Not unique** Somewhat Very **0** 2 4	Rarity of Habitat Type: **Not rare** Somewhat Very **0** 2 4	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: High **Medium** Low 0 2 **4** 6 8	Direct human disturbance (lights, noise, pets, trails).: High **Medium** Low 0 2 **4** 6 8	Severity; permanence: **High** Medium Low **0** 2 4 6 8	Disturbance – comments: Narrow corridor; canoe launch; access road to park; edge effect on south side (Port property)
Important Habitat Features	Interspersion w/other habitats: Low Medium **High** 0 1 3 5 **6**	Downed wood, stumps, snags: Low Medium High 0 **2** 4 6 8	% non-native herbs 100% 80% **50%** 10% 0% 0 1 **2** 3 4 % non-native shrubs 100% 80% **50%** 10% 0% 0 1 **2** 3 4	% non-native canopy 100% 80% **50%** 10% 0% 0 1 **2** 3 4
Other	Rarity of terrestrial habitat type – describe: (presence/absence, e.g., oak/ madrone, native grassland): None	Rarity of aquatic habitat type – describe: (presence/absence, e.g., _____) Tidal, off-channel habitat	Linkages/ connectivity – describe: (distance to habitat patches; to water; corridor) Connected to Willamette, Columbia River, Smith/Bybee Lakes and the Lower Slough	Wildlife species observed AND/OR known to be present – describe: (include signs such as rubs, scapes, tracks, droppings) Coyote, heron, raptors, nutria
Comments (general habitat vitality -- vegetation recruitment, diversity of trees and understory, invasives, disturbance):				

Revegetation and Mitigation	Location (e.g. 1 acre along NW property line)	Vegetation Types (include canopy, shrub and herbaceous)	Other Features Enhanced (e.g. channel morphology, LWD, etc.)	Effectiveness (circle)
Month\Year: < 2000 Type (e.g. wetland mitigation): Reveg	Multiple – see map	Shrub and herbaceous		Low Medium High 0 2 4 **6** 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Month\Year: ______ Type:				Low Medium High 0 2 4 6 8
Comments (predation, maintenance needs, etc.): Revegeation (see map) to remove blackberries and jump start an understory/herbaceous layer. Now past the 5-year maintenance window.				

Linnton – Northern Portion

Sub-Reach Name: Confluence	**Site name and ID#:** WR6 Linnton – Northern Portion	**Resource site observation #**
GPS point #'s location/feature _____ _____ _____ _____ _____ _____ _____ _____	**Photo #'s** location/feature(s) _____ _____ _____ _____ _____ _____ _____ _____	
Date February 15, 2006 **Time** 10:15-10:30am **Wind** _____ **Temperature** 45ºF **Precipitation: none**_X_ **mist**_____ **Rain**____ **Snow**_____ **other** _____ **Percent cloud cover: O%** __X__ **33%**_____ **66%** _____ **100%**_____ **Most recent precipitation (date)** 02/15/06	**Location of visit/viewing and viewpoints (e.g., walked SW portion of site from X to Y; viewed SW portion of site from X street - also GPS locate and take photographs)** Took Unnamed Road (souther of 112th Ave from Highway 30, south and parked along woodland patch.	**Staff name(s)/affiliations:** Chris Prescott (ESA) Josh Robben (BES) Ry Thompson (BES) Lynn Barlow (BES) Roberta Jortner (BOP) Mindy Brooks (BOP) Kevin Martin (BOP

Slope (range) ____ to _____% **(Office)**	**Describe landforms present (e.g., ridgetop, hilltop, hillside, flat, rolling, ravine, terrace, bluff, river or stream bank, etc.):** Steep slope from industrial land uses up to Highway 30.

Vegetation	**Dominant vegetation species by water feature and vegetation classification**						
	Stream	**Wetland**	**Water body**	**Forest** (> % canopy)	**Woodland** (> % canopy	**Shrubland**	**Herbaceous**
Approx. percent cover (select from below) trace -<1%; 1 – 10%; 10– 20% 20 – 50%; 50 – 75% 75 - 100%						50%	50%
Dominant herb species							
Dominant shrub species (< 5 m)						Himalayan blackberry	Reed canary grass
Dominant canopy species (>5m)							

DBH Class (overstory trees only) – Check most representative class	**Snag abundance and size – (Circle most representative class)**	**Sensitive, unique, or rare plant species – describe (presence, extent, dominance):**	**Disturbance – invasives, human uses, development lights, noise, domestic animals**
DBH < 0 - 12" _____	DBH < 0 - 12" Absent Low Med High		**Clamatis**
DBH 12 – 24" _____	DBH 12 – 24" Absent Low Med High		
DBH > 24" _____	DBH > 24" Absent Low Med High		

Vegetation Comments: (existing quality and condition; restoration options):	Highly impacted

Water	**Water Feature Type(s) – (check all that apply)**	**Morphology, complexity, alteration, – describe: (channel stability, erosion, down-cutting)**	**Shading (circle one):** **None ☒ Partial Full**
Indications (circle) : Channel Standing/flowing water Silt Drift lines Flood debris Water marks Saturated soils Hydrophilic vegetation	River _X__ Stream (perennial) ____ Stream (seasonal/intermittent) ____ Wetland (HGM Class) ____ Pond/Lake ___	Steepened bank, but not eroding	**Water Appearance: (circle all that apply)** **Clear Murky Dirty Oil Sheen Other:**
Seasonality and quantity: Low Medium High 0 4 **8**	Diversity: (streams, wetlands, ponds) Low Medium High **0** 4 8	Channel Quality (complexity, morphology): Low Medium High **0** 3 6	Proximity to cover: Low Medium High 0 **4** 8
Comments:	In-water structures - dock		

Bank	**Bank vegetation (if applicable)**		**Disturbance: (invasives, human uses, development, lights, noise, domestic animals)**
Bank treatment type(s): (cirlce all that apply) Vegetated Rip rap – vegetated Rip rap – non-vegetated Seawall Beach Mix (describe): fill	Canopy % Cover:_____ Dominate species: Shrub % Cover:__50___ Dominate species: Herb % Cover:___50__ Dominate species:	Open water shading: None_X__ Sparse____ Partial____ Most ____ Complete _____	Docks and morage
Comments:	Not much riprap – easy to plant into		

Wildlife habitat and observance				
Food	Variety: Low Medium High **0** 4 8	Quantity: Low Medium High **0** 4 8	Seasonality Low Medium High **0** 4 8	Food - comments:
Cover	Structural Diversity: Low Medium High **0** 4 8	Variety and Seasonality: Low Medium High **0** 4 8	Nesting and Denning sites: Low Medium High **0** 4 8	Cover - comments:
Unique features	Wildlife: Not diverse Somewhat Very 0 **2** 4	Flora: Not unique Somewhat Very **0** 2 4	Rarity of Habitat Type: Not rare Somewhat Very **0** 2 4	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: High Medium Low **0** 4 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low **0** 4 8	Severity; permanence: High Medium Low **0** 4 8	Disturbance – comments:
Important Habitat Features	Interspersion w/other habitats: High Medium Low 0 **3** 6	Downed wood, stumps, snags: High Medium Low **0** 4 8	% non-native herbs 100% 80% 50% 10% 0% **0** 1 2 3 4 % non-native shrubs 100% 80% 50% 10% 0% **0** 1 2 3 4	% non-native canopy 100% 880% 50% 10% 0% 0 1 2 3 4
Other	Rarity of terrestrial habitat type – describe: (presence/absence, e.g., oak/ madrone, native grassland):	Rarity of aquatic habitat type – describe: (presence/absence, e.g., _____)	Linkages/ connectivity – describe: (distance to habitat patches; to water; corridor) to Willamette River and across river	Wildlife species observed AND/OR known to be present – describe: (include signs such as rubs, scapes, tracks, droppings) goose, Great Blue Heron, swallows, (suspect) Osprey, (suspect) fish
Comments (general habitat vitality -- vegetation recruitment, diversity of trees and understory, invasives, disturbance):				

Revegetation and Mitigation	Location (e.g. 1 acre along NW property line)	Vegetation Types (include canopy, shrub and herbaceous)	Other Features Enhanced (e.g. channel morphology, LWD, etc.)	Effectiveness (circle)
Month\Year: ______ Type (e.g. wetland mitigation):				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Comments (predation, maintenance needs, etc.):				

Linnton – Southern Portion

Sub-Reach Name: Confluence	**Site name and ID#:** WR6 Linnton – Southern Portion	**Resource site observation #**
GPS point #'s **location/feature** _____ _____ _____ _____ _____ _____ _____ _____	**Photo #'s** **location/feature(s)** _____ _____ _____ _____ _____ _____ _____ _____	
Date February 15, 2006 **Time** 10:30-10:45am **Wind** _____ **Temperature** 45ºF **Precipitation:** **none**_X_ **mist**_____ **Rain**____ **Snow**_____ **other** _____ **Percent cloud cover:** **O%** __X__ **33%**_____ **66%** _____ **100%**_____ **Most recent precipitation (date)** 02/15/06	**Location of visit/viewing and viewpoints (e.g., walked SW portion of site from X to Y; viewed SW portion of site from X street - also GPS locate and take photographs)** From NW Ferry Street, drove north along Unnamed Road. Walked along the central portion of the vegetation patch	**Staff name(s)/affiliations:** Chris Prescott (ESA) Josh Robben (BES) Ry Thompson (BES) Lynn Barlow (BES) Roberta Jortner (BOP) Mindy Brooks (BOP) Kevin Martin (BOP

Slope (range) ____ to _____% **(Office)**	**Describe landforms present (e.g., ridgetop, hilltop, hillside, flat, rolling, ravine, terrace, bluff, river or stream bank, etc.):** Industrial uses along the River. Area of forest vegetation between industrial uses and Highway 30.

Vegetation	Dominant vegetation species by water feature and vegetation classification						
	Stream	Wetland	Water body	Forest (> % canopy)	Woodland (> % canopy	Shrubland	Herbaceous
Approx. percent cover (select from below) trace -<1%; 1 – 10%; 10– 20% 20 – 50%; 50 – 75% 75 - 100%					35%		100%
Dominant herb species							
Dominant shrub species (< 5 m)							
Dominant canopy species (>5m)					Cottonwood/Doug Fir		grasses

DBH Class (overstory trees only) – Check most representative class	Snag abundance and size – (Circle most representative class)	Sensitive, unique, or rare plant species – describe (presence, extent, dominance):	Disturbance – invasives, human uses, development lights, noise, domestic animals
DBH < 0 - 12" _____	DBH < 0 - 12" Absent Low☒ Med High	White Oak	Condos, parking, docks
DBH 12 – 24" _____	DBH 12 – 24" Absent Low Med High		
DBH > 24" ___X__	DBH > 24" Absent Low Med High		
Vegetation Comments: (existing quality and condition; restoration options):	Dwindling bluff – remnant Oak, Cottonwood, Big Leaf Maple, Doug Fir and Oregon Ask		

Water	Water Feature Type(s) – (check all that apply)	Morphology, complexity, alteration, – describe: (channel stability, erosion, down-cutting)	Shading (circle one): None Partial Full
Indications (circle) : Channel Standing/flowing water Silt Drift lines Flood debris Water marks Saturated soils Hydrophilic vegetation	River _X__ Stream (perennial) ____ Stream (seasonal/intermittent) ____ Wetland (HGM Class) ____ Pond/Lake ___		Water Appearance: (circle all that apply) Clear Murky Dirty Oil Sheen Other:
Seasonality and quantity: Low 0 Medium 4 High 8	Diversity: (streams, wetlands, ponds) Low 0 Medium 4 High 8	Channel Quality (complexity, morphology): Low 0 Medium 3 High 6	Proximity to cover: Low 0 Medium 4 High 8
Comments:	**Access to river across maintain lawn**		

Bank	Bank vegetation (if applicable)		Disturbance: (invasives, human uses, development, lights, noise, domestic animals)
Bank treatment type(s): (cirlce all that apply) Vegetated Rip rap – vegetated Rip rap – non-vegetated Seawall Beach Mix (describe):	Canopy % Cover:_____ Dominate species: Shrub % Cover:_____ Dominate species: Herb % Cover:_____ Dominate species:	Open water shading: None___ Sparse____ Partial____ Most ____ Complete _____	
Comments:			

Wildlife habitat and observance				
Food	Variety: Low Medium High 0 **4** 8	Quantity: Low Medium High **0** 4 8	Seasonality Low Medium High **0** 4 8	Food - comments:
Cover	Structural Diversity: Low Medium High **0** 4 8	Variety and Seasonality: Low Medium High **0** 4 8	Nesting and Denning sites: Low Medium High **0** 4 8	Cover - comments:
Unique features	Wildlife: Not diverse Somewhat Very **0** 2 4	Flora: Not unique Somewhat Very 0 **2** 4	Rarity of Habitat Type: Not rare Somewhat Very 0 **2** 4	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: High Medium Low **0** 4 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low **0** 4 8	Severity; permanence: High Medium Low **0** 4 8	Disturbance – comments: condos, parking, moorage use
Important Habitat Features	Interspersion w/other habitats: High Medium Low 0 3 **6**	Downed wood, stumps, snags: High Medium Low 0 4 **8**	% non-native herbs 100% 80% 50% 10% 0% 0 1 2 3 4 % non-native shrubs 100% 80% 50% 10% 0% 0 1 2 3 4	% non-native canopy 100% 880% 50% 10% 0% 0 1 2 3 4
Other	Rarity of terrestrial habitat type – describe: (presence/absence, e.g., oak/ madrone, native grassland):	Rarity of aquatic habitat type – describe: (presence/absence, e.g., _____)	Linkages/ connectivity – describe: (distance to habitat patches; to water; corridor)	Wildlife species observed AND/OR known to be present – describe: (include signs such as rubs, scapes, tracks, droppings) Cooper's Hawk
Comments (general habitat vitality -- vegetation recruitment, diversity of trees and understory, invasives, disturbance): Swift, suspect/signs – raccoon, deer				

Revegetation and Mitigation	**Location (e.g. 1 acre along NW property line)**	**Vegetation Types (include canopy, shrub and herbaceous)**	**Other Features Enhanced (e.g. channel morphology, LWD, etc.)**	**Effectiveness (circle)**
Month\Year: ______ Type (e.g. wetland mitigation):				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Comments (predation, maintenance needs, etc.):				

Rowing Club - Banks

Sub-Reach Name: Selwood	**Site name and ID#:** Rowing Club - banks	**Resource site observation #**
GPS point #'s **location/feature** _____ _____ _____ _____ _____ _____ _____ _____	**Photo #'s** **location/feature(s)** _____ _____ _____ _____ _____ _____ _____ _____	
Date__5-18-06_____ **Time**__9:30a_____ **Wind** __Y__ **Temperature**____75_____ **Precipitation: none**__X_ **mist**_____ **Rain**____ **Snow**_____ **other** _____ **Percent cloud cover: O%** ___X__ **33%**_____ **66%** _____ **100%**_____ **Most recent precipitation (date)** _____	**Location of visit/viewing and viewpoints (e.g., walked SW portion of site from X to Y; viewed SW portion of site from X street - also GPS locate and take photographs)** Parking lot at Rowing Club, down walkway to dock	**Staff name(s)/affiliations:** Chris Prescott (ESA) Naomi Tsurumi (BES) Ry Thompson (BES) Lynn Barlow (BES) Roberta Jortner (BOP) Mindy Brooks (BOP)

Slope (range) ____ to _____% **(Office)**	**Describe landforms present (e.g., ridgetop, hilltop, hillside, flat, rolling, ravine, terrace, bluff, river or stream bank, etc.):** Maintained lawn to steep bank with invasive cover

Vegetation	**Dominant vegetation species by water feature and vegetation classification**						
	Stream	**Wetland**	**Water body**	**Forest** (> % canopy)	**Woodland** (> % canopy	**Shrubland**	**Herbaceous**
Approx. percent cover (select from below) trace -<1%; 1 – 10%; 10– 20% 20 – 50%; 50 – 75% 75 - 100%							**100%**
Dominant herb species							**turf**
Dominant shrub species (< 5 m)							
Dominant canopy species (>5m)							

DBH Class (overstory trees only) – Check most representative class	**Snag abundance and size – (Circle most representative class)**	**Sensitive, unique, or rare plant species – describe (presence, extent, dominance):**	**Disturbance – invasives, human uses, development lights, noise, domestic animals**
DBH < 0 - 12" _____	DBH < 0 - 12" Absent☒ Low Med High	Ramnant White Oak	Park uses, trail
DBH 12 – 24" _____	DBH 12 – 24" Absent☒ Low Med High		
DBH > 24" ___X___	DBH > 24" Absent☒ Low Med High		

Vegetation Comments: (existing quality and condition; restoration options):	Remnant White oak, one large cottonwood, Western Read Cedar and landscaped understory/groundcover

Water	**Water Feature Type(s) – (check all that apply)**	**Morphology, complexity, alteration, – describe: (channel stability, erosion, down-cutting)**	**Shading (circle one):** **None Partial Full**
Indications (circle) : Channel Standing/flowing water Silt Drift lines Flood debris Water marks Saturated soils Hydrophilic vegetation	River ___ Stream (perennial) ____ Stream (seasonal/intermittent) ____ Wetland (HGM Class) ____ Pond/Lake ___		**Water Appearance: (circle all that apply)** **Clear Murky Dirty Oil Sheen Other:**
Seasonality and quantity: Low Medium High 0 4 8	Diversity: (streams, wetlands, ponds) Low Medium High 0 4 8	Channel Quality (complexity, morphology): Low Medium High 0 3 6	Proximity to cover: Low Medium High 0 4 8
Comments:			

Bank	**Bank vegetation (if applicable)**		**Disturbance: (invasives, human uses, development, lights, noise, domestic animals)**
Bank treatment type(s): (cirlce all that apply) Vegetated Rip rap – vegetated Rip rap – non-vegetated Seawall Beach Mix (describe):	Canopy % Cover:_____ Dominate species: Shrub % Cover:_____ Dominate species: Herb % Cover:_____ Dominate species:	Open water shading: None___ Sparse____ Partial____ Most ____ Complete _____	
Comments:			

Wildlife habitat and observance				
Food	Variety: Low Medium High **0** 4 8	Quantity: Low Medium High **0** 4 8	Seasonality Low Medium High **0** 4 8	Food - comments:
Cover	Structural Diversity: Low Medium High **0** 4 8	Variety and Seasonality: Low Medium High **0** 4 8	Nesting and Denning sites: Low Medium High **0** 4 8	Cover - comments:
Unique features	Wildlife: Not diverse Somewhat Very **0** 2 4	Flora: Not unique Somewhat Very 0 **2** 4	Rarity of Habitat Type: Not rare Somewhat Very **0** 2 4	Unique features – comments: Remnant White Oak and Cottonwoods
Human Disturbance	Habitat modification, structures, etc.: High Medium Low **0** 4 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low **0** 4 8	Severity; permanence: High Medium Low 0 4 8	Disturbance – comments:
Important Habitat Features	Interspersion w/other habitats: High Medium Low 0 **3** 6	Downed wood, stumps, snags: High Medium Low 0 4 8	% non-native herbs 100% 880% 50% 10% 0% **0** 1 2 3 4 % non-native shrubs 100% 880% 50% 10% 0% 0 1 2 3 4	% non-native canopy 100% 880% 50% 10% 0% 0 **1** 2 3 4
Other	Rarity of terrestrial habitat type – describe: (presence/absence, e.g., oak/ madrone, native grassland):	Rarity of aquatic habitat type – describe: (presence/absence, e.g., _____)	Linkages/ connectivity – describe: (distance to habitat patches; to water; corridor)	Wildlife species observed AND/OR known to be present – describe: (include signs such as rubs, scapes, tracks, droppings)
Comments (general habitat vitality -- vegetation recruitment, diversity of trees and understory, invasives, disturbance): squirrels and birds				

Revegetation and Mitigation	Location (e.g. 1 acre along NW property line)	Vegetation Types (include canopy, shrub and herbaceous)	Other Features Enhanced (e.g. channel morphology, LWD, etc.)	Effectiveness (circle)
Month\Year: ______ Type (e.g. wetland mitigation):				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Comments (predation, maintenance needs, etc.):				

Rowing Club- Upland

Sub-Reach Name: Selwood	**Site name and ID#:** Rowing Club - upland	**Resource site observation #**
GPS point #'s **location/feature** _____ _____ _____ _____ _____ _____ _____ _____	**Photo #'s** **location/feature(s)** _____ _____ _____ _____ _____ _____ _____ _____	
Date__5-18-06_____ Time____9:30_____ **Wind ___X_ Temperature_____75___** **Precipitation: none_X___ mist_____** **Rain____ Snow_____ other _____** **Percent cloud cover: O% __X___ 33%_____** **66% _____ 100%_____** **Most recent precipitation (date) _____**	**Location of visit/viewing and viewpoints (e.g., walked SW portion of site from X to Y; viewed SW portion of site from X street - also GPS locate and take photographs)** Parking lot and down walkway to view upland from bank	**Staff name(s)/affiliations:** Chris Prescott (ESA) Naomi Tsurumi (BES) Ry Thompson (BES) Lynn Barlow (BES) Roberta Jortner (BOP) Mindy Brooks (BOP

Slope (range) **____ to _____% (Office)**	**Describe landforms present (e.g., ridgetop, hilltop, hillside, flat, rolling, ravine, terrace, bluff, river or stream bank, etc.):**

Vegetation	Dominant vegetation species by water feature and vegetation classification						
	Stream	Wetland	Water body	Forest (> % canopy)	Woodland (> % canopy	Shrubland	Herbaceous
Approx. percent cover (select from below) trace -<1%; 1 – 10%; 10– 20% 20 – 50%; 50 – 75% 75 - 100%							100%
Dominant herb species							
Dominant shrub species (< 5 m)							
Dominant canopy species (>5m)							

DBH Class (overstory trees only) – Check most representative class	Snag abundance and size – (Circle most representative class)	Sensitive, unique, or rare plant species – describe (presence, extent, dominance):	Disturbance – invasives, human uses, development lights, noise, domestic animals
DBH < 0 - 12" _____	DBH < 0 - 12" Absent Low Med High	none	High – trail, condos, moorage
DBH 12 – 24" _____	DBH 12 – 24" Absent Low Med High		
DBH > 24" _____	DBH > 24" Absent Low Med High		
Vegetation Comments: (existing quality and condition; restoration options):	No trees on bank		

Water	Water Feature Type(s) – (check all that apply)	Morphology, complexity, alteration, – describe: (channel stability, erosion, down-cutting)	Shading (circle one): None ☒ Partial Full
Indications (circle) : Channel Standing/flowing water Silt Drift lines Flood debris Water marks Saturated soils Hydrophilic vegetation	River _X__ Stream (perennial) ____ Stream (seasonal/intermittent) ____ Wetland (HGM Class) ____ Pond/Lake ___		Water Appearance: (circle all that apply) Clear Murky Dirty Oil Sheen Other:
Seasonality and quantity: Low Medium High 0 4 **8**	Diversity: (streams, wetlands, ponds) Low Medium High **0** 4 8	Channel Quality (complexity, morphology): Low Medium High **0** 3 6	Proximity to cover: Low Medium High **0** 4 8
Comments:			

Bank	Bank vegetation (if applicable)		Disturbance: (invasives, human uses, development, lights, noise, domestic animals)
Bank treatment type(s): (cirlce all that apply) Vegetated Rip rap – vegetated ☒Rip rap – non-vegetated Seawall Beach Mix (describe):	Canopy % Cover:_0____ Dominate species:	Open water shading: None_X__ Sparse____ Partial____ Most ____ Complete _____	Riprap, cut cottonwood seedlings
	Shrub % Cover:__0___ Dominate species:		
	Herb % Cover:_100____ Dominate species:		
Comments:			

Wildlife habitat and observance				
Food	Variety: Low Medium High **0** 4 8	Quantity: Low Medium High 0 **4** 8	Seasonality Low Medium High **0** 4 8	Food - comments:
Cover	Structural Diversity: Low Medium High **0** 4 8	Variety and Seasonality: Low Medium High **0** 4 8	Nesting and Denning sites: Low Medium High **0** 4 8	Cover - comments:
Unique features	Wildlife: Not diverse Somewhat Very **0** 2 4	Flora: Not unique Somewhat Very **0** 2 4	Rarity of Habitat Type: Not rare Somewhat Very **0** 2 4	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: High Medium Low **0** 4 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low **0** 4 8	Severity; permanence: High Medium Low **0** 4 8	Disturbance – comments:
Important Habitat Features	Interspersion w/other habitats: High Medium Low 0 3 6	Downed wood, stumps, snags: High Medium Low 0 4 8	% non-native herbs 100% 880% 50% 10% 0% **0** 1 2 3 4 % non-native shrubs 100% 880% 50% 10% 0% **0** 1 2 3 4	% non-native canopy 100% 880% 50% 10% 0% 0 1 2 3 4
Other	Rarity of terrestrial habitat type – describe: (presence/absence, e.g., oak/ madrone, native grassland):	Rarity of aquatic habitat type – describe: (presence/absence, e.g., _____)	Linkages/ connectivity – describe: (distance to habitat patches; to water; corridor)	Wildlife species observed AND/OR known to be present – describe: (include signs such as rubs, scapes, tracks, droppings)
Comments (general habitat vitality -- vegetation recruitment, diversity of trees and understory, invasives, disturbance): swallows, humming birds, sparrows and starlings				

Revegetation and Mitigation	Location (e.g. 1 acre along NW property line)	Vegetation Types (include canopy, shrub and herbaceous)	Other Features Enhanced (e.g. channel morphology, LWD, etc.)	Effectiveness (circle)
Month\Year: ______ Type (e.g. wetland mitigation):				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Comments (predation, maintenance needs, etc.):				

Powers Marina - Upland

Sub-Reach Name: Selwood	**Site name and ID#:** Powers Marina - upland	**Resource site observation #**
GPS point #'s location/feature _____ _____ _____ _____ _____ _____ _____ _____	**Photo #'s** location/feature(s) _____ _____ _____ _____ _____ _____ _____ _____	
Date_5-25-06_____ Time___noon_____ **Wind __X___ Temperature____70_____** **Precipitation: none__X__ mist_____** **Rain____ Snow_____ other _____** **Percent cloud cover: O% _____ 33%_____** **66% _____ 100%___X____** **Most recent precipitation (date) ___5-25-06_____**	**Location of visit/viewing and viewpoints (e.g., walked SW portion of site from X to Y; viewed SW portion of site from X street - also GPS locate and take photographs)**	**Staff name(s)/affiliations:** Naomi Tsurumi (BES) Ry Thompson (BES) Lynn Barlow (BES) Roberta Jortner (BOP) Mindy Brooks (BOP

Slope (range) **____ to _____% (Office)**	**Describe landforms present (e.g., ridgetop, hilltop, hillside, flat, rolling, ravine, terrace, bluff, river or stream bank, etc.):**

Vegetation	**Dominant vegetation species by water feature and vegetation classification**						
	Stream	**Wetland**	**Water body**	**Forest** (> % canopy)	**Woodland** (> % canopy	**Shrubland**	**Herbaceous**
Approx. percent cover (select from below) trace -<1%; 1 – 10%; 10– 20% 20 – 50%; 50 – 75% 75 - 100%							**100%**
Dominant herb species							**turf**
Dominant shrub species (< 5 m)							
Dominant canopy species (>5m)							

DBH Class (overstory trees only) – Check most representative class	**Snag abundance and size – (Circle most representative class)**	**Sensitive, unique, or rare plant species – describe (presence, extent, dominance):**	**Disturbance – invasives, human uses, development lights, noise, domestic animals**
DBH < 0 - 12" _____	DBH < 0 - 12" Absent☒ Low Med High	Ramnant White Oak	Park uses, trail
DBH 12 – 24" _____	DBH 12 – 24" Absent☒ Low Med High		
DBH > 24" ___X___	DBH > 24" Absent☒ Low Med High		

Vegetation Comments: (existing quality and condition; restoration options):	Remnant White oak, one large cottonwood, Western Read Cedar and landscaped understory/groundcover

Water	**Water Feature Type(s) – (check all that apply)**	**Morphology, complexity, alteration, – describe: (channel stability, erosion, down-cutting)**	**Shading (circle one):** **None Partial Full**
Indications (circle) : Channel Standing/flowing water Silt Drift lines Flood debris Water marks Saturated soils Hydrophilic vegetation	River ___ Stream (perennial) ____ Stream (seasonal/intermittent) ____ Wetland (HGM Class) ____ Pond/Lake ___		**Water Appearance: (circle all that apply)** **Clear Murky Dirty Oil Sheen Other:**
Seasonality and quantity: Low Medium High 0 4 8	Diversity: (streams, wetlands, ponds) Low Medium High 0 4 8	Channel Quality (complexity, morphology): Low Medium High 0 3 6	Proximity to cover: Low Medium High 0 4 8
Comments:			

Bank	**Bank vegetation (if applicable)**		**Disturbance: (invasives, human uses, development, lights, noise, domestic animals)**
Bank treatment type(s): (cirlce all that apply) Vegetated Rip rap – vegetated Rip rap – non-vegetated Seawall Beach Mix (describe):	Canopy % Cover:_____ Dominate species: Shrub % Cover:_____ Dominate species: Herb % Cover:_____ Dominate species:	Open water shading: None___ Sparse____ Partial____ Most ____ Complete _____	
Comments:			

Wildlife habitat and observance				
Food	Variety: Low Medium High **0** 4 8	Quantity: Low Medium High **0** 4 8	Seasonality Low Medium High **0** 4 8	Food - comments:
Cover	Structural Diversity: Low Medium High **0** 4 8	Variety and Seasonality: Low Medium High **0** 4 8	Nesting and Denning sites: Low Medium High **0** 4 8	Cover - comments:
Unique features	Wildlife: Not diverse Somewhat Very **0** 2 4	Flora: Not unique Somewhat Very 0 **2** 4	Rarity of Habitat Type: Not rare Somewhat Very **0** 2 4	Unique features – comments: Remnant White Oak and Cottonwoods
Human Disturbance	Habitat modification, structures, etc.: High Medium Low **0** 4 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low **0** 4 8	Severity; permanence: High Medium Low 0 4 8	Disturbance – comments:
Important Habitat Features	Interspersion w/other habitats: High Medium Low 0 **3** 6	Downed wood, stumps, snags: High Medium Low 0 4 8	% non-native herbs 100% 880% 50% 10% 0% **0** 1 2 3 4 % non-native shrubs 100% 880% 50% 10% 0% 0 1 2 3 4	% non-native canopy 100% 880% 50% 10% 0% 0 **1** 2 3 4
Other	Rarity of terrestrial habitat type – describe: (presence/absence, e.g., oak/ madrone, native grassland):	Rarity of aquatic habitat type – describe: (presence/absence, e.g., _____)	Linkages/ connectivity – describe: (distance to habitat patches; to water; corridor)	Wildlife species observed AND/OR known to be present – describe: (include signs such as rubs, scapes, tracks, droppings)
Comments (general habitat vitality -- vegetation recruitment, diversity of trees and understory, invasives, disturbance): squirrels and birds				

Revegetation and Mitigation	Location (e.g. 1 acre along NW property line)	Vegetation Types (include canopy, shrub and herbaceous)	Other Features Enhanced (e.g. channel morphology, LWD, etc.)	Effectiveness (circle)
Month\Year: ______ Type (e.g. wetland mitigation):				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Comments (predation, maintenance needs, etc.):				

Cottonwood Bay - South

Sub-Reach Name: Selwood	**Site name and ID#:** Cottonwood Bay South	**Resource site observation #**
GPS point #'s location/feature _____ _____ _____ _____ _____ _____ _____ _____	**Photo #'s** location/feature(s) _____ _____ _____ _____ _____ _____ _____ _____	
Date___5-25-06____ **Time**___2:30_____ **Wind** __X__ **Temperature**____70_____ **Precipitation: none_X**___ **mist**_____ **Rain**____ **Snow**_____ **other** _____ **Percent cloud cover: O%** _____ **33%**_____ **66%** _____ **100%**___X____ **Most recent precipitation (date)** __5-25-06_____	**Location of visit/viewing and viewpoints (e.g., walked SW portion of site from X to Y; viewed SW portion of site from X street - also GPS locate and take photographs)**	**Staff name(s)/affiliations:** Naomi Tsurumi (BES) Ry Thompson (BES) Lynn Barlow (BES) Roberta Jortner (BOP) Mindy Brooks (BOP

Slope (range) ____ to _____% **(Office)**	**Describe landforms present (e.g., ridgetop, hilltop, hillside, flat, rolling, ravine, terrace, bluff, river or stream bank, etc.):** **Bamboo along condos to south**

Vegetation	Dominant vegetation species by water feature and vegetation classification						
	Stream	Wetland	Water body	Forest (> % canopy)	Woodland (> % canopy	Shrubland	Herbaceous
Approx. percent cover (select from below) trace -<1%; 1 – 10%; 10– 20% 20 – 50%; 50 – 75% 75 - 100%							100%
Dominant herb species							
Dominant shrub species (< 5 m)							
Dominant canopy species (>5m)							

DBH Class (overstory trees only) – Check most representative class	Snag abundance and size – (Circle most representative class)	Sensitive, unique, or rare plant species – describe (presence, extent, dominance):	Disturbance – invasives, human uses, development lights, noise, domestic animals
DBH < 0 - 12" _____	DBH < 0 - 12" Absent Low Med High	none	High – trail, condos, moorage
DBH 12 – 24" _____	DBH 12 – 24" Absent Low Med High		
DBH > 24" _____	DBH > 24" Absent Low Med High		
Vegetation Comments: (existing quality and condition; restoration options):	No trees on bank		

Water	Water Feature Type(s) – (check all that apply)	Morphology, complexity, alteration, – describe: (channel stability, erosion, down-cutting)	Shading (circle one): None ☒ Partial Full
Indications (circle) : Channel Standing/flowing water Silt Drift lines Flood debris Water marks Saturated soils Hydrophilic vegetation	River _X__ Stream (perennial) ____ Stream (seasonal/intermittent) ____ Wetland (HGM Class) ____ Pond/Lake ___		**Water Appearance: (circle all that apply)** Clear Murky Dirty Oil Sheen Other:
Seasonality and quantity: Low 0 Medium 4 High **8**	Diversity: (streams, wetlands, ponds) Low **0** Medium 4 High 8	Channel Quality (complexity, morphology): Low **0** Medium 3 High 6	Proximity to cover: Low **0** Medium 4 High 8
Comments:			

Bank	Bank vegetation (if applicable)		Disturbance: (invasives, human uses, development, lights, noise, domestic animals)
Bank treatment type(s): (cirlce all that apply) Vegetated Rip rap – vegetated ☒Rip rap – non-vegetated Seawall Beach Mix (describe):	Canopy % Cover:_0____ Dominate species: Shrub % Cover:__0___ Dominate species: Herb % Cover:_100____ Dominate species:	Open water shading: None_X__ Sparse____ Partial____ Most ____ Complete _____	Riprap, cut cottonwood seedlings
Comments:			

Wildlife habitat and observance				
Food	Variety: Low Medium High **0** 4 8	Quantity: Low Medium High 0 **4** 8	Seasonality Low Medium High **0** 4 8	Food - comments:
Cover	Structural Diversity: Low Medium High **0** 4 8	Variety and Seasonality: Low Medium High **0** 4 8	Nesting and Denning sites: Low Medium High **0** 4 8	Cover - comments:
Unique features	Wildlife: Not diverse Somewhat Very **0** 2 4	Flora: Not unique Somewhat Very **0** 2 4	Rarity of Habitat Type: Not rare Somewhat Very **0** 2 4	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: High Medium Low **0** 4 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low **0** 4 8	Severity; permanence: High Medium Low **0** 4 8	Disturbance – comments:
Important Habitat Features	Interspersion w/other habitats: High Medium Low 0 3 6	Downed wood, stumps, snags: High Medium Low 0 4 8	% non-native herbs 100% 880% 50% 10% 0% **0** 1 2 3 4 % non-native shrubs 100% 880% 50% 10% 0% **0** 1 2 3 4	% non-native canopy 100% 880% 50% 10% 0% 0 1 2 3 4
Other	Rarity of terrestrial habitat type – describe: (presence/absence, e.g., oak/ madrone, native grassland):	Rarity of aquatic habitat type – describe: (presence/absence, e.g., _____)	Linkages/ connectivity – describe: (distance to habitat patches; to water; corridor)	Wildlife species observed AND/OR known to be present – describe: (include signs such as rubs, scapes, tracks, droppings)
Comments (general habitat vitality -- vegetation recruitment, diversity of trees and understory, invasives, disturbance): swallows, humming birds, sparrows and starlings				

Revegetation and Mitigation	Location (e.g. 1 acre along NW property line)	Vegetation Types (include canopy, shrub and herbaceous)	Other Features Enhanced (e.g. channel morphology, LWD, etc.)	Effectiveness (circle)
Month\Year: ______ Type (e.g. wetland mitigation):				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Month\Year: ______ Type:				Low Medium High 0 4 8
Comments (predation, maintenance needs, etc.):				

Appendix D: Special Status Fish and Wildlife Species in Portland

Code	Species Name	Scienticif Name	USFWS	ODFW	ORNHIC Rank	List	NWPCC	PIF Focal Species	OWEB	ABC	City of Portland Sensitive Species
A	Northern Red-legged Frog	Rana aurora aurora	Species of Concern	SV	G4T4/S3	2	X		X		☑
A	Clouded Salamander	Aneides ferreus		SV	G3/S3	3					☑
B	Purple Martin	Progne subis	Species of Concern	SC	G5/S3B	2	X	X	X		☑
B	Loggerhead Shrike	Lanius ludovicianus		SV	G4/S3B, S2N	4					☑
B	Long-billed Curlew	Numenius americanus		SV	G5/S3B	4				Yellow List	☑
B	Merlin	Falco columbarius			G5/S1B	2					☑
B	Nashville Warbler	Vermivora ruficapilla						X			☐
B	Northern Harrier	Circus cyaneus					X	X			☐
B	Olive-sided Flycatcher	Contopus cooperi	Species of Concern	SV	G5/S4	4	X	X	X	Yellow List	☑
B	Orange-crowned Warbler	Vermivora celata						X			☐
B	Pacific-slope Flycatcher	Empidonax dificilus						X	X		☐
B	Peregrine Falcon	Falco peregrinus	American & Arctic Delisted	SV	G4/T3/S1B	2					☑
B	Swainson's Thrush	Catharus ustulatus						X			☐
B	Purple Finch	Carpodacus purpureus							X		☐
B	Hooded Merganser	Lophodytes cucullatus							X		☐
B	Red Crossbill	Loxia curvirostra						X			☐
B	Red-eyed Vireo	Vireo olivaceus					X	X			☐
B	Red-necked Grebe	Podiceps grisegena		SC	G5/S1B,S4N	2					☑
B	Rufous Hummingbird	Selasphorus rufus						X			☐

Code	Species Name	Scienticif Name	USFWS	ODFW	ORNHIC Rank	List	NWPCC	PIF Focal Species	OWEB	ABC	City of Portland Sensitive Species
B	Short-eared Owl	Asio flammeus						X	X	Yellow List	☐
B	Sora	Porzana carolina					X				☐
B	Streaked Horned Lark	Eremophila alpestris strigata	Candidate	SC	G5/T2/S2B	1	X	X	X		☑
B	Pileated Woodpecker	Dryocopus pileatus		SV	G5/S4	4	X	X			☑
B	Chipping Sparrow	Spizella passerina					X	X			☐
B	American Bittern	Botaurus lentiginosus							X		☐
B	American Kestrel	Falco sparverius					X	X	X		☐
B	American White Pelican	Pelecanus erythrorhynchos		SV	G3/S2B	2					☑
B	Bald Eagle	Haliaeetus leucocephalus	Delisted	LT	G4/S3B, S4N	2	X				☑
B	Band-tailed Pigeon	Columba fasciata	Species of Concern		G5/S4	4		X	X		☑
B	Black-throated Gray Warbler	Dendroica nigrescens						X			☐
B	Brown Creeper	Certhia americana						X			☐
B	Bufflehead	Bucephala albeola			G5/S2B,S5N	4					☑
B	Hutton's Vireo	Vireo huttoni						X			☐
B	Bushtit	Psaltriparus minimus						X			☐
B	House Wren	Troglodytes aedon						X			☐
B	Common Nighthawk	Chordeiles minor		SC	G5/S5	4					☑
B	Common Yellowthroat	Geothlypis trichas					X				☐
B	Downy Woodpecker	Picoides pubescens						X			☐
B	Dunlin	Calidris alpina					X		X		☐
B	Great Blue Heron	Ardea herodias							X		☐

Code	Species Name	Scienticif Name	USFWS	ODFW	ORNHIC Rank	List	NWPCC	PIF Focal Species	OWEB	ABC	City of Portland Sensitive Species
B	Green Heron	Butorides virescens					X				☐
B	Hammond's Flycatcher	Empidonax hammondii						X			☐
B	Hermit Warbler	Dendroica occidentalis						X		Yellow List	☐
B	Thayer's Gull	Larus thayeri								Yellow List	☐
B	Bullock's Oriole	Icterus bullockii						X	X		☐
B	Wilson's Warbler	Wilsonia pusilla						X			☐
B	Swainson's Hawk	Buteo swainsoni		SV	G5/S3B	4				Yellow List	☑
B	Yellow-breasted Chat	Icteria virens	Species of Concern	SC WV	G5/S4?	4		X			☑
B	Yellow Warbler	Dendroica petechia					X	X	X		☐
B	Winter Wren	Troglodytes troglodytes						X			☐
B	Willow Flycatcher (Little)	Empidonax traillii brewsteri		SV	G5TU/S1B	4	X	X	X	Yellow List	☑
B	White-tailed Kite	Elanus leucurus			G5/S1B, S3N	2					☑
B	Vaux's Swift	Chaetura vauxi					X	X			☐
B	Western Wood-Pewee	Contopus sordidulus					X	X			☐
B	Western Sandpiper	Calidris mauri								Yellow List	☐
B	Varied Thrush	Ixoreus naevius						X		Yellow List	☐
B	Western Meadowlark	Sturnella neglecta		SC WV	G5/S5	4	X	X	X		☑
B	Vesper Sparrow	Pooecetes gramineus	Species of Concern	SC	G5/T3/S2B, S2N	2	X	X	X		☑
B	White-breasted Nuthatch (Slender-billed)	Sitta carolinensis aculeata		SV			X	X	X		☑
B	Wood Duck	Aix sponsa					X				☐

Code	Species Name	Scienticif Name	USFWS	ODFW	ORNHIC Rank	List	NWPCC	PIF Focal Species	OWEB	ABC	City of Portland Sensitive Species
F	Steelhead, Lower Columbia River ESU	Oncorhynchus mykiss	LT	SC	G5T2Q/S2	1					☑
F	Coho Salmon, Lower Columbia R./Southwest Washington ESU	Oncorhynchus kisutch	C	LE	G4T2Q/S2	1					☑
F	Chum Salmon, Columbia River ESU	Oncorhynchus keta	LT	SC	G5T2Q/S2	1					☑
F	River Lamprey	Lampetra ayresi	SoC		G4/S4	4					☑
F	Coastal Cutthroat Trout, SW WA/Col. R. ESU	Oncorhynchus clarki clarki	PT	SC	G4T2Q/S2	2					☑
F	Steelhead, Upper Willamette River ESU, winter run	Oncorhynchus mykiss	LT	SC	G5T2Q/S2	1					☐
F	Chinook Salmon, Snake River Spr/Sum.run	Oncorhynchus tshawytscha	LT	LT	G5T1Q/S1	1					☐
F	Pacific Lamprey	Lampetra tridentata	SoC	SV	G5/S3	2					☑
F	Chinook Salmon, Upper Col. R. Spring-run	Oncorhynchus tshawytscha	LE		G5T1Q/SU						☐
F	Steelhead, Middle Columbia River ESU	Oncorhynchus mykiss	LT	SC/SV	G5T2Q/S2	1					☐
F	Steelhead, Snake River Basin ESU	Oncorhynchus mykiss	LT	SV	G5T2T3Q/S2S3	1					☐
F	Steelhead, Upper Columbia River ESU	Oncorhynchus mykiss	LE		G5T2Q/SU						☐
F	Sockeye Salmon, Snake River ESU	Oncorhynchus nerka	LE		G5T1Q/SX	1 - ex					☐
F	Chinook Salmon, Lower Columbia R. ESU	Oncorhynchus tshawytscha	LT	SC	G5T2Q/S2	1					☑

Code	Species Name	Scienticif Name	USFWS	ODFW	ORNHIC Rank	List	NWPCC	PIF Focal Species	OWEB	ABC	City of Portland Sensitive Species
F	Coastal Cutthroat Trout, Upper Will. R. ESU	Oncorhynchus clarki clarki	SoC		G4T?Q/S3?	4					☐
F	Chinook Salmon, Snake River Fall-run ESU	Oncorhynchus tshawytscha	LT	LT	G5T1Q/S1	1					☐
F	Chinook Salmon, Upper Will. R spring run	Oncorhynchus tshawytscha	LT		G5T2Q/S2	1					☐
M	Red Tree Vole	Arborimus = Phenacomys longicaudus	Species of Concern	SV	G3G4/S3S4	3	X				☑
M	Yuma Myotis	Myotis yumanensis	Species of Concern		G5/S3	4					☑
M	White-footed Vole	Arborimus = Phenacomys albipes	Species of Concern		G3G4/S3	4					☑
M	Western Gray Squirrel	Sciurus griseus		SV	G5/S4	3	X				☑
M	Silver-haired Bat	Lasionycteris noctivagans	Species of Concern	SV	G5/S3S4	4					☑
M	Northern River Otter	Lontra canadensis					X				☐
M	Long-legged Myotis	Myotis volans	Species of Concern	SV	G5/S3	4					☑
M	Long-eared Myotis	Myotis evotis	Species of Concern		G5/S3	4					☑
M	Hoary Bat	Lasiuris cinereus		SV	G5/S3	4					☑
M	Fringed Myotis	Myotis thysanodes	Species of Concern	SV	G4G5/S2	2					☑
M	Camas Pocket Gopher	Thomomys bulbivorus	Species of Concern		G3G4/S3S4	3					☑
M	California Myotis	Myotis californicus		SV	G5/S3	4					☑
M	American Beaver	Castor canadensis					X				☐
M	Townsend's Big-eared Bat	Corynorhinus townsendii townsendii	Species of Concern	SC	G4/T3T4/S2	2	X				☑

Code	Species Name	Scienticif Name	USFWS	ODFW	ORNHIC Rank	List	NWPCC	PIF Focal Species	OWEB	ABC	City of Portland Sensitive Species
R	Western Painted Turtle	Chrysemys picta bellii		SC	G5/S2	2			X		☑
R	Northwestern Pond Turtle	Actinemys marmorata	Species of Concern	SC	G3T3/S2	1	X		X		☑

Code	Species Name	Scienticif Name	USFWS	ODFW	ORNHIC Rank	List	NWPCC	PIF Focal Species	OWEB	ABC	City of Portland Sensitive Species
Code	B	bird									
	F	fish									
	A	amphibian									
	R	reptile									
	M	mammal									
Federal Status	LE	Listed Endangered	Species listed by the by the USFWS or NMFS as Endangered								
	LT	Listed Threatened	Species listed by the USFWS or NMFS as Threatened								
	PE	Proposed Endangered	Species proposed by the USFWS or NMFS to be listed as Endangered under the ESA								
	PT	Proposed Threatened	Species proposed by the USFWS or NMFS to be listed as Threatened under the ESA								
	SoC	Species of Concern	Former C2 candidates which need additional information in order to propose as Threatened or Endangered under the ESA. These are species which USFWS is reviewing for consideration as Candidates for listing under the ESA.								
	C	Candidate	Species for which NMFS or USFWS have sufficient information to support a proposal to list under the ESA								
ODFW Status	LE	Listed Endangered	Species listed by ODFW or ODA as Endangered								
	LT	Listed Threatened	listed by ODFW or ODA as Threatened								
	SC	Critical	Species for which listing as threatened or endangered is pending; or those for which listing as threatened or endangered may be appropriate if immediate conservation actions are not taken. Also considered critical are some peripheral species that are at risk throughout their range, and some disjunct populations.								
	SV	Vulnerable	Species for which listing as threatened or endangered is not believed to be imminent and can be avoided through continued or expanded use of adequate protective measures and monitoring. In some cases the population is sustainable, and protective measures are being implemented; in others, the population may be declining and improved protective measures are needed to maintain sustainable populations over time.								
	SP	Peripheral or Naturally Rare	Peripheral species refer to those whose Oregon populations are on the edge of their range. Naturally rare species are those which had low population numbers historically in Oregon because of naturally limiting factors. Maintaining the status quo for the habitats and populations of these species is a minimum requirement. Disjunct populations of several species that occur in Oregon should not be confused with peripheral.								
ODFW StratSp		Strategy Species	Identified as a 'Strategy Species' in the ODFW Comprehensive Wildlife Conservation Strategy for Oregon (2005) for the Willamette Valley Ecoregion. Strategy species are those closely associated with 'Strategy Habitats' or are declining for a variety of reasons.								
ORNHP Rank	1	Critically imperiled	Critically imperiled because of extreme rarity or because it is somehow especially vulnerable to extinction or extirpation, typically with 5 or fewer occurrences.								
	2	Imperiled	Imperiled because of rarity or because other factors demonstrably make it very vulnerable to extinction (extirpation), typically with 6-20 occurrences.								
	3	Rare	Rare, uncommon or threatened, but not immediately imperiled, typically with 21-100 occurrences.								
	4	Long-term Concern	Not rare and apparently secure, but with cause for long-term concern, usually more than 100 occurrences.								
	5	Secure	Demonstrably widespread, abundant, and secure								
	H	Historical	Historical Occurrence, formerly part of the native biota with the implied expectation that it may be rediscovered.								
	T	Trinomial	The taxon has a trinomial (a subspecies, variety or recognized race)								

Code	Species Name	Scienticif Name	USFWS	ODFW	ORNHIC Rank List	NWPCC	PIF Focal Species	OWEB	ABC	City of Portland Sensitive Species
	U	Unknown	Unknown rank.							
	NR	Not Ranked	Not yet ranked							
	G	Global Rank	The system was developed by The Nature Conservancy and is maintained by The Association for Biodiversity Information (ABI) in cooperation with Heritage Programs or Conservation Data Centers (CDCs) in all 50 states, in 4 Canadian provinces, and in 13 Latin American countries.							
	S	State Rank	The system was developed by The Nature Conservancy and is maintained by The Association for Biodiversity Information (ABI) in cooperation with Heritage Programs or Conservation Data Centers (CDCs) in all 50 states, in 4 Canadian provinces, and in 13 Latin American countries.							
	Q	Taxonomic Questions	Indicates the taxon has taxonomic questions							
	?	Uncertain	Assigned rank is uncertain.							
	X	Extirpated	Presumed extirpated or extinct.							
ORNHP List	1	Threatened or extinct	List 1 contains species that are threatened with extinction or presumed to be extinct throughout their entire range.							
	2	Threatened or extirpated	List 2 contains species that are threatened with extirpation or presumed to be extirpated from the state of Oregon. These are often peripheral or disjunct species which are of concern when considering species diversity within Oregon's borders. They can be very significant when protecting the genetic diversity of a taxon. ORNHP regards extreme rarity as a significant threat and has included species that are very rare in Oregon on this list.							
	3	Imperiled, more information needed	List 3 contains species for which more information is needed before status can be determined, but which may be threatened or endangered in Oregon or throughout their range.							
	4	Conservation concern	List 4 contains species that are of conservation concern but are not currently threatened or endangered. This includes species which are very rare but are currently secure, as well as species which are declining in numbers or habitat but are still too common to be proposed as threatened or endangered. While these species currently may not need the same active management attention as threatened or endangered species, they do require continued monitoring.							