

# Recommended Draft

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



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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 Habita**: 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
Р	Area contains sensitive or unique plant species
W	Wetlands and associated seeps, springs and streams that are part of a wetland complex
0	Native oak
В	Bottomland hardwood forest
1	Riverine island
D	River delta
Μ	Migratory stopover habitat
С	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:

- 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.

 $\underline{W}$  – 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.

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

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.

### <u>E – Elk migratory corridor</u>

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

<u>G – Upland habitat or landscape feature important to individual grassland-associated species or</u> 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>U – Resource or structure that provides critical or unique habitat function in natural or built environments</u> 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**

REA	CH Confluence		SITE N	AME - 1.1.a		SCORE 71					
LOC	ATION Kelley Point			DATE 1	2/2/99	OBSERVERS EL, TB, SB, BG					
GENERALCOMMENTS											
Fore	Forested park at the confluence of the Willamette and Columbia Rivers										
	COMPONENT		DEGRE	E	SCORE	COMMENTS					
	Quantity and	None	Seasonal	Perennial	8						
	Seasonality	0	4	8							
	Quality	Low	Medium	High	Δ						
ER	Quanty	0	4	8							
AT	Stroamsido	None	Nearby	Adjacent							
$\geq$	Vogotation	0	4	8	6						
	Diversity	Low	Med	High							
	Streams, wetlands etc.	0	2	6	6						
	Quantity and	None	Limited 4	year-round 8							
	Seasonality	Ŭ		0	5						
0L	Variety	Low	Medium	High	1						
0		0	4	0	4						
	Proximity to	None	Nearby	Adjacent							
	cover	0	3	0	5						
	Structural	Low	Medium	High							
	Diversity	0	4	8	4						
	Variety	Low	Medium	High	3						
R	Saccopality	0 Low	4 Limited	8 Year round							
N	Seasonality	0	2	4	3						
CO	Neetier	Low	Medium	High							
	Nesting,	0	2	4	4						
	Denning, etc.	Low	Modium	Lliab							
	Access	0	2	4	4						
	Physical	Permanent	temporary	none	2						
Hun	nan	0	2	4	3						
Dist	urbance	High	Medium 2	Low 4	2						
	Activity	U ave	L adiuma	lliab							
Lin	kage/	0	4	8	6						
Cor	nnectivity				-						
ыS	Rarity of habitat	Low	Medium 2	High 4	4	Large bottomland forest at major confluence					
QU	Flora	Low	Medium	High	0						
INI TAT:	-	0	2	4	0						
	Fauna	0	ivieaium 2	Hign 4	0						

# **Remnant Riparian Forest**

RE/	ACH Confluence	SCORE 60								
LOC	CATION Remnant Ri	parian Fo	rest	12/2/99	OBSERVERS EL, TB, SB, BG					
GE	GENERALCOMMENTS									
Ripa	arian forest and wetland	d located a	it Terminal	5						
	COMPONENT		DEGRE	E	SCORE	COMMENTS				
rer	Quantity and Seasonality	None 0	Seasonal 4	Perennial 8	8					
	Quality	Low O	Medium 4	High 8	3					
WA.	Streamside Vegetation	None 0	Nearby 4	Adjacent 8	4					
	Diversity Streams, wetlands etc.	Low O	Med 2	High 6	6					
	Quantity and Seasonality	None O	Limited 4	year-round 8	5					
	Variety	Low O	Medium 4	High 8	4					
	Proximity to cover	None O	Nearby 3	Adjacent 6	4					
	Structural Diversity	Low O	Medium 4	High 8	4					
~	Variety	Low 0	Medium 4	High 8	4					
OVEI	Seasonality	Low O	Limited 2	Year round 4	2					
C	Nesting, Denning, etc.	Low O	Medium 2	High 4	3					
	Access	Low 0	Medium 2	High 4	2					
Hur	Physical nan	Permanent 0	temporary 2	none 4	2					
Dist	urbance Activity	High 0	Medium 2	Low 4	3					
Lin Cor	kage/ nnectivity	Low O	Medium 4	High 8	4					
JE	Rarity of habitat	Low 0	Medium 2	High 4	2	Forested wetland, riparian gallery				
ATUR	Flora	Low O	Medium 2	High 4	0					
<u>ا</u> ا	Fauna	Low O	Medium 2	High 4	0					

## South Rivergate Corridor

REA	CH Confluence		SITE N	9	SCORE 71					
LOC	ATION South River	gate Corr	2/2/99	OBSERVERS EL, TB, SB, BG						
GE	GENERALCOMMENTS									
Pow	erline corridor with shr	ub-scrub v	vetland bo	rdering and cro	ssed by Time Oil R	oad				
	COMPONENT		DEGRE	E	SCORE	COMMENTS				
	Quantity and	None	Seasonal	Perennial	0					
	Seasonality	0	4	8	8					
~	Ouality	Low	Medium	High						
Ш		0	4	8	4					
AT	Streamside	None	Nearby	Adjacent						
≥	Vegetation	0	4	8	6					
	Divorcity	Low	Med	Hiah						
	Streams, wetlands etc.	0	2	6	6					
		Nama	Lineitod	voor round						
	Quantity and	0	4	8	_					
	Seasonality				5					
ō	Variety	Low	Medium 1	High	Δ					
E D E		0	T	0						
	Proximity to	None	Nearby	Adjacent						
	cover	0	3	0	4					
	Structural	Low	Medium	High						
	Diversity	0	4	8	4					
	Variaty	Low	Medium	High	4					
2	variety	0	4	8	4					
ΝE	Seasonality	Low	Limited 2	Year round	3					
Ó		Ŭ	2	т	5					
0	Nesting,	Low	Medium	High	2					
	Denning, etc.	0	Z	4	5					
	Access	Low	Medium	High	2					
		0	2	4	2					
U~	Physical	Permanent 0	temporary 2	none 4	1					
Dist	urhance	High	Medium	Low						
DISC	Activity	0	2	4	3					
Lin	kage/	Low	Medium	High						
Cor	nectivity	0	4	8	6					
	Darity of babitat	Low	Medium	Hiah		OW, EM, SS wetland complex				
JE RES	Name of Habital	0	2	4	4	· · · · · · · · · · · · · · · · · · ·				
IOL	Flora	Low	Medium	High	0					
UN	Fauna	Low	∠ Medium	4 Hiah	-	Painted turtle				
<u>ц</u>	i aulia	0	2	4	4					

## **Confluence to Multnomah Channel**

SITE	SITE NAME		SCORE	
1.1W	Confluence		40	
LOCATION		DATE		OBSERVERS
Confluence to Multnomal	n Channel	04/09/0	2	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
~	Quality	Low O	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.
WATEI	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 O	Med 2	High 6	4	Confluence and influence of Multhomah Channel and mouth of Columbia Slough create flow diversity
	Quantity and Seasonality	None O	Limited 4	year-round 8	4	Large patches riparian vegetation provide source of food.
	Variety	Low O	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
JRE	Diversity	Low O	Medium 4	High 8	3	Backwater areas, Multnomah Channel , Columbia Slough, large wood, man-made in-water structures
UCTL	Quantity	Low O	Medium 4	High 8	4	structures are present throughout the reach, along both banks
STR	Temporality Seasonal, diurnal, etc.	None 0	Limited 2	year-round 4	4	
Hun	Physical	High O	Medium 4	Low 8	2	Much of bank modified with revetment or fill, dredging in main channel, numerous structures
Dist	urbance Activity	High 0	Medium 2	Low 4	1	Frequent marine traffic, industrial lands create noise and other types disturbance
Lin Cor	kage/ nnectivity	Low O	Medium 4	High 8	1	Minimal lateral (floodplain) and vertical connections, but throughout reach
ue Res	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 O	Medium 2	High 4	1	Endangered salmonids known to be present-migration and rearing habitat

## Harborton Forest/Wetlans

REA	CH Linnton		SITE N		SCORE 84						
LOC	ATION Harborton F	orest/we	tlands	2/2/99	OBSERVERS EL, TB, SB, BG						
GE	GENERALCOMMENTS										
Bott	comland forest and wet	land at the	confluenc	e of Miller Cree	k and Multnomah	Channel at northern border of city.					
	COMPONENT		DEGRE	E	SCORE	COMMENTS					
	Quantity and	None	Seasonal	Perennial	0						
~	Seasonality	0	4	8	8						
	Ouality	Low	Medium	High							
Ē		0	4	8	2						
AT	Streamside	None	Nearby	Adjacent							
≥	Vegetation	0	4	8	8						
	Divorsity	Low	Med	High							
	Streams, wetlands etc.	0	2	6	2						
	O constituir and	None	Limited	vear-round							
	Quantity and	0	4	8	_						
	Seasonality				5						
0		1	Ma alla una	1.12 1-							
ō	Variety	LOW O	viedium 4	Hign 8	5						
E E					Ŭ						
	Proximity to	None	Nearby 3	Adjacent 6							
	cover	U U	0	0	5						
	Structural	Low	Medium	High							
	Diversity	0	4	8	6						
	Variety	Low	Medium	High	5						
R	Saasapalitu	0 Low	4 Limited	8 Year round							
Ž	Seasonality	0	2	4	3						
S	Neetiee	Low	Medium	High							
	Nesting,	0	2	4	3						
	Denning, etc.	Law	Madiuma	Llink							
	Access	0	2	High 4	4						
	Physical	Permanent	temporary	none	2						
Hun	nan	0	2	4	3						
Dist	urbance	High	Medium 2	Low 4	4						
	Activity		Z.	-7	-						
Lin	kage/	0	ivieaium 4	Hign 8	7						
Cor	nnectivity	-	-	-							
<u></u>	Rarity of habitat	Low	Medium 2	High 4	2	Bottomland forest and tributary confluence					
JRE JRE	Flora	Low	Medium	High	0	1					
ATL	-	0	2	4	U						
	Fauna	0	2	Hign 4	4	Red legged frog, hinook salmon, steelhead trout, chum salmon					

## **Edison Street Forest**

RE/	ACH Linnton		SITE N	AME – 1.2.b	SCORE 30					
LOC	CATION Edison Stree	et Forest		DATE 1	2/2/99	OBSERVERS EL, TB, SB, BG				
GE	GENERALCOMMENTS									
Oak	woodland on bluff abo	ove Termin	al 4							
	COMPONENT		DEGRE	E	SCORE	COMMENTS				
	Quantity and	None	Seasonal	Perennial	2					
	Seasonality	0	4	0	Z					
2	Quality	Low	Medium	High	2					
	-	0	4	8	2					
A.	Streamside	None	Nearby	Adjacent	0					
5	Vegetation	0	4	8	0					
	Diversity	Low	Med	High						
	Streams, wetlands etc.	0	2	6	2					
	Ouantity and	None	Limited	year-round						
	Seasonality	0	4	8	4					
	couconancy									
0	Variety	Low	Medium	High						
ŏ	Valloty	0	4	8	3					
	Proximity to	None	Nearby	Adjacent						
	cover	0	3	6	2					
					_					
	Structural	Low	Medium	High						
	Diversity	0	4	8	3					
	Variety	Low	Medium	High	2					
ER	Seasonality	Low	Limited	Year round						
2	oodoonanty	0	2	4	2					
ŭ	Nestina	Low	Medium	High						
	Denning, etc.	0	2	4	2					
	Access	Low	Medium	High	1					
		0	2	4	I					
	Physical	Permanent	temporary 2	none 1	0					
Dist	nan urhance	High	Medium	Low	-					
DISC	Activity	0	2	4	2					
Lin	kage/	Low	Medium	High						
Cor	nnectivity	0	4	8	2					
S	Rarity of habitat	Low	Medium	High	1	Oak woodland				
DE	Flora	0 Low	2 Medium	4 Hiah	-					
ATU	FIUIA	0	2	4	0					
Ū	Fauna	Low 0	Medium 2	High 4	0					

## Multnomah Channel to St. Johns Bridge

SIT	E	5				SCORE			
1.00			Innton		DATE	16	OBSEDVEDS		
Mul	tnomah Channel	To St.	Johns Bridg	e	<u>11/15/0</u>	1	CB, BG, TW		
GENERAL COMMENTS:									
Primarily developed shoreline with marine/ industrial activity. Minimal vegetation with small patches present in the									
nort	hern part of the rea	ach. Sc	me stretches	of narrow	beach with	large wood inte	erspersed with T-docks. Numerous		
piiin	COMPONENT	and so	me embayme DFGRFF	nts associat		e marine termin	COMMENTS		
	Quality	Low	Medium	High	1	ediments (Superfund) numerous outfalls			
2	Quality	0	4	8		increased upstre	eam influences		
/ATE	Streamside Vegetation	None 0	Nearby 4	Adjacent 8	2	Some, but minir Cannel mouth	nal in the north end of reach near Multnomah		
5	Diversity velocity Streams, wetlands etc.	Low O	Med 2	High 6	1	embayments T-	4 and some influence of Multnomah Channel		
	Quantity and Seasonality	None 0	Limited 4	year-round 8	1	Those sources p fairly consistent	present are limited in size and distribution, but in regards to seasonality.		
FOOD	Variety	Low O	Medium 4	High 8	1	Variety of food s channel substration productive	sources limited, some wood substrate, but te fine grained and not likely to be very		
	Proximity to cover	None 0	Nearby 3	Adjacent 6	2	Some deep wate provided by pilir	er refuge and minimal cover along shoreline ngs, docks, and vegetation		
RE	Diversity	Low 0	Medium 4	High 8	1	Backwater areas structures	s, Multnomah Channel, man-made in-water		
UCTU	Quantity	Low O	Medium 4	High 8	4	Man-made struc both banks	tures are present throughout the reach, along		
STRI	Temporality Seasonal, diurnal, etc.	None 0	Limited 2	year-round 4	1	Some floodplain	expression but mainly on industrial land		
Hun	Physical nan	High 0	Medium 4	Low 8	0	Majority of bank	modified with revetment or fill,		
Dist	urbance Activity	High O	Medium 2	Low 4	0	Frequent marine types disturbanc	e traffic, industrial lands create noise and other ce		
Lin Cor	kage/ nnectivity	Low O	Medium 4	High 8	1	Minimal lateral (	(floodplain) and vertical connections		
UE RES	Rarity of habitat	Low O	Medium 2	High 4	0	none			
	Flora	Low 0	Medium 2	High 4	0	none			
	Fauna	Low	Medium	High	1	Endangered salr	monids known to be present-migration and		

## Willamette Cove

RE/	ACH Willamette Ter	race	SITE N	IAME <u>–</u> 2.1.a		SCORE 50			
LOC	CATION Willamette	Cove		DATE 1	2/2/99	OBSERVERS EL, TB, SB, BG			
GENERALCOWIVIENTS Riparian/upland area between Cathedral Park and BNSF Railroad Bridge									
	COMPONENT		DEGRE	E	SCORE	COMMENTS			
	Quantity and Seasonality	None 0	Seasonal 4	Perennial 8	8				
TER	Quality	Low O	Medium 4	High 8	2				
WA <sup>-</sup>	Streamside Vegetation	None 0	Nearby 4	Adjacent 8	6				
	Diversity Streams, wetlands etc.	Low O	Med 2	High 6	2				
	Quantity and Seasonality	None O	Limited 4	year-round 8	4				
DOO:	Variety	Low O	Medium 4	High 8	4				
	Proximity to cover	None O	Nearby 3	Adjacent 6	4				
	Structural Diversity	Low O	Medium 4	High 8	3				
	Variety	Low 0	Medium 4	High 8	3				
OVER	Seasonality	Low 0	Limited 2	Year round 4	2				
0	Nesting, Denning, etc.	Low O	Medium 2	High 4	2				
	Access	Low O	Medium 2	High 4	2				
Hun	Physical nan	Permanent 0	temporary 2	none 4	1				
Dist	urbance Activity	High O	Medium 2	Low 4	1				
Lin Cor	kage/ nnectivity	Low O	Medium 4	High 8	6				
ĒS	Rarity of habitat	Low 0	Medium 2	High 4	0				
VIOU	Flora	Low 0	Medium 2	High 4	0				
LUN	Fauna	Low 0	Medium 2	High 4	0				

## Waud Bluff

REA	CH Willamette Ter	race	SITE N	AME – 2.1.b		SCORE 54				
LOC	ATION Waud Bluff			DATE 1	12/14/99	OBSERVERS EL, TB, SB, BG				
GE	GENERALCOMMENTS									
Oak	-madrone bluff above	Willamette	Cove							
	COMPONENT		DEGRE	E	SCORE	COMMENTS				
	Quantity and Seasonality	None 0	Seasonal 4	Perennial 8	4					
TER	Quality	Low O	Medium 4	High 8	3					
WA.	Streamside Vegetation	None 0	Nearby 4	Adjacent 8	4					
	Diversity Streams, wetlands etc.	Low O	Med 2	High 6	2					
	Quantity and Seasonality	None O	Limited 4	year-round 8	5					
	Variety	Low O	Medium 4	High 8	4					
	Proximity to cover	None O	Nearby 3	Adjacent 6	3					
	Structural Diversity	Low O	Medium 4	High 8	4					
	Variety	Low O	Medium 4	High 8	4					
OVER	Seasonality	Low 0	Limited 2	Year round 4	3					
0	Nesting, Denning, etc.	Low O	Medium 2	High 4	2					
	Access	Low O	Medium 2	High 4	3					
Hun	Physical	Permanent 0	temporary 2	none 4	2					
Dist	urbance Activity	High O	Medium 2	Low 4	2					
Lin Cor	kage/ nnectivity	Low O	Medium 4	High 8	5					
ES	Rarity of habitat	Low 0	Medium 2	High 4	2	Oak woodland				
VIOU	Flora	Low 0	Medium 2	High 4	2					
FEA	Fauna	Low 0	Medium 2	High 4	0					

## **Railroad Corridor**

RE/	ACH Willamette Ter	race	SITE N	IAME – 2.1.c		SCORE 68					
	CATION Railroad Co	rridor		DATE 3	3/6/00	OBSERVERS EL, TB, SB					
Cor	Corridor along railroad from river to Doane Lake, extends south to Saltzman Creek										
	COMPONENT		DEGRE	E	SCORE	COMMENTS					
	Quantity and Seasonality	None 0	Seasonal 4	Perennial 8	8						
TER	Quality	Low O	Medium 4	High 8	2						
WA	Streamside Vegetation	None 0	Nearby 4	Adjacent 8	6						
	Diversity Streams, wetlands etc.	Low O	Med 2	High 6	4						
-00D	Quantity and Seasonality	None O	Limited 4	year-round 8	6						
	Variety	Low O	Medium 4	High 8	6						
-	Proximity to cover	None O	Nearby 3	Adjacent 6	5						
	Structural Diversity	Low 0	Medium 4	High 8	5						
	Variety	Low 0	Medium 4	High 8	4						
OVER	Seasonality	Low O	Limited 2	Year round 4	3						
	Nesting, Denning, etc.	Low O	Medium 2	High 4	3						
	Access	Low 0	Medium 2	High 4	2						
Hur	Physical	Permanent 0	temporary 2	none 4	1						
Dist	urbance Activity	High O	Medium 2	Low 4	1						
Lin Cor	kage/ nnectivity	Low O	Medium 4	High 8	4						
ĒS	Rarity of habitat	Low 0	Medium 2	High 4	4	Stillwater habitat, wetland					
NI QU	Flora	Low 0	Medium 2	High 4	0						
LUN	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		
~	Quality	Low 0	Medium 4	High 8	1	Contaminated sediments (Superfund) increased inputs from upstream and outfalls		
/ATE	Streamside Vegetation	None 0	Nearby 4	Adjacent 8	2	Very limited but some present at Willamette Cove, Cathedral Park, and Saltzman mouth		
S	Diversity velocity Streams, wetlands etc.	None 0	One Two 2	Three 6	1	Tributaries and backwater areas		
	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.		
	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		
	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		
JRE	Diversity	Low 0	Medium 4	High 8	2	Wood, beaches, some complexity to shoreline		
UCTL	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		
STR	Temporality Seasonal, diurnal, etc.	None 0	Limited 2	year-round 4	2	Some seasonal structure provided by beach areas		
Hun	Physical	High O	Medium 4	Low 8	1	Highly altered shoreline, multiple in-water man-made structures, contaminated sediments		
Dist	urbance Activity	High O	Medium 2	Low 4	0	Marine traffic, recreational boats, nearshore activities create noise and light		
Lin Cor	kage/ nnectivity	Low 0	Medium 4	High 8	1	Extensive beach areas provide some lateral connectivity and possible hyporheic connections		
UE RES	Rarity of habitat	Low O	Medium 2	High 4	1	Long reach of beach for Willamette Cove to St John's bridge, and beach on west side		
	Flora	Low 0	Medium 2	High 4	0	None noted		
	Fauna	Low 0	Medium 2	High 4	1	Endangered salmonids known to use reach for migration and probably rearing		

## Mock's Crest

RE/	CH Swan Island		SITE N	AME – 2.2.a		SCORE 44					
LOC	ATION Mock's Cres	t		DATE	3/6/00	OBSERVERS EL, TB, SB, BG					
GE	NERALCOMMENT	S .									
Oak	Uak-madrone forest corridor along bluff above Mock's Bottom, extending from University of Portland to Fremont Bridge										
DITU											
	COMPONENT		DEGRE	E	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 O	Med 2	High 6	2						
DOD	Quantity and Seasonality	None O	Limited 4	year-round 8	4						
	Variety	Low O	Medium 4	High 8	4						
	Proximity to cover	None 0	Nearby 3	Adjacent 6	3						
	Structural Diversity	Low O	Medium 4	High 8	3						
~	Variety	Low 0	Medium 4	High 8	4						
OVEF	Seasonality	Low O	Limited 2	Year round 4	3						
с С	Nesting, Denning, etc.	Low O	Medium 2	High 4	1						
	Access	Low 0	Medium 2	High 4	2						
Hun	Physical	Permanent 0	temporary 2	none 4	2						
Dist	urbance Activity	High 0	Medium 2	Low 4	1						
Lin Cor	kage/ nnectivity	Low O	Medium 4	High 8	3						
ES	Rarity of habitat	Low 0	Medium 2	High 4	2						
VIOU	Flora	Low O	Medium 2	High 4	2						
L U	Fauna	Low O	Medium 2	High 4	0						

## **Swan Island Beaches**

REA	CH Swan Island			SCORE 36		
LOC	CATION Swan Island	Beaches	6	DATE <sup>2</sup>	12/14/99	OBSERVERS EL, TB, SB, BG
GE	NERALCOMMENT	S				
Ripa	arian and beach located	l at two sit	es on Swa	n Island		
	COMPONENT		DEGRE	E	SCORE	COMMENTS
	Quantity and Seasonality	None 0	Seasonal 4	Perennial 8	8	
TER	Quality	Low O	Medium 4	High 8	2	
WA <sup>-</sup>	Streamside Vegetation	None 0	Nearby 4	Adjacent 8	4	
	Diversity Streams, wetlands etc.	Low O	Med 2	High 6	2	
	Quantity and Seasonality	None O	Limited 4	year-round 8	3	
100D	Variety	Low O	Medium 4	High 8	2	
	Proximity to cover	None O	Nearby 3	Adjacent 6	2	
	Structural Diversity	Low O	Medium 4	High 8	2	
	Variety	Low 0	Medium 4	High 8	2	
OVER	Seasonality	Low 0	Limited 2	Year round 4	1	
C	Nesting, Denning, etc.	Low O	Medium 2	High 4	1	
	Access	Low O	Medium 2	High 4	1	
Hun	Physical nan	Permanent 0	temporary 2	none 4	1	
Dist	urbance Activity	High O	Medium 2	Low 4	1	
Lin Cor	kage/ nnectivity	Low O	Medium 4	High 8	3	
E	Rarity of habitat	Low 0	Medium 2	High 4	1	Extensive reaches of beach
TUR	Flora	Low 0	Medium 2	High 4	0	
LUN	Fauna	Low 0	Medium 2	High 4	0	

# University of Portland to Fremont Bridge

SIT	E 2 2w	S	ITE NAME			SCORE				
LOC		3	wan isianu		DATE	17	OBSERVERS			
Uni	versity of Portlan	d to F	remont Brid	dge	11/	/15/01	CP/BG			
GE	GENERAL COMMENTS									
Gen	Generally industrialized /modified banks with some beach areas along Swan Island lagoon and riverfront. West bank is									
alm	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.										
	CONFONENT	1	DEGREE	Likeda	JUNE	O antanain ata da a				
R	Quality	0	4	High 8	0	from upstream a	and outfalls,			
IATE	Streamside Vegetation	None 0	Nearby 4	Adjacent 8	1	Limited to area a lagoon	at the south end and east bank of Swan Island			
5	Diversity velocity Streams, wetlands etc.	Low O	Medium 2	High 6	1	Lagoon provides velocity refuge in	s off-channel area and small wetland, some n lagoon			
	Quantity and Seasonality	None O	Limited 4	year-round 8	2	Beach areas add	t to seasonality			
FOOD	Variety	Low O	Medium 4	High 8	1	large wood and macroinvertabra	pilings provide substrate for tes, but other sources are limited			
	Proximity to cover	None 0	Nearby 3	Adjacent 6	1	Man-made struc	tures, wood, but limited vegetation			
RE	Diversity	Low O	Medium 4	High 8	2	Some wood alor embayments, ar	ng beaches, man-made structures, small nd lagoon			
исти	Quantity	Low O	Medium 4	High 8	2	Limited quantitie	es of habitat forming structure			
STR	Temporality Seasonal, diurnal, etc.	None 0	Limited 2	year-round 4	2	Beaches add to	seasonality			
Hun	Physical	High 0	Medium 4	Low 8	0	Highly modified	banks, fill, dregding, pilings and docks			
Dist	urbance Activity	High 0	Medium 2	Low 4	0	Area of high act	ivity, industrial noise, marine traffic			
Linl Cor	kage/ nnectivity	Low O	Medium 4	High 8	2	Beaches/wetland Emergent wetland	d provide lateral and vertical connectivity. nd at south end of lagoon			
UE RES	Rarity of habitat	Low O	Medium 2	High 4	1	Beaches and we	tland			
	Flora	Low 0	Medium 2	High 4	1	Wapato thought	to be present at wetland			
L H	Fauna	Low 0	Medium 2	High 4	1	Salmonids likely rearing and refu	to use shallow and slow water areas for ge			

## Fremont Bridge to Steel Bridge

SIT	E 2 3w	S	ITE NAME	+		SCORE			
LOC	CATION				DATE	10	OBSERVERS		
Fre	emont Bridge to S	teel Br	idge		04.	/09/02	CP/BG		
GE	GENERAL COMMENTS								
Fairly straight reach of river characterized by modified banks, bridges, and industrial/commercial shoreline with									
seve	eral cargo loading fa	acilities	on the east b	ank. A dee	p pool is p	resent north of t	he Steel Bridge.		
	COMPONENT		DEGREE		SCORE	COMMENTS			
~	Quality	Low O	Medium 4	High 8	1	Numerous outfa	ills, increased upstream influences		
ATEI	Streamside Vegetation	None 0	Nearby 4	Adjacent 8	1	Some invasive s limited	species present-Himalayan blackberry- but very		
5	Diversity velocity Streams, wetlands etc.	Low O	Med 2	High 6	0	Fairly homogene tributaries/confl	ous velocity, no areas of refuge, no luences/ wetlands		
	Quantity and Seasonality	None O	Limited 4	year-round 8	1	No vegetation a food sources	nd no variety or quantity of habitat to provide		
FOOD	Variety	Low 0	Medium 4	High 8	0	Homogenous ch wood indicate h	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 pro	vided by bridges and man-made structure		
IRE	Diversity	Low O	Medium 4	High 8	1	Man-made struc	ctures and small beach		
UCTU	Quantity	Low O	Medium 4	High 8	0	Even structure	provided by man-made structures is limited		
STR	Temporality Seasonal, diurnal, etc.	None 0	Limited 2	year-round 4	1	The structure d	oes not improve with seasonal change		
Hun	Physical nan	High O	Medium 4	Low 8	0	Highly modified bridges, pilings,	riverbanks, in-water structures such as docks		
Dist	urbance Activity	High 0	Medium 2	Low 4	1	Recreational and industrial, reside	d marine traffic, noise and light from ential, and bridge activity		
Lin Cor	kage/ nnectivity	Low O	Medium 4	High 8	1	Connectivity to dimensions very	longitudinal aspect of the river, other / limited		
UE RES	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 sall rearing habitat,	monids known to be present-migration and peregrine falcons nest on Fremont Bridge		

# Steel Bridge to Hawthorne Bridge

SIT	E		SITE NAME			SCORE			
1.00	3.1w		Seawall		DATE	10 OBSERVERS			
Ste	el Bridge to Haw	thorn	e Bridge		<u>11/15/0</u>	1 CP/BG			
GE	NERAL COMME	INTS							
High	Highly modified banks with seawall or revetments along entire bank with multiple structures in and over the water.								
	COMPONENT		DECDEE		SCODE	COMMENTS			
		Low	Madium	Lliab	JUCKE				
~	Quality	0	4	8	2				
ATER	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			
S	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			
	Quantity and Seasonality	None O	Limited 4	year-round 8	1	Homogenous character of this reach, lack of vegetation and wood indicate high probability of low diversity			
DOD:	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			
RE	Diversity	Low 0	Medium 4	High 8	0	Structural diversity limited to man-made features			
UCTU	Quantity	Low 0	Medium 4	High 8	1	Man-made structures present throughout reach/			
STRI	Temporality Seasonal, diurnal, etc.	None 0	Limited 2	year-round 4	1	Structure not likely to improve with seasonal change			
Цир	Physical	High 0	Medium 4	Low 8	0	Highly modified banks, with seawall, in-water structures, floating walkway, bridges			
Dist	urbance Activity	High 0	Medium 2	Low 4	1	Noise, light, human activity on water (floating walkway), recreational boats			
Lin Cor	kage/ nnectivity	Low 0	Medium 4	High 8	1	Connectivity to longitudinal aspect of the river, other dimensions			
UE RES	Rarity of habitat	Low 0	Medium 2	High 4	0	none			
ATUF	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

SIT	E 3.2w	9	SITE NAME			SCORE 11			
LOC	CATION		510151		DATE	OBSERVERS			
На	wthorne Bridge t	o Ros	s Island Brid	lge	11/15/0	1 CP/BG			
GE Gen mar	<b>GENERAL COMMENTS</b> 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			
~	Quality	Low 0	Medium 4	High 8	2	CSO and outfalls			
VATE	Streamside Vegetation	None 0	Nearby 4	Adjacent 8	1	Patches limited to invasives and small patch of plantings on east bank			
5	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			
	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			
IRE	Diversity	Low 0	Medium 4	High 8	0	Structural diversity limited primarily to man-made features			
UCTL	Quantity	Low 0	Medium 4	High 8	1	Man-made structures present throughout reach			
STR	Temporality Seasonal, diurnal, etc.	None 0	Limited 2	year-round 4	1	Structure not likely to improve with seasonal change			
Hun	Physical nan	High 0	Medium 4	Low 8	0	Highly modified banks, in-water structures, docks, bridges, pilings			
Dist	urbance Activity	High 0	Medium 2	Low 4	1	Noise, light, human activity at docks and bridges, recreational boats and barge traffic			
Lin Cor	kage/ nnectivity	Low O	Medium 4	High 8	1	Connectivity to longitudinal aspect of the river, other dimensions			
UE RES	Rarity of habitat	Low 0	Medium 2	High 4	0	none			
ATUF	Flora	Low 0	Medium 2	High 4	0	none			
	Fauna	Low	Medium 2	High 4	1	Endangered salmonids known to be present-migration and rearing habitat			

## **Ross Island Complex**

RE/	ACH Ross Island		SITE N		SCORE 90	
LOC	CATION Ross Island	Complex		DATE 3	/6/00	OBSERVERS EL, TB, SB, BG
GE	NERALCOMMENT	S				
Bot	tomland forest and wet	land site o	n Ross Isla	ind Complex (Re	oss, East, Toe, ar	nd Hardtack Islands)
	COMPONENT		DEGRE	E	SCORE	COMMENTS
	Quantity and	None	Seasonal	Perennial		
	Seasonality	0	4	8	8	
	Quality	Low	Medium	High		
E R	Quanty	0	4	8	4	
AT	Streamside	None	Nearby	Adjacent		
≥	Vegetation	0	4	8	8	
	Diversity	Low	Med	High		
	Streams, wetlands etc.	0	2	6	4	
	Quantity and	None	Limited	year-round		
	Seasonality	0	4	8	7	
	Variety	Low	Medium	High		
Ŏ	<u> </u>	0	4	8	0	
-	Proximity to	None	Nearby	Adjacent		
	cover	0	3	0	6	
	Structural	Low	Medium	High	7	
	Diversity	0	4	0	/	
	Variety	Low O	Medium 4	High 8	6	
Γ.	Seasonality	Low	Limited	Year round	2	
0		0	2	4	3	
C	Nesting,	Low	Medium	High	4	
	Denning, etc.	0	Z	4	4	
	Access	Low 0	Medium 2	High 4	4	
	Physical	Permanent	temporary	none	2	
Hur	nan	0	2	4	3	
Dist		0	2	4	4	
Lin	kano/	Low	Medium	High		
Cor	nectivity	0	4	8	8	
001	Rarity of habitat	Low	Medium	High	4	Island habitat
RES		0	2 Modium	4 High	4	
NIO MIO	Flora	0	2	4	0	
E U	Fauna	Low 0	Medium 2	High 4	4	Nesting bald eagle, heron rookery

## **Oaks Bottom Complex**

REA	CH Swan Island		SITE N		SCORE 85						
LOC	ATION Oaks Botton	n Comple	х	DATE 2	/28/00	OBSERVERS EL, TB, BG					
GE	GENERALCOMMENTS										
Ripa	arian/wetland/upland co	omplex be	tween Ross	and Sellwood	Bridges						
	AOMEONENT										
	COMPONENT		DEGRE	<u>E</u>	SCORE	COMMENTS					
	Quantity and	None	Seasonal	Perennial	Q						
	Seasonality	0	4	0	0						
R	Quality	Low	Medium	High	1						
Ξ		0	4	0	4						
VA.	Streamside	None	Nearby	Adjacent	7						
>	Vegetation	0	4	8	1						
	Diversity	Low	Med	High	/						
	Streams, wetlands etc.	0	2	6	0						
	Quantity and	None	Limited	year-round							
	Seasonality	0	4	8	7						
	5										
D	Variety	Low	Medium	High	_						
ŏ		0	4	8	6						
	Proximity to	None	Nearby	Adjacent							
	cover	0	3	6	6						
	Structural	Low	Medium	High							
	Diversity	0	4	8	6						
	Variety	Low	Medium	High	6						
ER	Seasonality	Low	Limited	Year round							
2	Seasonanty	0	2	4	4						
ŭ	Nestina	Low	Medium	High							
	Denning, etc	0	2	4	4						
	Access	Low	Medium	High	2						
	100033	0	2	4	3						
11	Physical	Permanent	temporary	none	2						
Hun Dist	nan urbance	High	Medium	Low							
DISC	Activity	Ō	2	4	2						
Lin	kage/	Low	Medium	High							
Cor	nnectivity	0	4	8	8						
s	Rarity of habitat	Low	Medium	High	2						
DUE	Flora	U Low	2 Medium	4 Hiah	-						
ATL	FIUI d	0	2	4	2						
ΟË	Fauna	Low O	Medium 2	High 4	2						

# Cottonwood Bay

REA	CH Ross Island		SITE N	AME – 4.1.c		SCORE 36					
LOC	ATION Cottonwood	l Bay		DATE	2/28/00	OBSERVERS EL, TB, BG					
GE	GENERALCOMMENTS										
Site	along Greenway Trail,	cottonwoo	od bay/hero	on point							
	COMPONENT		DEGRE	E	SCORE	COMMENTS					
	Quantity and	None Seasonal		Perennial							
	Seasonality	0	4	8	8						
~	Quality	Low	Medium	High							
ЦЩ.		0	4	8	2						
AT	Straamsida	None	Nearby	Adjacent							
≥	Vegetation	0	4	8	4						
	Divorcity	Low	Med	High							
	Streams, wetlands etc.	0	2	6	4						
	0 111 1	Nono	Limited	year round							
	Quantity and	0	4	8							
	Seasonality				2						
0											
ō	Variety	LOW O	iviedium 4	Hign 8	2						
E E		Ŭ	•	0	-						
	Proximity to	None	Nearby 3	Adjacent 6							
	cover	Ŭ	5	0	2						
	Structural	Low	Medium	High	2						
	Diversity	0	4	8	Ζ						
	Variety	Low	Medium 4	High 8	2						
E H	Seasonality	Low	Limited	Year round							
2	couconancy	0	2	4	2						
ŭ	Nestina	Low	Medium	High							
	Denning,	0	2	4	1						
	Access	Low	Medium	High							
	A00033	0	2	4	2						
	Physical	Permanent	temporary	none	0						
Hun	nan	U Hiah	Z Medium	4 Low							
DISL	Activity	ő	2	4	0						
Lin	kage/	Low	Medium	High							
Cor	nectivity	0	4	8	3						
	Parity of babitat	Low	Medium	High							
UE RES		0	2	4	0						
IQ T	Flora	Low	Medium 2	High 4	0						
UN EA:	Fauna	Low	Medium	High	0						
		0	2	4							

## Stephens Creek/Willamette Park

REACH Ross Island     SITE NAME – 4.1.d     SCORE 63						SCORE 63			
LOC	LOCATION Stephens Creek/Willamette Park DATE 2/28/00 OBSERVERS EL, TB, BG								
GE	GENERALCOMMENTS								
FUIE	I DIESTEU PAIK AT THE COMMUNICE OF THE WINDHIELLE AND COMMUNICA RIVELS								
COMPONENT DEGREE SCORE COMMENTS									
	Quantity and Seasonality	None O	Seasonal 4	Perennial 8	8				
rer	Quality	Low O	Medium 4	High 8	3				
WA.	Streamside Vegetation	None 0	Nearby 4	Adjacent 8	4				
	Diversity Streams, wetlands etc.	Low O	Med 2	High 6	4				
	Quantity and Seasonality	None O	Limited 4	year-round 8	6				
-00D	Variety	Low O	Medium 4	High 8	5				
ш	Proximity to cover	None O	Nearby 3	Adjacent 6	4				
	Structural Diversity	Low O	Medium 4	High 8	6				
	Variety	Low O	Medium 4	High 8	4				
OVER	Seasonality	Low 0	Limited 2	Year round 4	2				
O	Nesting, Denning, etc.	Low O	Medium 2	High 4	3				
	Access	Low O	Medium 2	High 4	3				
Hun	Physical	Permanent 0	temporary 2	none 4	1				
Dist	urbance Activity	High 0	Medium 2	Low 4	1				
Lin Cor	kage/ nnectivity	Low O	Medium 4	High 8	6				
ES	Rarity of habitat	Low 0	Medium 2	High 4	3	Pacific willow floodplain, wetland			
TUR	Flora	Low 0	Medium 2	High 4	0				
LU FEA	Fauna	Low 0	Medium 2	High 4	0				

## Ross Island Bridge to Sellwood Bridge

SITE 4.1w	SITE NAME Ross Island		SCORE 70	
LOCATION		DATE		OBSERVERS
		11/14/01		CP/BG
Ross Island Bridge to Se				

#### **GENERAL COMMENTS**

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

	COMPONENT		DEGREE		SCORE	COMMENTS
~	Quality	Low 0	Medium 4	High 8	4	Influence of upstream influences and some outfalls within reach
WATE	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 O	Med 2	High 6	6	Stephens Creek mouth, slough, backwater areas, nearby wetland
	Quantity and Seasonality	None O	Limited 4	year-round 8	7	Food sources-vegetation/wood, etc. in large quantities and available year-round
FOOD	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
JRE	Diversity	Low O	Medium 4	High 8	7	Sandbars, islands, roughness to shoreline, rock outcrop, some man-made structures such as docks and pilings
UCTL	Quantity	Low 0	Medium 4	High 8	5	Limited in quantity by development on westbank
STR	Temporality Seasonal, diurnal, etc.	None 0	Limited 2	year-round 4	3	In-water structures (man-made and natural) provide seasonal availability
Hun	Physical nan	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
DISL	Activity	High O	Medium 2	Low 4	2	Disturbance from industrial (aggregate mining) and recreational activity
Lin Cor	kage/ nnectivity	Low O	Medium 4	High 8	5	Vertical, longitudinal, and lateral dimensions of river all expressed, but with some limitations from revetted banks
UE RES	Rarity of habitat	Low O	Medium 2	High 4	4	Islands, sandbars, secondary channel, rock outcrop, mudflats, and proximity to large wetland-deep and shallow water areas present
ATU	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**

REA	CH Sellwood	SITE NAME – 4.2.a			SCORE 51				
LOC	ATION Powers Mar	ine Park	ne Park DATE 2/28/00			OBSERVERS EL, TB, BG			
GE	GENERALCOMMENTS								
Fore	Forested beach site along the west bank of the river, south of Sellwood Bridge								
	COMPONENT		DEGRE	E	SCORE	COMMENTS			
	Quantity and	None	Seasonal	Perennial	0				
	Seasonality	0	4	8	8				
~	Quality	Low	Medium	High					
Ē		0	4	8	4				
AT	Streamside	None	Nearby	Adjacent					
3	Vegetation	0	4	8	5				
	Diversity	Low	Med	High					
	Streams, wetlands etc.	0	2	6	4				
	Ou contitu con d	None	Limited	vear-round					
		0	4	8					
	Seasonality				4				
		Law	Madiuma	Llink					
0	Variety	0	4	8	3				
FC		N							
	Proximity to	None 0	Nearby 3	Adjacent 6					
	cover	-	-	-	3				
	Structural	Low	Medium	High	2				
	Diversity	0	4	0	5				
	Variety	Low	Medium	High	3				
R	Socopality	Low	4 Limited	Year round					
N	Seasonality	0	2	4	2				
CC	Neeting	Low	Medium	Hiah					
	Nesting,	0	2	4	2				
	Denning, etc.	Low	Medium	High					
	Access	0	2	4	2				
	Physical	Permanent	temporary	none	1				
Hun	nan	0	2	4	I				
Dist	urbance	Hign O	viedium 2	LOW 4	0				
1.1.1	Activity	Low	Medium	High					
	kage/	0	4	8	6				
Cor	Inectivity	1	N.411-	10-1					
ыS	Rarity of habitat	Low O	Medium 2	High 4	1	Extensive beach with rock outcrops and small streams			
URI	Flora	Low	Medium	High	0				
INI	-	0	2	4	U				
	Fauna	0	2	High 4	0				

# Sellwood Bridge to City Limits

SIT	E 4.2w		SITE NAME S	Sellwood		SCORE	57		
LOC	CATION ellwood Bridge to	o City	limit		DATE 11/14/01			OBSERVERS CP/BG	
<b>GE</b> Wes East	<b>GENERAL COMMENTS</b> 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		SC	ORE		COMMENTS	
~	Quality	Low 0	Medium 4	High 8		4	Upst strea	ream influences, and a few outfalls, small ms provide source of cool, clean water	
/ATEI	Streamside Vegetation	None 0	Nearby 4	Adjacent 8		5	West rega	t shoreline is well vegetated, but limited in rds to submerged and over-water vegetation	
5	Diversity velocity Streams, wetlands etc.	Low O	Med 2	High 6		4	Num slow	erous small tributaries, some wetland, areas of water	
	Quantity and Seasonality	None O	Limited 4	year-round 8		6	Vege inver from	station, wood, rocks provide substrate for tebrates, leaf litter and other organic inputs adjacent forest	
DOD:	Variety	Low 0	Medium 4	High 8		6	Limit throu	ed on eastbank by development, but high ughout remainder of reach	
	Proximity to cover	None O	Nearby 3	Adjacent 6		4	Both prov	banks, rock outcrops, and deep pools in river ide opportunities for cover	
JRE	Diversity	Low O	Medium 4	High 8		6	Deep to sh area	o and shallow water habitat, some roughness oreline on west side, with limited backwater s	
UCTL	Quantity	Low O	Medium 4	High 8		3	Dive man east	rsity limited to west bank of the river with -made structure and revetments dominating shore	
STR	Temporality Seasonal, diurnal, etc.	None 0	Limited 2	year-round 4		3	Natu but o	ral beach provides year-round connectivity, constrained on eastbank	
Hun	Physical	High 0	Medium 4	Low 8		4	Dock	s, rip rap and in-water structures on eastbank	
Dist	urbance Activity	High 0	Medium 2	Low 4		3	Publi and	ic access to westbank, recreational activities in adjacent to water	
Lin Cor	kage/ nnectivity	Low O	Medium 4	High 8		5	Thou expr long	igh constrained by topography some lateral ession, hyporheic/vertical dimension and tudinal also connected	
UE RES	Rarity of habitat	Low 0	Medium 2	High 4		3	Deep unin	pools, rock outcrops, shallow water areas, terrupted length of beach	
ATU	Flora	Low 0	Medium 2	High 4		0	none	)	
	Fauna	Low	Medium 2	High 4		1	Enda	angered salmonids known to be present- ation and rearing habitat	

# SUPPLEMENTAL SITE VISITS

### Willamette River Inventory – North Reach

Kelley Point Park

Sub-Reach Name: Confluence	Sit	te name and ID#: WR1 Kelley	Slough F	Resource site observation #		
GPS point #'s       loc	ation/feature         Pf	boto #'s boto and the second	valked S prtion of J bn I h the they e, had etc.). included	Staff name(s)/affiliations: Inris Prescott (ESA) osh Robben (BES) by Thompson (BES) ymn Barlow (BES) Roberta Jortner (BOP) Mindy Brooks (BOP)		
Slope (range) to% (Office)	Describe landforms present i bank, etc.): Riparian corridor along Low back the landscape is rolling.	(e.g., ridgetop, hilltop, hillsi er Slough. Banks of Slough at	<b>ide, flat, rolling</b> , re steep, especiall	y on the sou	race, bluff, river or stream ith bank. From top-of-bank	
Vegetation	Domi	nant vegetation species by wat	ter feature and ve	getation cla	ssification	
· ·g·····	Forest	Woodland (> % canopy	Shrubland	8	Herbaceous	
Approx. percent cover (select from below)           trace -51%;         1 - 10%;           10-20%         20 - 50%;           50 - 75%         75 - 100% ☑           Dominant canopy species         Other canopy species	Cottonwood					
Dominant shrub species (< 5 m)	Blackberries					
Other shrub species	Snowberry, Red Osier					
Dominant herb species (> 5 m)	Blue wild rve					
Other herb species						
DBH Class (overstory trees only) – Check most representative class	Snag abundance and size – (Circle most representative class)	Sensitive, unique, or rare pla describe (presence, extent, de	int species – ominance):	Disturband developmen	ce – invasives, human uses, tt lights, noise, domestic animals	
DBH < 0 - 12"	DBH < 0 - 12"			The south bank of the Slough has thick blackberry cover, while the north bank is dominated by blackberries but other shrub		
	Absent Low Med High	-		cover exists as well. Significant noise from Lombard.		
DBU 12 24" V	DBH 12 – 24"			Seasonal ro	creational use may have adverse	
DBH 12 - 24 <u>X</u>	Absent Low Med High	-	the vegetation.			
DBH > 24"	DBH > 24"					
	Absent Low Med High					
Vegetation Comments: (existing quality and condition; restoration options):	Some Revegetation sites to rem Revegetation and Mitigation).	nove blackberries and create struc	ctural diversity. Pa	st its 5-year n	naintenance window (see	

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):     River     _X		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 <b>High</b> 0 2 4 6 8	Diversity: (streams, wetlands, ponds) Low <b>Medium</b> High 0 2 4 6 8	Channel Quality (complexity, morphology): Low <b>Medium</b> High 0 1 <b>3</b> 5 6	Proximity to cover: Low Medium <b>High</b> 0 2 4 6 <u>8</u>
Comments:	Lidal		

Bank	Bank	Disturbance: (invasives, human uses, development, lights, noise, domestic animals)	
	Canopy % Cover: 75-100	Open water shading:	Blackberries, canoe launch, nutria burrowing,
Bank treatment	Dominate species:	None Sparse Partial_X_	noise from Lombard
type(s):	Cottonwood	Most Complete	
(cirlce all that apply)	Shrub % Cover:		
Vegetated	Dominate species:		
Rip rap - vegetated	blackberry		
Rip rap - non-vegetated	Herb % Cover:		
Seawall	Dominate species:		
Beach	Blue wild rye		
Mix (describe):	-		
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 <u>2</u> 4 6 8	Quantity: Low Medium High $0 \ \underline{2} \ 4 \ 6 \ 8$ blackberries	Seasonal Availability: Low Medium High <u>0</u> 2 4 6 8	Food - comments: Low layer food only; Ash, snowberry, cottonwoods
Cover	Structural Diversity: Low <b>Medium</b> High 0 2 <u>4</u> 6 8	Variety and Seasonality: Low Medium High 0 <u>2</u> 4 6 8	Nesting and Denning sites: Low <b>Medium</b> High 0 2 <u>4</u> 6 8	Cover - comments: Lacks significant structural diversity – high and low cover only
Unique features	Wildlife: Not diverse <b>Somewhat</b> Very 0 <b>2</b> 4	Flora: Not unique Somewhat Very <u>0</u> 2 4	Rarity of Habitat Type: <b>Not rare</b> Somewhat Very <u>0</u> 2 4	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: High <b>Medium</b> Low 0 2 <u>4</u> 6 8	Direct human disturbance (lights, noise, pets, trails).: High <b>Medium</b> Low 0 2 <u>4</u> 6 8	Severity; permanence: High Medium Low <u>0</u> 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 <b>High</b> 0 1 3 5 <b>6</b>	Downed wood, stumps, snags: Low Medium High 0 <b>2</b> 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% <b>0%</b> 0 1 2 3 <u>4</u>
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 habit	tat vitality vegetation recruitment, d	liversity of trees and understory, invas	sives, 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 <u>6</u> 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				
<b>Comments (predation,</b> Now past the 5-year main	<b>Comments (predation, maintenance needs, etc.):</b> 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 45#F           Precipitation: none_X	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)       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						
0	Forest	Woodland Shrubland			Herbaceous		
	(> % canopy)	(> % canopy					
Approx. percent cover (select							
trace -<1%: 1 - 10%:							
10-20% 20-50%;							
<u>50 - 75%</u> 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 plan describe (presence, extent, do	nt species – minance):	Disturbance – development lig	- invasives, human uses, ghts, noise, domestic animals		
DBH < 0 - 12"	DBH < 0 - 12" Absent Low Med High						
DBH 12 – 24" <u>X</u>	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 understory exists. West portion from the Port of Portland oper	e could see most of the remnant co n of the site is Port mitigation (see ations (automobile shipping).	e Revegetation an	and determine w d Mitigation). Li	vith binoculars that little kely a significant edge effect		

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 Kiver		

Bank	Bank vegetation (if applicable)		Disturbance: (invasives, human uses, development, lights, noise, domestic animals)
Pauls treatment	Canopy % Cover:	Open water shading:	
type(s):	Dominate species:	Most Complete	
(cirlce all that apply)	Shrub % Cover:		
Vegetated	Dominate species:		
Rip rap - vegetated	_		
Rip rap - non-vegetated	Herb % Cover:		
Seawall	Dominate species:		
Beach			
Mix (describe):			
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 <u>0</u> 2 4 6 8	Quantity: Low Medium High <u>0</u> 2 4 6 8	Seasonal Availability: Low Medium High 0 2 4 6 8	Food - comments:
Cover	Structural Diversity: Low Medium High 0 <u>2</u> 4 6 8	Variety and Seasonality: Low Medium High <u>0</u> 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 <u>0</u> 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 <b>2</b> 4 6 8	Severity; permanence: High Medium Low 0 <u>2</u> 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 habit	at vitality vegetation recruitment, d	liversity of trees and understory, invas	ives, disturbance): Observed a cro	ow 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 <b>High</b> 0 2 4 6 <u>8</u>
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, Contact Port of Portland	maintenance needs, etc.): , Larry Devory regarding mitigat	ion locations here.	·	

Revegetation and Mitigation	Location (e.g. 1 acre along NW property line)	Vegetation Types (include canopy, shrub and herbaceous)	Other Features (e.g. channel m LWD, e	Enhanced orphology, tc.)	Effectiveness (circle)
Month\Year: Type (e.g. wetland mitigation): Mitigation	West along park property – there may be more locations			]	Low Medium <b>High</b> 0 2 4 6 <u>8</u>
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
<b>Comments (predation, r</b> Contact Port of Portland,	Comments (predation, maintenance needs, etc.): Contact Port of Portland, Larry Devory regarding mitigation locations here.				
Vegetation	Forest	Woodland	Shrubland	egetation classif	Herbaceous
Approx. percent cover (select from below) trace <<1%; 1 - 10%; 10- 20% 20 - 50%; 50 - 75% 75 - 100%           Dominant canopy species	t 5 6 Doug Fir, Maple (probably	y			
Other canony species	big leaf) Hazelaut, Holly, Cedar				
Dominant shrub species (< 5	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 siz (Circle most representative class)	e Sensitive, unique, or rare j describe (presence, extent Unlikely any unique or rare pla	plant species – , dominance): nts	Disturbance – development lig Groundcover is ivy but most has	- invasives, human uses, ghts, noise, domestic animals dominated by ivy, some trees have been cut back. Trails. Heavily
DBH < 0 - 12"	DBH < 0 - 12" Absent Low Med Hig	gh		used dog park. Grading in the grass areas. Rocl and debris in the center of site (possibly from pa landfill activities).	
DBH 12 - 24" X	DBH 12 – 24"				
	Absent Low Med Hig	gh			
DBH > 24"	DBH > 24"				
	Absent Low Med High	n			
	Low lying areas are domin	ated by turf grasses. Forested hills	are maintained.	1	
Vegetation Comments: (existing quality and condition restoration options):	on;	,			

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 Comments:	Diversity: (streams, wetlands, ponds) Low Medium High 0 2 4 6 8 No water features on site	Channel Quality (complexity, morphology): Low Medium High 0 2 4 6 8	Proximity to cover: Low Medium High 0 1 3 5 6

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: NoneSparsePartial MostComplete	
Comments:	No water features on site.		

Wildlife habitat				
and observance				
Food	Variety: Low Medium High 0 <u>2</u> 4 6 8	Quantity: Low Medium High 0 <u>2</u> 4 6 8	Seasonal Availability: Low Medium High 0 <b>2</b> 4 6 8	Food - comments: Snowberry, cones, hazel nuts, maple seeds
Cover	Structural Diversity: Low <b>Medium</b> High 0 2 <u>4</u> 6 8	Variety and Seasonality: Low <b>Medium</b> High 0 2 <u>4</u> 6 8	Nesting and Denning sites: Low <b>Medium</b> High 0 2 <u>4</u> 6 8	Cover - comments: There are different tree heights
Unique features	Wildlife: Not diverse Somewhat Very 0 <u>1</u> 2 4	Flora: Not unique Somewhat Very <u>0</u> 2 4	Rarity of Habitat Type: Not rare Somewhat Very <u>0</u> 2 4	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: High Medium Low 0 <b>2</b> 4 6 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low 0 <b>2</b> 4 6 8	Severity; permanence: High Medium Low 0 <u>2</u> 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 <u>1</u> 3 <u>5</u> <u>6</u>	Downed wood, stumps, snags: Low Medium High 0 <b>2</b> 4 6 8	% non-native herbs <b>100%</b> 80% 50% 10% 0% <b>0</b> 1 2 3 4 interspersed with natives % non-native shrubs 100% <b>80%</b> 50% 10% 0% 0 <u>1</u> 2 3 4 with sword fern	% non-native canopy 100% 80% 50% <b>10%</b> 0% 0 1 2 <u>3</u> 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 habit	at vitality vegetation recruitment, c	liversity of trees and understory, invas	sives, disturbance): Need to find o	ut 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, No revegetation or mitiga	maintenance needs, etc.): ation on site apparent – double of	heck with Parks.	<u>.</u>	

### Chimney and Pier Park, west end

Sub-Reach Name: Linton Site name a			#: Chimney and Pier Park, west end	Resource site observation #
GPS point #'s         locat	ion/feature	Photo #'s	location/feature(s)	
Date         January 31, 2006         Time 9:15-10:00am           Wind          Temperature 45°E           Precipitation:         none_X         mist           Rain         Snow         other           Percent cloud cover:         0%         33%           66%         100%         Most recent precipitation (date) 01/31/06		Location of visit/ SW portion of sis site from X street photographs) Prom parking lot hill to view forest dog park	viewing and viewpoints (e.g., walked te from X to Y; viewed SW portion of et - also GPS locate and take at City of Portland Archives, walked up portion of site and look down at the	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.):        %       (Office)         Hill and very steep along north and center of site (primarily forested). Low, flat areas where dog park and maintai areas are located (primarily turf grass).				errace, bluff, river or stream s where dog park and maintained

Vegetation	Domi	nant vegetation species by wate	er feature and v	egetation classif	ication
8	Forest	Woodland	Shrubland		Herbaceous
	(> % canopy)	(> % canopy			
Approx. percent cover (select from below) trace <1%; 1 – 10%; 10, 20%; 200					
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	0				0
DBH Class (overstory trees only) – Check most representative class DBH < 0 - 12" DBH 12 – 24"	Snag abundance and size – (Circle most representative class) DBH < 0 - 12" Absent Low Med High DBH 12 – 24" Absent Low Med High	Sensitive, unique, or rare plar describe (presence, extent, do Madrone	nt species – minance):	Disturbance - development li Developed and r Grasses and exp Significant "goo fields, pienic tab	- invasives, human uses, ghts, noise, domestic animals maintained park. No understory. osed ground, duff layer. d weather" use – ball fields, Frisbee les, play structures, etc.
DBH > 24" <u>X</u>	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
0 2 4 6 8 Comments:	0     2     4     0     8       No water features on site	0 2 4 6 8	0 1 3 5 6

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 Partial Most Complete	
Comments:	No water features on site.	-	-

		1		
Wildlife habitat and observance				
Food	Variety: Low Medium High 0 <u>2</u> 4 6 8	Quantity: Low Medium High $0 \ \underline{2} \ 4 \ 6 \ 8$	Seasonal Availability: Low Medium High 0 <u>2</u> 4 6 8	Food - comments: No understory food source. Cones
Cover	Structural Diversity: Low Medium High 0 <b>2</b> 4 6 8	Variety and Seasonality: Low Medium High 0 <u>2</u> 4 6 8	Nesting and Denning sites: Low Medium High 0 <b>2</b> 4 6 8	Cover - comments: Potential denning in large tree trunks, Good tree canopy, no understory
Unique features	Wildlife: Not diverse Somewhat Very <u>0</u> 1 2 4	Flora: Not unique <b>Somewhat</b> Very 0 <u>2</u> 4	Rarity of Habitat Type: Not rare <b>Somewhat</b> Very 0 <u>2</u> 4	Unique features – comments: Madrones. Significant, large mature trees and canopy
Human Disturbance	Habitat modification, structures, etc.: High Medium Low <u>0</u> 2 4 6 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low <u>0</u> 2 4 6 8	Severity; permanence: High <b>Medium</b> Low 0 2 <u>4</u> 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 <u>0</u> 1 3 5 6	Downed wood, stumps, snags: Low Medium High <u>0</u> 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% <b>10%</b> 0% 0 1 2 <u>3</u> 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 habit non-natives but not invasive	tat vitality vegetation recruitment, d species. Park maintenance appears to in	liversity of trees and understory, invas clude removal of any downed wood. Th	e Smith/Bybee Lakes trail will go th	is turf grass, moss, bear ground – rough 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	е	

Chimney and Pier Park, east	t side			
Sub-Reach Name: Linton		Site name and ID#: Chimne	y and Pier Park, east side	Resource site observation #
GPS point #'s <u>loc</u>	cation/feature	<u>Photo #</u> 's	location/feature(s)	
Date         January 31, 2006         Time 10:15-11:00am           Wind          Temperature 45°E           Precipitation:         none_X         mist           Rain         Snow         other           Percent cloud cover:         0%         33%           66%         100%         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)       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 classific			lassification	
	(> % canopy)	(> % canopy	75 4000(11,11	Treibaccous
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	1	Maple		

1.7 1					
Dominant shrub species (< 5 m)			blackberry		
Other shrub species					
Dominant herb species (> 5 m)		Sword fern, ivy			
Other herb species					
DBH Class (overstory trees	Snag abundance and size -	Sensitive, unique, or rare pla	int species –	Disturbance -	invasives, human uses,
only) - Check most	(Circle most representative	describe (presence, extent, de	ominance):	development lig	hts, noise, domestic animals
representative class	class)				
DBH < 0 - 12" <u>X</u>	DBH < 0 - 12" Absent Low Med High			Heavy truck traff vegetation patch woodland patch Highway 30 and along the train tr	ffic, louder than southern n. Industrial land uses. The is steeply sloping up to l riprapped. Shrubland are racks.
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 isolat isolated from River and Forest	ted. The Woodland patch has O Park as well as separate from the	K canopy cover an e shrubland patche	nd sword fern gro s.	und cover, but is completely

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	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 <u>0</u> 2 4 6 8	Diversity: (streams, wetlands, ponds) Low Medium High <b>Q</b> 2 4 6 8	Channel Quality (complexity, morphology): Low Medium High $\underline{0}$ 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)
	Canopy % Cover:	Open water shading:	
Bank treatment	Dominate species:	None Sparse Partial	
type(s):		Most Complete	
(cirlce all that apply)	Shrub % Cover:		
Vegetated	Dominate species:		
Rip rap - vegetated	blackberry		
Rip rap - non-vegetated	Herb % Cover:		
Seawall	Dominate species:		
Beach	_		
Mix (describe):			
Comments:		·	

Wildlife habitat and observance				
Food	Variety: Low <b>Medium</b> High 0 2 <u>4</u> 6 8	Quantity: Low Medium High 0 <u>2</u> 4 6 8	Seasonal Availability: Low Medium High 0 <b>2</b> 4 6 8	Food - comments: blackberries
Cover	Structural Diversity: Low Medium High 0 <u>2</u> 4 6 8	Variety and Seasonality: Low Medium High 0 <u>2</u> 4 6 8	Nesting and Denning sites: Low Medium High 0 <u>2</u> 4 6 8	Cover - comments: Lacks significant structural diversity
Unique features	Wildlife:       Not diverse       Somewhat       Very       0       2       4	Flora: Not unique Somewhat Very <u>0</u> 2 4	Rarity of Habitat Type: Not rare Somewhat Very <u>0</u> 2 4	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: High Medium Low <u>0</u> 2 4 6 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low <u>Q</u> 2 4 6 8	Severity; permanence: High Medium Low <u>0</u> 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 <u>0</u> 1 3 5 6	Downed wood, stumps, snags: Low Medium High <u>0</u> 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% <b>10%</b> 0% 0 1 2 <u>3</u> 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 habit	tat vitality vegetation recruitment, d	liversity of trees and understory, invas	sives, 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	ub-Reach Name: Confluence Site name and ID#: WR6 Linnton – Northern Portion		Resource site observation #	
GPS point #'s         locat	ion/feature	<u>Photo #</u> 's	location/feature(s)	
Date February 15, 2006       Time 10:1         Wind       Temperature 4:         Precipitation: none_X       min         Rain       Snow othe         Percent cloud cover: 0% _X       66%1         Most recent precipitation (date) 0	15-10:30am 5 <u>9</u> F st r 33% 00% 2/15/06	Location of visit/v SW portion of sit site from X stree photographs) Took Unnamed R Highway 30, south	viewing and viewpoints (e.g., walked the from X to Y; viewed SW portion of t - also GPS locate and take oad (souther of 112 <sup>th</sup> Ave from h 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 prese bank, etc.): Steep slope from industri	ent (e.g., ridgetop, ial land uses up to F	, <b>hilltop, hillside, flat, rolling, ravine, t</b> Highway 30.	errace, bluff, river or stream

Vegetation	Dominant vegetation species by water feature and vegetation classification				
0	Forest	Woodland	Shrubland		Herbaceous
	(> % canopy)	(> % canopy			
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         DBH < 0 - 12"X	Snag abundance and size – (Circle most representative class) DBH < 0 - 12" Absent Low Med High DBH 12 – 24" Absent Low Med High DBH > 24" Absent Low Med High	Sensitive, unique, or rare plant species – describe (presence, extent, dominance):		Disturbance development The forest pa industrial lan not very loud industrialized	<ul> <li>- invasives, human uses, lights, noise, domestic animals</li> <li>tch is between Highway 30 and d uses. Heavy truck traffic but as compared to other areas.</li> </ul>
Vegetation Comments: (existing quality and condition; restoration options):	Good canopy that gets sparce i	n the center of the patch but thic	kens back up tow	ards 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	RiverX 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 $\underline{0}$ 2 4 6 8	Diversity: (streams, wetlands, ponds) Low Medium High <u>0</u> 2 4 6 8	Channel Quality (complexity, morphology): Low Medium High <u>Q</u> 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 unav-	ailable to wildlife use.

Bank	Bank vegetation (if applicable)		Disturbance: (invasives, human uses, development, lights, noise, domestic animals)
	Canopy % Cover:	Open water shading:	
Bank treatment	Dominate species:	None Sparse Partial	
type(s):		Most Complete	
(cirlce all that apply)	Shrub % Cover:		
Vegetated	Dominate species:		
Rip rap - vegetated	blackberry		
Rip rap - non-vegetated	Herb % Cover:		
Seawall	Dominate species:		
Beach	-		
Mix (describe):			
Comments:			

Wildlife habitat					
and observance					
Food	Variety: Low Medium High 0 <u>2</u> 4 6 8	Quantity: Low Medium High 0 <b>2</b> 4 6 8 blackberries	Seasonal Availability: Low Medium High <u>0</u> 2 4 6 8	Food - comments: Low layer food only; Ash, snowberry, cottonwoods	
Cover	Structural Diversity: Low <b>Medium</b> High 0 2 <u>4</u> 6 8	Variety and Seasonality: Low Medium High 0 <b><u>2</u></b> 4 6 8	Nesting and Denning sites: Low <b>Medium</b> High 0 2 <u>4</u> 6 8	Cover - comments: Lacks significant structural diversity – high and low cover only	
Unique features	Wildlife: Not diverse <b>Somewhat</b> Very 0 <b>2</b> 4	Flora: Not unique Somewhat Very <u>0</u> 2 4	Rarity of Habitat Type: Not rare Somewhat Very <u>0</u> 2 4	Unique features – comments:	
Human Disturbance	Habitat modification, structures, etc.: High <b>Medium</b> Low 0 2 <u>4</u> 6 8	Direct human disturbance (lights, noise, pets, trails).: High <b>Medium</b> Low 0 2 <u>4</u> 6 8	Severity; permanence: High Medium Low <u>0</u> 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 <b>High</b> 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 <u>6</u> 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	
<b>Comments (predation, maintenance needs, etc.):</b> 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 na	me and ID#:	WR6 Linnton – No	rthern Por	tion	Resource site of	bservation #
GPS point #'s location/feature			Photo :	<u>#</u> 's	1	ocation/fe	eature(s)		
Date     February 15, 2006     Time 1       Wind      Temperature	<u>0:15-10:30an</u> <u>45ºF</u>	<u>n</u>	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			<b>Staff name(s)/a</b> Chris Prescott (E Josh Robben (BE	ffiliations: (SA) (SS)		
Provinitation: none V n	aist		photog	graphs)	1 ( .1 .6440th			Ry Thompson (B Lynn Barlow (BE	ES) S)
Rain oth	her		Took U Highwa	Jnnamed Roa av 30. south a	d (souther of 112" nd parked along w	Ave from oodland r	n atch.	Roberta Jortner (	BOP)
Percent cloud cover: 0%X66%	_ 33% _ 100%		0		1 0	1		Mindy Brooks (B Kevin Martin (B	OP) OP
Most recent precipitation (date)	02/15/06								
Slope (range) to% (Office)	<ul> <li>Describe landforms present (e.g., ridgetop, hillside, flat, rolling, ravine, terrace, bluff, river or stream bank, etc.):</li> <li>Steep slope from industrial land uses up to Highway 30.</li> </ul>				er or stream				
Vegetation	Stream	D Wetland	ominant Wa	vegetation sp	ecies by water feat	ure and ve Woodl	egetation of and	lassification Shrubland	Herbaceous
Amount and a last	oucum	W Chand		and body	(> % canopy)	(> % c	nopy	500/	500/
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	Reed canary
Dominant canopy species (>5m)						-		blackberry	grass
DBH Class (overstory trees only) – Check most representative class	Snag abur (Circle mo class)	ndance and siz st representative	e – Ser des	nsitive, unique scribe (presen	e, or rare plant spec ice, extent, dominan	cies – ce):	Disturba developm	ance – invasives, h hent lights, noise, d	uman uses, lomestic animals
DBH < 0 - 12"	DBH < 0	- 12"					Clamatis	5	
	Absent I	.ow Med Hig	gh						
DB11 12 - 24"	DBH 12	- 24"							
DD11 12 - 24	Absent I	.ow Med Hig	Med High						
DBH > 24"	DBH > 24	222							
	Absent I	low Med High	1						
Vegetation Comments: (existing quality and condition; restoration options):	Highly imp	pacted	1						

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 <u>8</u>	Diversity: (streams, wetlands, ponds) Low Medium High <u>Q</u> 4 8	Channel Quality (complexity, morphology): Low Medium High <u>0</u> 3 6	Proximity to cover: Low Medium High 0 <u>4</u> 8
Comments:	In-water structures - dock		

Bank	Bank	Disturbance: (invasives, human uses, development, lights, noise, domestic animals)	
	Canopy % Cover:	Open water shading:	Docks and morage
Bank treatment	Dominate species:	None_X Sparse Partial	
type(s):		Most Complete	
(cirlce all that apply)	Shrub % Cover:50		
Vegetated	Dominate species:		
Rip rap - vegetated	*		
Rip rap - non-vegetated	Herb % Cover:50		
Seawall	Dominate species:		
Beach	×.		
Mix (describe): fill			
Comments:			
	Not much riprap - easy to plant int	50	

Wildlife habitat and observance				
Food	Variety: Low Medium High <u>0</u> 4 8	Quantity: Low Medium High <u>0</u> 4 8	Seasonality Low Medium High <u>0</u> 4 8	Food - comments:
Cover	Structural Diversity: Low Medium High <u>0</u> 4 8	Variety and Seasonality: Low Medium High <u>0</u> 4 8	Nesting and Denning sites: Low Medium High <u>0</u> 4 8	Cover - comments:
Unique features	Wildlife: Not diverse Somewhat Very 0 2 4	Flora: Not unique Somewhat Very <u>0</u> 2 4	Rarity of Habitat Type: Not rare Somewhat Very <u>0</u> 2 4	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: High Medium Low <u><b>0</b></u> 4 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low 0 4 8	Severity; permanence: High Medium Low <u><b>0</b></u> 4 8	Disturbance – comments:
Important Habitat Features	Interspersion w/other habitats: High Medium Low 0 <u>3</u> 6	Downed wood, stumps, snags: High Medium Low <u>0</u> 4 8	% non-native herbs           100%         80%         50%         10%         0% <b>Q</b> 1         2         3         4           % non-native shrubs         100%         80%         50%         10%         0% <b>Q</b> 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., 0ak/ 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 habit	at vitality vegetation recruitment, o	liversity of trees and understory, invas	sives, 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.)		Effective: (circle	ness )
Month\Year:\ Type (e.g. wetland mitigation):				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 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 45°F           Precipitation:         none_X         mist           Rain         Snow         other           Percent cloud cover:         0%         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)     Describe landfor      to%     (Office)   Industrial uses al	ms present (e.g., ridgetop, hilltop, hillside, flat, rolling, ravine, to ong the River. Area of forest vegetation between industrial uses and	aerrace, bluff, river or stream d Highway 30.

Vegetation		Domi	nant vegetation s	pecies by water fea	ture and ve	getation c	lassification	
, egennion	Stream	Wetland	Water body	Forest (> % canopy)	Woodla (> % ca	and	Shrubland	Herbaceous
$\begin{array}{llllllllllllllllllllllllllllllllllll$					35%			100%
Dominant herb species								
Dominant shrub species (< 5 m)								
Dominant canopy species (>5m)					Cotton oug Fir	wood/D		grasses
DBH Class (overstory trees only) – Check most representative class DBH < 0 - 12" DBH 12 – 24"	Snag abu: (Circle mo class) DBH < 0 Absent 1 High DBH 12 Absent 1	ndance and size – st representative - 12" Low⊠ Med - 24" Low Med High	Sensitive, unique, or rare plant species – describe (presence, extent, dominance): White Oak		Disturba developm Condos,	nce – invasives, h eent lights, noise, c parking, docks	uman uses, Iomestic animals	
DBH > 24"X	DBH > 24 Absent I	4" Low Med High						
Vegetation Comments: (existing quality and condition; restoration options):	Dwindling	; bluff – remnant Oal	k, Cottonwood, Bi	g Leaf Maple, Doug	Fir and Ore	gon 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		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:	Access to river across maintain law	7n	

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 Partial Most Complete	
Comments:			

Wildlife habitat and observance				
Food	Variety: Low Medium High 0 <u>4</u> 8	Quantity: Low Medium High <u>0</u> 4 8	Seasonality Low Medium High <u>0</u> 4 8	Food - comments:
Cover	Structural Diversity: Low Medium High <u>0</u> 4 8	Variety and Seasonality: Low Medium High <u>0</u> 4 8	Nesting and Denning sites: Low Medium High <u><b>0</b></u> 4 8	Cover - comments:
Unique features	Wildlife: Not diverse Somewhat Very <u>0</u> 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 <u><b>0</b></u> 4 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low <u><b>0</b></u> 4 8	Severity; permanence: High Medium Low <u><b>0</b></u> 4 8	Disturbance – comments: condos, parking, moorage use
Important Habitat Features	Interspersion w/other habitats: High Medium Low 0 3 <u>6</u>	Downed wood, stumps, snags: High Medium Low 0 4 <b>§</b>	% 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 habit	tat vitality vegetation recruitment, c	liversity of trees and understory, inva	usives, disturbance): Swift, suspec	t/signs – raccoon, deer
Democratic 1				
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:\				Low Medium High

4

Low Medium High

4

4

Low Medium High 0 4 8

4

Medium High

8

8

8

0

0

Low

0

Comments (predation, maintenance needs, etc.):

Type:

Type:

Type:

Type:

Month\Year: \_\_\_\_\\_\_\_

Month\Year: \_\_\_\\_

Month\Year: \_\_\_\\_\_\_

Sub-Reach Name: Selwood		Site	Site name and ID#: Rowing Club - banks			Resource site observation #	
GPS point #'s loc	ation/featur	<u>e Ph</u>	<u>oto #'s</u>	loc	ration/feature(s)		
Date_5-18-06       Time_9:30a       I         Wind _Y_ Temperature75       s         Precipitation: none_X_ mist       Rain Snow other         Percent cloud cover: 0%X_ 33%       66%100%         Most recent precipitation (date)       Most recent precipitation (date)		Lo SW sit ph wa 	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 la bank, etc. Maintainec	andforms present ( ): I lawn to steep ban	<b>e.g., ridgetop, hil</b> k with invasive co	<b>ltop, hillside, flat,</b> <sup>7er</sup>	rolling, ravine,	terrace, bluff, rive	er or stream
Vegetation	Stream	Dominant vegetation species by water feature and vegetation Stream Wetland Water body Forest Woodland				n classification Shrubland	Herbaceous
Approx. percent cover (select from below) trace -<1%; 1 - 10%; 10- 20% 20 - 50%; 50 - 75% 75 - 100%				(> % canopy)	(> % canopy		100%
Dominant herb species							turf
Dominant shrub species (< 5 m)							
DBH Class (overstory trees only) – Check most representative class	Snag abur (Circle mos class)	idance and size – st representative	Sensitive, unique describe (presen Ramnant White Oak	, or rare plant speci ce, extent, dominance	es – Distur b): develo Park u	bance – invasives, h oment lights, noise, c ses, trail	uman uses, lomestic animals
DBH < 0 - 12"	DBH < 0 - Absent⊠	12" Low Med High					
DBH 12 – 24"	DBH 12 - Absent	-24" Low Med High	-				
DBH > 24"X	DBH > 24 Absent⊠	" Low Med High					
Vegetation Comments: (existing quality and condition; restoration options);	Remnant V	White oak, one large	cottonwood, Wester	n Read Cedar and lan	dscaped understo	ry/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 Comments:	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

Bank	Bank	vegetation (if applicable)	Disturbance: (invasives, human uses, development, lights, noise, domestic animals)
	Canopy % Cover:	Open water shading:	
Bank treatment	Dominate species:	None Sparse Partial	
type(s):	_	Most Complete	
(cirlce all that apply)	Shrub % Cover:		
Vegetated	Dominate species:		
Rip rap - vegetated	*		
Rip rap - non-vegetated	Herb % Cover:		
Seawall	Dominate species:		
Beach	L		
Mix (describe):			
Comments:		1	1

Wildlife habitat				
and observance				
Food	Variety: Low Medium High <u>0</u> 4 8	Quantity: Low Medium High <u>0</u> 4 8	Seasonality Low Medium High <u>0</u> 4 8	Food - comments:
Cover	Structural Diversity: Low Medium High <u>0</u> 4 8	Variety and Seasonality: Low Medium High <u>0</u> 4 8	Nesting and Denning sites: Low Medium High 0 4 8	Cover - comments:
Unique features	Wildlife: Not diverse Somewhat Very <u>0</u> 2 4	Flora: Not unique Somewhat Very 0 <u>2</u> 4	Rarity of Habitat Type: Not rare Somewhat Very <u>0</u> 2 4	Unique features – comments: Remnant White Oak and Cottonwoods
Human Disturbance	Habitat modification, structures, etc.: High Medium Low <u><b>0</b></u> 4 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low <u><b>0</b></u> 4 8	Severity; permanence: High Medium Low 0 4 8	Disturbance – comments:
Important Habitat Features	Interspersion w/other habitats: High Medium Low 0 <u>3</u> 6	Downed wood, stumps, snags: High Medium Low 0 4 8	% non-native herbs           100%         880%         50%         10%         0% <b>0</b> 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 <u>1</u> 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 habi	tat vitality vegetation recruitment, d	liversity of trees and understory, invas	sives, 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.)		Effective (circle	ness :)
Month\Year:\ Type (e.g. wetland mitigation):				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 8
Comments (predation,	maintenance needs, etc.):	I		1		

#### Rowing Club- Upland

Sub-Reach Name: Selwood		Site name and ID	#: Rowing Club - upland	Resource site observation #
GPS point #'s loc:	ation/feature	<u>Photo #</u> 's	location/feature(s)	
Date_5-18-06 Time_         WindX_ Temperature_         Precipitation: none_X         Rain Snow oth         Percent cloud cover: 0%X         66%         Most recent precipitation (date)	9:30 75 mist ter   100%	Location of visit/ SW portion of sis site from X streed photographs) Parking lot and d	viewing and viewpoints (e.g., walked te from X to Y; viewed SW portion of et - also GPS locate and take own 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 prese bank, etc.):	ent (e.g., ridgetop	, hilltop, hillside, flat, rolling, ravine, t	errace, bluff, river or stream

Vegetation		Domi	nant vegetation s	pecies by water fea	ture and v	egetation of	lassification	
	Stream	Wetland	Water body	Forest (> % canopy)	Woodl (> % c	and anopy	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 abur (Circle mo class)	ndance and size – st representative	Sensitive, uniqu describe (prese none	e, or rare plant spe nce, extent, dominar	cies – nce):	<b>Disturba</b> developm High – tr	nnce – invasives, h nent lights, noise, a ail, condos, moora	uman uses, domestic animals age
DBH < 0 - 12"	DBH < 0 Absent I	- 12" Low Med High						
DBH 12 – 24"	DBH 12 Absent I	– 24" Low Med High	-					
DBH > 24"	DBH > 24 Absent I	r" Low Med High						
Vegetation Comments: (existing quality and condition; restoration options):	No trees o	n 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 <u>8</u>	Diversity: (streams, wetlands, ponds) Low Medium High <u>Q</u> 4 8	Channel Quality (complexity, morphology): Low Medium High <u><b>0</b></u> 3 6	Proximity to cover: Low Medium High <u>0</u> 4 8
Comments:			

Bank	Bank	vegetation (if applicable)	Disturbance: (invasives, human uses, development, lights, noise, domestic animals)
	Canopy % Cover:_0	Open water shading:	Riprap, cut cottonwood seedlings
Bank treatment	Dominate species:	None_X Sparse Partial	
type(s):		Most Complete	
(cirlce all that apply)	Shrub % Cover:0		
Vegetated	Dominate species:		
Rip rap - vegetated	_		
⊠Rip rap – non-	Herb % Cover:_100		
vegetated	Dominate species:		
Seawall	*		
Beach			
Mix (describe):			
Comments:			

Wildlife habitat and observance				
Food	Variety: Low Medium High <u>0</u> 4 8	Quantity: Low Medium High 0 <u>4</u> 8	Seasonality Low Medium High <u>0</u> 4 8	Food - comments:
Cover	Structural Diversity: Low Medium High <u>Q</u> 4 8	Variety and Seasonality: Low Medium High <u>Q</u> 4 8	Nesting and Denning sites: Low Medium High <u>0</u> 4 8	Cover - comments:
Unique features	Wildlife: Not diverse Somewhat Very <u>0</u> 2 4	Flora: Not unique Somewhat Very <u>0</u> 2 4	Rarity of Habitat Type:Not rare Somewhat Very <b>0</b> 24	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: High Medium Low <b>Q</b> 4 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low <u><b>0</b></u> 4 8	Severity; permanence: High Medium Low <u><b>Q</b></u> 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% <b>0</b> 1         2         3         4           % non-native shrubs         100%         880%         50%         10%         0% <b>0</b> 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 habit starlings	at vitality vegetation recruitment, d	liversity of trees and understory, inva	sives, disturbance): swallows, hur	nming birds, sparrows and
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.):			

Sub-Reach Name: Selwood		Si	Site name and ID#: Powers Marina - upland			Resource site observation #		
GPS point #'s <u>lo</u>	cation/featu	<u>Ire</u> <u>P</u> 1 	hoto #'s	1	ocation/fe	eature(s)		
Date_5-25-06 Timenoon         Wind _X Temperature70         Precipitation: none_X mist         Rain Snow other         Percent cloud cover: 0% 33%         66% 100%         Most recent precipitation (date)5-25-06		L4 SV si pl 	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 bank, etc	landforms present	(e.g., ridgetop, hi	lltop, hillside, fla	at, rolling,	, ravine, t	errace, bluff, riv	er or stream
Vegetation	Staro and	Domi	inant vegetation spe	cies by water feat	ure and ve	getation o	lassification	Hashaaaa
Approx. percent cover           (select from below)           trace - <1%;				(> % canopy)	(> % ca	пору		100%
Dominant herb species Dominant shrub species (< 5 m) Dominant canopy species (>5m)								turf
DBH Class (overstory trees only) – Check most representative class DBH < 0 - 12"	Snag abu: (Circle m represen DBH < 0 Absent	ndance and size – tative class) - 12" Low Med High	- Sensitive, unique, or rare plant species - describe (presence, extent, dominance): Ramnant White Oak gh		nce – invasives, ment lights, no	human uses, ise, domestic		
DBH 12 – 24" DBH > 24"X	DBH 12 Absent DBH > 24 Absent	– 24" Low Med High W. Low Med High	_					
Vegetation Comments: (existing quality and condition; restoration	Remnant	White oak, one large	cottonwood, Western	n Read Cedar and k	andscaped 1	anderstory,	/groundcover	

Water		Water Feature Type(s) – (check all that apply)	Morphology, complexity, alteration, - describe: (channel stability, erosion, down-cutt	- ing)	Shading (circle one): None Partial Full
Indications (circle) : Channel Standing/flowing watt Silt Drift lines Floo debris Water marks Saturated soils Hydrophilic vegetation	er od	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 H 0 4	igh 8	Diversity: (streams, wetlands, ponds) Low Medium High 0 4 8	Channel Quality (complexity, morpholog Low Medium High 0 3 6	gy):	Proximity to cover: Low Medium High 0 4 8
Comments:					
Bank		Bank vegetation	n (if applicable)	Distu devel anim	rbance: (invasives, human uses, opment, lights, noise, domestic als)
Bank treatment type(s): (cirlce all that apply) Vegetated Rip rap – vegetated Rip rap – non-vegetated Seavall Beach Mix (describe): Comments:	Canop Domir Shrub Domir Herb 9 Domir	w % Cover:     Open with None       nate species:     Most       % Cover:     None       % Cover:     None       % Cover:     None       inate species:     None	ater shading: SparsePartial Complete		

Wildlife habitat				
and observance				
Food	Variety: Low Medium High <u>0</u> 4 8	Quantity: Low Medium High <u><b>0</b></u> 4 8	Seasonality Low Medium High <u>0</u> 4 8	Food - comments:
Cover	Structural Diversity: Low Medium High <u>0</u> 4 8	Variety and Seasonality: Low Medium High <b>Q</b> 4 8	Nesting and Denning sites: Low Medium High <u>0</u> 4 8	Cover - comments:
Unique features	Wildlife: Not diverse Somewhat Very <u>0</u> 2 4	Flora: Not unique Somewhat Very 0 <u>2</u> 4	Rarity of Habitat Type: Not rare Somewhat Very <u>0</u> 2 4	Unique features – comments: Remnant White Oak and Cottonwoods
Human Disturbance	Habitat modification, structures, etc.: High Medium Low <u>0</u> 4 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low <u>0</u> 4 8	Severity; permanence: High Medium Low 0 4 8	Disturbance – comments:
Important Habitat Features	Interspersion w/other habitats: High Medium Low 0 <u>3</u> 6	Downed wood, stumps, snags: High Medium Low 0 4 8	% non-native herbs           100%         880%         50%         10%           0%         1         2         3           4         % non-native shrubs         100%         880%         50%         10%           0%         0         1         2         3         4           % non-native shrubs         100%         880%         50%         10%         0%         0%         10%         4           0         1         2         3         4         4         4         4         4	% non-native canopy 100% 880% 50% 10% 0% 0 <u>1</u> 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)

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.)		Effective (circle	ness e)
Month\Year:\ Type (e.g. wetland mitigation):				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 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)	
Date5-25-06 Time2:30         WindX Temperature70         Precipitation: none_X mist         Rain Snow other         Percent cloud cover: 0% 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)     Describe landform bank, etc.):      to%     (Office)       Bamboo along of the state of the	ms present (e.g., ridgetop, hilltop, hillside, flat, rolling, ravine, condos to south	terrace, bluff, river or stream

Vegetation		Domi	nant vegetation s	pecies by water fea	ture and ve	egetation of	classification	
regetation	Stream	Wetland	Water body	Forest	Woodl	and	Shrubland	Herbaceous
Approx. percent cover (select from below) trace -<1%; 1 - 10%; 10 - 20% 20 - 50%; 50 - 75% 75 - 100%				(> % canopy)	(> % c:	anopy		100%
Dominant herb species Dominant shrub species (< 5 m)								
Dominant canopy species (>5m)								
DBH Class (overstory trees only) – Check most representative class DBH < 0 - 12" DBH 12 – 24"	Snag abu: (Circle m represen DBH < 0 Absent 1 DBH 12	ndance and size – nost tative class) - 12" Low Med High – 24"	Sensitive, uniqu describe (pres none	e, or rare plant spe ence, extent, don	ccies – ninance):	Disturba develop animals High – tr	ance – invasives, ment lights, no s rail, condos, moora	, human uses, ise, domestic age
DBH > 24"	Absent I DBH > 24 Absent I	Low Med High 4" Low Med High						
Vegetation Comments: (existing quality and condition; restoration options):	No trees o	on bank						

Water	Water Feature Type(s) – (check all that apply)	Morphology, complexity, alteration, – describe: (channel stability, erosion, down-cuttin	g) None 🖾 Partial Full
Indications (circle) : Channel Standing/flowing water Silt Drift lines Flood debris Water marks Saturated soils Hydrophilic vegetation	River _X		Water Appearance: (circle all that apply) Clear Murky Dirty Oil Sheen Other:
Seasonality and quantity: Low Medium High 0 4 <u>§</u>	Diversity: (streams, wetlands, ponds) Low Medium High <u>Q</u> 4 8	Channel Quality (complexity, morphology) Low Medium High <u>0</u> 3 6	Proximity to cover: Low Medium High <u>0</u> 4 8
Comments:			
Bank	Bank vegetation	n (if applicable)	Disturbance: (invasives, human uses,

2,000			development, lights, noise, domestic
Bank treatment type(s): (cirlce all that apply) Vegetated Rip rap – vegetated ⊠Rip rap – non- vegetated Seawall Beach Mix (describe):	Canopy % Cover0 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 <u>0</u> 4 8	Quantity: Low Medium High 0 <u>4</u> 8	Seasonality Low Medium High <u>0</u> 4 8	Food - comments:
Cover	Structural Diversity: Low Medium High <u>0</u> 4 8	Variety and Seasonality: Low Medium High <u>0</u> 4 8	Nesting and Denning sites: Low Medium High <u>0</u> 4 8	Cover - comments:
Unique features	Wildlife: Not diverse Somewhat Very <u>0</u> 2 4	Flora: Not unique Somewhat Very <u>0</u> 2 4	Rarity of Habitat Type: Not rare Somewhat Very <u>0</u> 2 4	Unique features – comments:
Human Disturbance	Habitat modification, structures, etc.: High Medium Low <u><b>0</b></u> 4 8	Direct human disturbance (lights, noise, pets, trails).: High Medium Low <b>Q</b> 4 8	Severity; permanence: High Medium Low <u>0</u> 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 shrubs       100%       880%       50%       10%         0%       0       1       2       3         4       3       4       3	% 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 has sparrows and starlings	bitat vitality vegetation recru	itment, diversity of trees and ur	nderstory, invasives, disturba	ance): swallows, humming 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.)		Effectiver (circle)	ness )
Month\Year:\ Type (e.g. wetland mitigation):				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 8
Month\Year:\ Type:				Low 0	Medium 4	High 8
Comments (predation,	maintenance needs, etc.):					

Å	pendix D: Sp	ecial Status F	ish and Wildli	ife Spe	cies in Port	tlanc	-				
e	Species Name	Scienticif Name	USFWS	ODFW	<b>ORNHIC Rank</b>	List	NWPCC	PIF Focal Species	OWEB	ABC	City of Portland Sensitive Species
	Northern Red- legged Frog	Rana aurora aurora	Species of Concern	SV	G4T4/S3	2	×		×		>
	Clouded Salamander	Aneides ferreus		SV	G3/S3	e					>
	Purple Martin	Progne subis	Species of Concern	sc	G5/S3B	2	×	×	×		D
	Loggerhead Shrike	Lanius ludovicianus		SV	G4/S3B, S2N	4					>
	Long-billed Curlew	Numenius americanus		SV	G5/S3B	4				Yellow List	>
	Merlin	Falco columbarius			G5/S1B	2					>
	Nashville Warbler	Vermivora ruficapilla						×			
	Northern Harrier	Circus cyaneus					×	×			
	Olive-sided Flycatcher	Contopus cooperi	Species of Concern	SV	G5/S4	4	×	×	×	Yellow List	>
	Orange-crowned Warbler	Vermivora celata						×			
	Pacific-slope Flycatcher	Empidonax dificilus						×	×		
	Peregrine Falcon	Falco peregrinus	American & Arctic Delisted	SV	G4/T3/S1B	N					>
	Swainson's Thrush	Catharus ustulatus						×			
	Purple Finch	Carpodacus purpureus							×		
	Hooded Merganser	Lophodytes cucullatus							×		
	Red Crossbill	Loxia curvirostra						×			
	Red-eyed Vireo	Vireo olivaceus					×	×			
	Red-necked Grebe	Podiceps grisegena		SC	G5/S1B,S4N	N					>
	Rufous Hummingbird	Selasphorus rufus						×			

Code	Species Name	Scienticif Name	USFWS	ODFW	ORNHIC Rank	List	NWPCC	PIF Focal Species	OWEB	ABC	City of Portland Sensitive Species
ш	Short-eared Owl	Asio flammeus						×	×	Yellow List	
в	Sora	Porzana carolina					×				
В	Streaked Horned Lark	Eremophila alpestris strigata	Candidate	sc	G5/T2/S2B	÷	×	×	×		>
В	Pileated Woodpecker	Dryocopus pileatus		SV	G5/S4	4	×	×			>
в	Chipping Sparrow	Spizella passerina					×	×			
В	American Bittern	Botaurus lentiginosus							×		
в	American Kestrel	Falco sparverius					×	×	×		
В	American White Pelican	Pelecanus erythrorhynchos		SV	G3/S2B	2					>
В	Bald Eagle	Haliaeetus leucocephalus	Delisted	ΓТ	G4/S3B, S4N	5	×				>
В	Band-tailed Pigeon	Columba fasciata	Species of Concern		G5/S4	4		×	×		>
В	Black-throated Gray Warbler	Dendroica nigrescens						×			
в	Brown Creeper	Certhia americana						×			
В	Bufflehead	Bucephala albeola			G5/S2B,S5N	4					>
В	Hutton's Vireo	Vireo huttoni						×			
В	Bushtit	Psaltriparus minimus						×			
В	House Wren	Troglodytes aedon						×			
в	Common Nighthawk	Chordeiles minor		sc	G5/S5	4					>
В	Common Yellowthroat	Geothlypis trichas					×				
ш	Downy Woodpecker	Picoides pubescens						×			
В	Dunlin	Calidris alpina					×		×		
В	Great Blue Heron	Ardea herodias							×		

Butorides virescens         B       Hammond's       Empidonax         Flycatcher       hammondii         B       Hermit Warbler       Dendroica         B       Thayer's Gull       Larus thayeri         B       Thayer's Gull       Larus thayeri         B       Wilson's Warbler       Wilsonia pusilla         Chat       Vellow-breasted       Icteria virens         B       Yellow-breasted       Icteria virens         B       Winter Wren       Troglodytes         B       Winter Wren       Troglodytes         B       Winter Wren       Empidonax trailli         B       Winter Wren       Encolodytes         B       Winter Wren       Encolodytes         B       Winter auxis       Encolodytes         B       Vaux's Swift       Chaetura vauxi         B       Western       Mood         B       Western       Contopus         B       Western       Contopus         B       Western       Con	es of Concern SC WV	G5/S3B 4 G5/S4? 4 G5/S1B 4	× × ×	x     x     x     x     x     x       x     x     x     x     x     x     x	Yellow List Yellow List Yellow List	
BHammond's hammondiiBHermit WarblerDendroica occidentalisBHermit WarblerDendroica occidentalisBThayer's GullLarus thayeri occidentalisBWilson's WarblerWilsonia pusillaBWilson's WarblerWilsonia pusillaBWilson's WarblerWilsonia pusillaBWilson's WarblerWilsonia pusillaBWilson's WarblerNelow-breastedChatDendroica petechiaBYellow WarblerDendroica petechiaChatTroglodytesBWinter WrenTroglodytesBWillow FlycatcherEmpidonax trailliLittle)brewsteriContopusBWastern Wood-SordidulusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusBWesternContopusB <td>es of Concern SC WV SV</td> <td>G5/S3B 4 G5/S4? 4 G5/U/S1B 4</td> <td>××</td> <td>x     x     x     x     x     x       x     x     x     x     x     x</td> <td>Yellow List Yellow List Yellow List</td> <td></td>	es of Concern SC WV SV	G5/S3B 4 G5/S4? 4 G5/U/S1B 4	××	x     x     x     x     x     x       x     x     x     x     x     x	Yellow List Yellow List Yellow List	
B       Hermit Warbler       Dendroica         B       Thayer's Gull       Larus thayeri         B       Bullock's Oriole       Icterus bullockii         B       Wilson's Warbler       Wilsonia pusilla         B       Wilson's Warbler       Wilsonia pusilla         B       Wilson's Warbler       Wilsonia pusilla         B       Yellow-breasted       Icteria virens       Species         Chat       Dendroica petechia       Species         B       Yellow Warbler       Dendroica petechia       Species         B       Winter Wren       Troglodytes       Species         B       Western Wood-       Soutidulus       Species         B       Western       Contopus       Sordidulus         B       Western       Contopus       Sordidulus         B       Western       Contopus       Sordidulus         B       Western       Contopus       Sordidulus	es of Concern SC WV	G5/S3B 4 G5/S4? 4 G5/S1B 4	×××	×     ×     ×     ×     ×       ×     ×     ×     ×     ×	Yellow List Yellow List Yellow List	
B       Thayer's Gull       Larus thayeri         B       Bullock's Oriole       lcterus bullockii         B       Wilson's Warbler       Wilsonia pusilla         B       Swainson's Hawk       Buteo swainsoni         B       Swainson's Hawk       Buteo swainsoni         B       Yellow-breasted       Icteria virens         Species       Chat       Dendroica petechia         B       Yellow Warbler       Dendroica petechia         B       Winter Wren       Troglodytes         B       Willow Flycatcher       Empidonax traillii         Little)       brewsteri       Elanus leucurus         B       Waux's Swift       Chaetura vauxi         B       Western       Contopus         B       Western       Sordidulus         B       Western       Sordidulus         B       Western       Sordidulus         B       Western       Contopus         B	es of Concern SC WV SV	G5/S3B 4 G5/S4? 4 G5/S1B 4	××		Yellow List Yellow List	
B       Bullock's Oriole       Icterus bullockii         B       Wilson's Warbler       Wilsonia pusilla         B       Swainson's Hawk       Buteo swainsoni         B       Swainson's Hawk       Buteo swainsoni         B       Yellow-breasted       Icteria virens       Species         B       Yellow Warbler       Dendroica petechia       Species         B       Yellow Warbler       Dendroica petechia       Icteria virens       Species         B       Winter Wren       Troglodytes       Icteria virens       Species         B       Winter Wren       Troglodytes       Icteria       Icteria         B       Willow Flycatcher       Empidonax traillii       Ictitle         B       White-tailed Kite       Elanus leucurus       Icterus         B       Vaux's Swift       Chaetura vauxi       Ictitle         B       Western       Sordidulus       Ictitle       Ictitle         B       Western       Contopus       Ictitle       Ictitle         B       Western       Contopus       Ictitle       Ictitle       Ictitle         B       Western       Contopus       Ictitle       Ictitle       Ictitle         B	es of Concern SC WV SV	G5/S3B 4 G5/S4? 4 G5/S1B 4	××	× × × × × ×	Yellow List	
B       Wilson's Warbler       Wilsonia pusilla         B       Swainson's Hawk       Buteo swainsoni         B       Yellow-breasted       Icteria virens       Species         Chat       Dendroica petechia       Species         B       Yellow Warbler       Dendroica petechia       Species         B       Winter Wren       Troglodytes       Species         B       Winlow Flycatcher       Empidonax trailli       Little)         B       White-tailed Kite       Elanus leucurus       Species         B       Vaux's Swift       Chaetura vauxi       Species         B       Western       Contopus       Sordidulus         B       Western       Sordidulus       Sordidulus         B       Western       Contopus       Sordidulus	es of Concern SC WV SV SV	G5/S3B 4 G5/S4? 4 G5/S4? 4 G5TU/S1B 4	××	× × × ×	Yellow List	
BSwainson's HawkButeo swainsoniBYellow-breastedIcteria virensSpeciesBYellow WarblerDendroica petechiaSpeciesBWinter WrenTroglodytesroglodytesBWillow FlycatcherEmpidonax trailliiLittle)BWillow FlycatcherEmpidonax trailliiroglodytesBWillow FlycatcherEmpidonax trailliiSpeciesBWhite-tailed KiteElanus leucurussordidulusBWesternContopussordidulusBWesternContopussordidulusBWesternContopussordidulusBWesternContopussordidulusDVaried ThruchItorus naviussordidulusDVaried ThruchItorus navius	s of Concern SC WV SV SV	G5/S3B 4 G5/S4? 4 G5/S1B 4	××	× × ×	Yellow List	
BYellow-breastedIcteria virensSpeciesChatChatDendroica petechiaBBWinter WrenTroglodytesTroglodytesBWillow FlycatcherEmpidonax trailliLittle)brewsteribrewsteriBWhite-tailed KiteElanus leucurusBVaux's SwiftChaetura vauxiBWestern Wood-ContopusBWesternSordidulusBWesternSordidulusBWesternCalidris mauriBWesternCalidris mauri	es of Concern SC WV SV	G5/S4? 4 G5TU/S1B 4	× ×	× × × ×		>
BYellow WarblerDendroica petechiaBWinter WrenTroglodytesBWillow FlycatcherEmpidonax trailliLittle)brewsteribrewsteriBWhite-tailed KiteElanus leucurusBVaux's SwiftChaetura vauxiBWestern Wood-ContopusBWesternsordidulusBWesternContopusBWesternCalidris mauriBVaried ThruchIntras hadvins	S	G5TU/S1B 4	××	× × ×		
BWinter WrenTroglodytesBWillow FlycatcherEmpidonax trailliBWhite-tailed KiteEmpidonax trailliBWhite-tailed KiteElanus leucurusBVaux's SwiftChaetura vauxiBWestern Wood-ContopusPeweesordidulusBWesternCalidris mauriBWesternCalidris mauri	S	G5TU/S1B 4	×	× ×	=	
B     Willow Flycatcher     Empidonax trailli       (Little)     brewsteri     brewsteri       B     White-tailed Kite     Elanus leucurus       B     Vaux's Swift     Chaetura vauxi       B     Western Wood-     Contopus       Pewee     sordidulus       B     Western     Calidris mauri       Varied Thrush     Itoratis nadrite	SV	G5TU/S1B 4	×	××		
B     White-tailed Kite     Elanus leucurus       B     Vaux's Swift     Chaetura vauxi       B     Western Wood-     Contopus       Pewee     sordidulus       B     Western     Calidris mauri       Varied Thruch     Increase nasvine					Yellow LIST	>
B     Vaux's Swift     Chaetura vauxi       B     Western Wood- Contopus       Pewee     sordidulus       B     Western       Sandpiper     Calidris mauri       D     Variad Thrush		G5/S1B, S3N 2				>
B     Western Wood-     Contopus       Pewee     sordidulus       B     Western     Calidris mauri       Sandpiper     Ivoraits naovine			×	×		
B Western Calidris mauri Sandpiper B Variad Thrush Ivoraus naovius			×	×		
B Wariad Thruch Ivoralic naevilie					Yellow List	
עמוזפט וווו טאוימסעומס אימסעומס				×	Yellow List	
B Western Sturnella neglecta Meadowlark	SC WV	G5/S5 4	×	×		>
B Vesper Sparrow Pooecetes Species gramineus	es of Concern SC	G5/T3/S2B, 2 S2N	×	××		
B White-breasted Sitta carolinensis Nuthatch (Slender-aculeata billed)	SV		×	×		D
B Wood Duck Aix sponsa			×			

Code	Species Name	Scienticif Name	USFWS	ODFW	<b>ORNHIC Rank</b>	List	NWPCC	PIF Focal	OWEB	ABC	City of Portland
ш	Steelhead, Lower Columbia River ESU	Oncorhynchus mykiss	5	sc	G5T2Q/S2	-		0000			
ш	Coho Salmon, Lower Columbia R./Southwest Washington ESU	Oncorhynchus kisutch	o	Щ	G4T2Q/S2	÷					۶
ш	Chum Salmon, Columbia River ESU	Oncorhynchus keta	L	SC	G5T2Q/S2	-					>
ш	River Lamprey	Lampetra ayresi	SoC		G4/S4	4					2
ш	Coastal Cutthroat Trout, SW WA/Col. R. ESU	Oncorhynchus clarki clarki	Т	sc	G4T2Q/S2	2					>
ш	Steelhead, Upper Willamette River ESU, winter run	Oncorhynchus mykiss	LT	sc	G5T2Q/S2	-					
ш	Chinook Salmon, Snake River Spr/Sum.run	Oncorhynchus tshawytscha	LT	5	G5T1Q/S1	-					
ш	Pacific Lamprey	Lampetra tridentata	SoC	SV	G5/S3	2					>
ш	Chinook Salmon, Upper Col. R. Spring-run	Oncorhynchus tshawytscha	Е		G5T1Q/SU						
ш	Steelhead, Middle Columbia River ESU	Oncorhynchus mykiss	LT	SC/SV	G5T2Q/S2	<del></del>					
ш	Steelhead, Snake River Basin ESU	Oncorhynchus mykiss	LT	SV	G5T2T3Q/S2S 3	÷					
ш	Steelhead, Upper Columbia River ESU	Oncorhynchus mykiss	Ш		G5T2Q/SU						
ш	Sockeye Salmon, Snake River ESU	Oncorhynchus nerka	LE		G5T1Q/SX	1 - ex					
ш	Chinook Salmon, Lower Columbia R. ESU	Oncorhynchus tshawytscha	LT	sc	G5T2Q/S2	-					٢

Code	Species Name	Scienticif Name	USFWS	ODFW	<b>ORNHIC Rank</b>	List	NWPCC	PIF Focal Species	OWEB	ABC	City of Portland Sensitive Species
ш	Coastal Cutthroat Trout, Upper Will. R. ESU	Oncorhynchus clarki clarki	SoC		G4T?Q/S3?	4					
ш	Chinook Salmon, Snake River Fall- run ESU	Oncorhynchus tshawytscha	LT	L	G5T1Q/S1	+					
ш	Chinook Salmon, Upper Will. R spring run	Oncorhynchus tshawytscha	LT		G5T2Q/S2	-					
Σ	Red Tree Vole	Arborimus = Phenacomys longicaudus	Species of Concern	SV	G3G4/S3S4	3	×				٢
Σ	Yuma Myotis	Myotis yumanensis	Species of Concern		G5/S3	4					>
Σ	White-footed Vole	Arborimus = Phenacomys albipes	Species of Concern		G3G4/S3	4					>
Σ	Western Gray Squirrel	Sciurus griseus		SV	G5/S4	в	×				>
Σ	Silver-haired Bat	Lasionycteris noctivagans	Species of Concern	SV	G5/S3S4	4					>
Σ	Northern River Otter	Lontra canadensis					×				
Σ	Long-legged Myotis	Myotis volans	Species of Concern	SV	G5/S3	4					>
Σ	Long-eared Myotis	Myotis evotis	Species of Concern		G5/S3	4					>
Σ	Hoary Bat	Lasiuris cinereus		SV	G5/S3	4					>
Σ	Fringed Myotis	Myotis thysanodes	Species of Concern	SV	G4G5/S2	2					>
Σ	Camas Pocket Gopher	Thomomys bulbivorus	Species of Concern		G3G4/S3S4	в					>
Σ	California Myotis	Myotis californicus		SV	G5/S3	4					
Σ	American Beaver	Castor canadensis					×				
Σ	Townsend's Big- eared Bat	Corynorhinus townsendii townsendii	Species of Concern	SC	G4/T3T4/S2	2	×				٢

Code	Species Name	Scienticif Name	USFWS	ODFW	<b>ORNHIC Ran</b>	k List	NWPCC	PIF Focal Species	OWEB	ABC	City of Portland Sensitive Species
с	Western Painted Turtle	Chrysemys picta bellii		sc	G5/S2	5			×		2
ш	Northwestern Pond Turtle	Actinemys marmorata	Species of Concern	SC	G3T3/S2	-	×		×		>

Code Speci	es Name	Scienticif Name	USFWS	ODFW	<b>ORNHIC Rank List</b>	NWPCC	PIF Focal Species	OWEB	ABC	City of Portland Sensitive Species
Code	в	bird								
	Ц	fish								
	A	amphibian								
	R	reptile								
	Μ	mammal								
Federal Status	LE	Listed Endangered	Species liste	d by the by the USI	FWS or NMFS as Endangered					
	LT	Listed Threatened	Species liste	d by the USFWS or	r NMFS as Threatened					
	PE	Proposed Endangered	Species prop	osed by the USFW.	'S or NMFS to be listed as Enc	langered under th	he ESA			
	ΡΤ	Proposed Threatened	Species prop	osed by the USFW.	'S or NMFS to be listed as Thr	eatened under th	le ESA			
	SoC	Species of Concern	Former C2 c USFWS is re	andidates which ne eviewing for consid	sed additional information in c leration as Candidates for listi	rder to propose <i>i</i> 1g under the ESA	as Threatened or A.	r Endangere	d under the ES	A. These are species which
	C	Candidate	Species for v	which NMFS or US.	FWS have sufficient informat	ion to support a l	proposal to list ı	under the ES	A.	
ODFW Status	LE	Listed Endangered	Species liste	d by ODFW or OD.	A as Endangered					
	LT	Listed Threatened	listed by OD	)FW or ODA as Thi	reatened					
	SC	Critical	Species for v immediate c disjunct pop	which listing as thre onservation actions ulations.	eatened or endangered is pend are not taken. Also considert	ing; or those for of critical are sor	which listing as me peripheral sp	threatened c	or endangered e at risk throu	may be appropriate if ghout their range, and some
	SV	Vulnerable	Species for v adequate pro the populatic	which listing as threater an other other and the other and the answer answer answer answer answer and the answer a	eatened or endangered is not b nd monitoring. In some cases g and improved protective mee	elieved to be imr the population is usures are needed	minent and can s sustainable, an 1 to maintain su	be avoided t id protective stainable poj	hrough continu measures are   pulations over	ued or expanded use of being implemented; in other time.
	SP	Peripheral or Naturally Rare	Peripheral si numbers hist minimum ret	pecies refer to those torically in Oregon quirement. Disjunc	e whose Oregon populations an because of naturally limiting <sup>1</sup> et populations of several specie	e on the edge of actors. Maintain as that occur in C	their range. Na ning the status q Dregon should n	aturally rare a juo for the h tot be confus	species are tho abitats and poj ed with periph	se which had low population pulations of these species is heral.
ODFW StratSp		Strategy Species	Identified as Ecoregion. 5	s a 'Strategy Species Strategy species are	s' in the ODFW Comprehensiv e those closely associated with	e Wildlife Conse 'Strategy Habita	ervation Strategy ts' or are declini	y for Oregon ing for a vari	(2005) for the lety of reasons	Willamette Valley .
ORNHP Rank	1	Critically imperiled	Critically im occurrences.	periled because of	extreme rarity or because it is	somehow especi	ally vulnerable	to extinction	or extirpation	, typically with 5 or fewer
	2	Imperiled	Imperiled be	scause of rarity or b	ecause other factors demonstr	ably make it very	$y$ vulnerable to $\epsilon$	sxtinction (e.	ttirpation), typ	sically with 6-20 occurrence
	3	Rare	Rare, uncom	mon or threatened,	but not immediately imperile	d, typically with	21-100 occurre	nces.		
	4	Long-term Concern	Not rare and	l apparently secure,	but with cause for long-term (	soncern, usually 1	more than 100 c	occurrences.		
	5	Secure	Demonstrab	ly widespread, abur	ndant, and secure					
	Н	Historical	Historical O	ccurrence, formerly	/ part of the native biota with t	he implied expec	ctation that it m	ay be redisco	overed.	
	F	Trinomial	The taxon ha	<sup>48</sup> a trinomial (a sub	bsnecies, variety or recognized	race)				

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Code Specie	es Name	Scienticif Name USF	SW	ODFW	ORNHIC Rank List	NWPCC	PIF Focal Species	OWEB	ABC	City of Portland Sensitive Species
	n	Unknown	Unknown rank.							
	NR	Not Ranked	Not yet ranked							
	IJ	Global Rank	The system was de Heritage Programs	veloped by The Jor Conservation	Nature Conservancy and is 1 Data Centers (CDCs) in all	maintained by T 1 50 states, in 44	he Association Canadian provit	for Biodivers ices, and in 1	ity Information 3 Latin America	(ABI) in cooperation with n countries.
	S	State Rank	The system was de Heritage Programs	veloped by The or Conservation	Nature Conservancy and is 1 Data Centers (CDCs) in all	maintained by T I 50 states, in 44	he Association Canadian provit	for Biodiversi ices, and in 1	ity Information 3 Latin America	(ABI) in cooperation with a countries.
	ð	Taxonomic Questions	Indicates the taxon	has taxonomic o	questions					
	ż	Uncertain	Assigned rank is ur	ncertain.						
	x	Extirpated	Presumed extirpate	d or extinct.						
ORNHP List	1	Threatened or extinct	List 1 contains spec	cies that are thre	satened with extinction or pr	resumed to be ex	tinct throughou	t their entire 1	range.	
	0	Threatened or extirpated	List 2 contains spe disjunct species wh genetic diversity of	sies that are thre ich are of conce a taxon. ORNF	atened with extirpation or p ern when considering specie HP regards extreme rarity as	oresumed to be e s diversity withi a significant th	xtirpated from t n Oregon's bor ceat and has inc	he state of Or ders. They ca luded species	egon. These are n be very signifi that are very rai	often peripheral or icant when protecting the re in Oregon on this list.
	б	Imperiled, more information needed	List 3 contains spec or throughout their	sies for which m range.	nore information is needed b	oefore status can	be determined,	but which m	ay be threatened	or endangered in Oregon
	4	Conservation concern	List 4 contains spec are currently secure While these species monitoring.	cies that are of c , as well as spec ; currently may	conservation concern but are cies which are declining in r not need the same active ma	e not currently th numbers or habii nagement atteni	reatened or end at but are still t ion as threatene	angered. Thi oo common tu ed or endange	is includes spec be proposed as red species, they	ies which are very rare but threatened or endangered. / do require continued