

# Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

## Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

<b>Project Name:</b>	Corvallis Natural Resource Inventory	<b>Wetland:</b>	WC-SQU-W-1
<b>Project Location:</b>	Benton County	<b>Wetland Type(s):</b>	PEM
<b>Date(s) of field work:</b>	8/2/2002	<b>Approx. Area (acres):</b>	4.78
<b>Onsite Assessment?:</b>	YES	<b>Investigator(s):</b>	CR/PF/PA
<b>Wetland Location:</b>	South of Hwy. 34, east of Brooklane Drive, west of Marys River		

### Function and Condition Assessment Answers

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1	C	Q-1	B	Q-1	A	Q-1	B
Q-2	C	Q-2	C	Q-2	A	Q-2	A	Q-2	B
Q-3	C	Q-3	C	Q-3	A	Q-3	B	Q-3	A
Q-4	C	Q-4	C	Q-4	B	Q-4	C	Q-4	B
Q-5	A	Q-5	B	Q-5	B	Q-5	C	Q-5	B
Q-6	A	Q-6	C	Q-6	A	Q-6	B	Q-6	C
Q-7	C					Q-7	B		
Q-8	B								
Q-9A									
Q-9B	C								

### Results:

<b>Wildlife Habitat</b>	Wetland provides habitat for some wildlife species
<b>Fish Habitat</b>	Wetland's fish habitat function is impacted or degraded
<b>Water Quality</b>	Wetland's water-quality function is intact
<b>Hydrologic Control</b>	Wetland's hydrologic control is impacted or degraded
<b>Sensitivity to Impact</b>	Wetland is potentially sensitive to future impacts

### Function and Condition Assessment Answers

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	B	Q-1	C	Q-1	C
Q-2	C	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	C	Q-3	A
Q-4	B	Q-4	A	Q-4	B	Q-4	B
Q-5B	C	Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B	Q-6	B	Q-6	B

### Results:

<b>Enhancement Potential</b>	Wetland has moderate potential for enhancement
<b>Education</b>	Wetland has potential for educational use
<b>Recreation</b>	Wetland is not appropriate or does not provide rec. opportunities
<b>Aesthetic Quality</b>	Wetland is considered to be pleasing

# Oregon Freshwater Wetland Assessment Methodology

## Functions and Conditions Summary Sheet



<b>Project:</b>	Corvallis Natural Resource Inventory	<b>Wetland:</b>	WC-SQU-W-1
<b>Location:</b>	Benton County	<b>Approx. Area (acres):</b>	4.78
<b>Date:</b>	8/2/2002	<b>Wetland Types(s):</b>	PEM
<b>Result:</b>	<b>Wetland provides habitat for some wildlife species</b>		
<b>Rationale:</b>	One Cowardin class with > 5 species	Adjacent Water Quality limited stream	
	Herbaceous vegetation, no ponding	Adjacent land use is primarily agriculture	
	Less than 0.5 acres of open water	Wetland buffer is less than 10%	
<b>Result:</b>	<b>Wetland's fish habitat function is impacted or degraded</b>		
<b>Rationale:</b>	Less than 25% of stream is shaded	Adjacent Water Quality Limited stream	
	Stream banks are extensively modified	Adjacent land use is primarily agriculture	
	<10% of stream has instream structures	Stream does not contain fish	
<b>Result:</b>	<b>Wetland's water-quality function is intact</b>		
<b>Rationale:</b>	Primary water source is precipitation	Surface water connection to other wetlands	
	Wetland floods/ponds in growing season	Adjacent land use is primarily agriculture	
	High wetland vegetation cover	Adjacent Water Quality Limited stream	
<b>Result:</b>	<b>Wetland's hydrologic control is impacted or degraded</b>		
<b>Rationale:</b>	Wetland is within 100 year floodplain	Herbaceous vegetation, no ponding	
	Wetland floods/ponds in growing season	Agriculture downslope of wetland	
	Water has unrestricted flow out of wetland	Agriculture upslope of wetland	
<b>Result:</b>	<b>Wetland is potentially sensitive to future impacts</b>		
<b>Rationale:</b>	Stream not modified	Adjacent land use is primarily agriculture	
	Water not taken out	Adjacent zoning is primarily agriculture	
	Adjacent Water Quality Limited stream	Herbaceous vegetation, no ponding	
<b>Result:</b>	<b>Wetland has moderate potential for enhancement</b>		
<b>Rationale:</b>	Wetland functions are impacted or degraded	Wetland is between 0.5 and 5 acres	
	Primary water source is precipitation	Wetland buffer is less than 10%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
<b>Result:</b>	<b>Wetland has potential for educational use</b>		
<b>Rationale:</b>	Wetland access by landowner permission	No access point to wetland exists	
	No visible hazards to public	Wetland is not limited mobility accessible	
	Public access to other habitats exist		
<b>Result:</b>	<b>Wetland is not appropriate or does not provide rec. opportunities</b>		
<b>Rationale:</b>	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	No trails or viewing areas exist	No hunting is allowed	
<b>Result:</b>	<b>Wetland is considered to be pleasing</b>		
<b>Rationale:</b>	One Cowardin class is visible	Wetland surrounded by landscaped areas	
	>50% of wetland can be seen	Natural odors present at wetland	
	No visual detractors are present	Continuous traffic and natural noises occur	

# Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



<b>Project Name:</b>	Corvallis Natural Resource Inventory	<b>Wetland:</b>	<b>WC-SQU-W-1</b>
<b>Project Location:</b>	Benton County	<b>Approx. Area (acres):</b>	4.78
<b>Date:</b>	8/2/2002	<b>Wetland Type(s):</b>	PEM

**Exclusions : This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".**

<b>1</b> Is this wetland artificially created entirely from upland and		
<b>a.</b> created for the purpose of controlling, storing, or maintaining stormwater	<input type="checkbox"/>	No
<b>b.</b> is used for active surface mining or as a log pond	<input type="checkbox"/>	No
<b>c.</b> is a ditch without a free and open connection to natural waters of the state	<input type="checkbox"/>	No
<b>d.</b> is less than 1 acre and created unintentionally from irrigation or construction	<input type="checkbox"/>	No
<b>e.</b> created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard	<input type="checkbox"/>	No
<b>2</b> Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)	<input type="checkbox"/>	No
<b>Exclusion criteria satisfied?</b>		<b>No</b>

**Mandatory Locally Significant Wetland Criteria : This wetland is locally significant if "Yes" is the answer to any of the criteria below.**

<b>1</b> Does the wetland provide <i>diverse wildlife habitat</i> ?	<input type="checkbox"/>	No
<b>2</b> Is the wetland's <i>fish habitat function intact</i> ?	<input type="checkbox"/>	No
<b>3</b> Is the wetland's <i>water quality function intact</i> ?	<input checked="" type="checkbox"/>	Yes
<b>4</b> Is the wetland's <i>hydrologic control function intact</i> ?	<input type="checkbox"/>	No
<b>5</b> Is the wetland less than 1/4 mile from a water body listed by DEQ as a <a href="#">water quality limited water body (303(d) list)</a> <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?	<input checked="" type="checkbox"/>	Yes
<b>6</b> Does the wetland contain a rare plant community?	<input type="checkbox"/>	No
<b>7</b> Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?	<input type="checkbox"/>	No
<b>8</b> Does the wetland have a direct surface water connection to a stream segment <a href="#">mapped by ODFW as habitat for indigenous anadromous salmonids</a> <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?	<input checked="" type="checkbox"/>	Yes
<b>Mandatory Locally Significant Wetland criteria satisfied ?</b>		<b>Yes</b>

**Optional Locally Significant Wetland Criteria : local governments may identify a wetland as significant if "Yes" is the answer to the criteria below**

<b>1</b> Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .	<input type="checkbox"/>	No
<b>2</b> Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?	<input type="checkbox"/>	No
<b>Optional Locally Significant Wetland criteria satisfied ?</b>		<b>No</b>

**Locally Significant Wetland**

# Wetland Characterization Sheet



**Project Name: Corvallis Natural Resource Inventory**

		Wetland Code:	<b>WC-SQU-W-1</b>
Date(s) of field work:	<b>8/2/2002</b>	Size (acres):	<b>4.78</b>
Data Sheet Numbers:	<b>175, 177, 178</b>	Cowardin Class(es):	<b>PEM</b>
Investigator(s):	<b>CR/PF/PA</b>	HGM Class(es):	<b>S/F</b>

Location -- Legal:	<b>T. 12S, R. 5W, S. 3</b>
Other:	<b>South of Hwy. 34, east of Brooklane Drive, west of Marys River</b>
Tax Lots:	<b>See accompanying table</b>
Hydrologic basin:	<b>SQUAW CREEK</b>
Soil -- Mapped series:	<b>Willamette silt loam, 0-3% slopes</b>
Hydrologic Source:	<b>Precipitation</b>

<b>Dominant Wetland Vegetation</b>			
<b>TREES / SHRUBS</b>		<b>VINES / HERBS</b>	
		<i>Alopecurus pratensis</i>	<b>Meadow Foxtail</b>
		<i>Alopecurus geniculatus</i>	<b>Water Foxtail</b>
		<i>Holcus lanatus</i>	<b>Common Velvet Grass</b>
		<i>Juncus effusus</i>	<b>Soft Rush</b>
		<i>Gnaphalium palustre</i>	<b>Lowland Cudweed</b>
		<i>Mentha pulegium</i>	<b>Penny-Royal</b>
		<i>Phalaris arundinacea</i>	<b>Reed Canary Grass</b>
		<i>Rumex crispus</i>	<b>Curly Dock</b>
		<i>Rorippa curvisiliqua</i>	<b>Western Yellow-Cress</b>

**Comments: Locally Significant Wetland**  
 Shallow drainage swale through grazed pasture on OSU land (old poultry barns). Swale has evidence of seasonal ponding and drains north to culvert under Brooklane Drive and then to Marys River. Smaller swale on east edge of field drains to Squaw Creek, near confluence with Marys River. Within floodplain, but no fish habitat as wetland is located on high terrace above river. Zoned Public Institutional. Current land use is agriculture. Adjacent upland species: *Daucus carota*, *Festuca arundinacea*, *Hypochaeris radicata*, *Trifolium pratense*

<b>COWARDIN CODES:</b>	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
<b>HGM CODES:</b>	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
	S = Slope	FL = Flats	