

## Reference Marsh Characteristics

Site	Blind Slough	Coal Creek	Millport Slough	Siletz Keys	Hidden Creek Marsh	Yaquina Swamp
Site type	study site	study site	study site	study site	study site	pilot test site
Estuary	Columbia	Nehalem	Siletz	Siletz	Coos	Yaquina
Approx. lat/long	46°11'34"N 123°34'45"W	45°44'30"N 123°51'15"W	44°53'18"N 123°59'46"W	44°54'00"N 124°00'50"W	43°17'31"N 124°19'29"W	44°36'45"N 123°54'08"W
Site size (ha)	152.0	50.8	48.0	15.7	4.6	7.3
Salinity zone	freshwater tidal	brackish	brackish	marine	brackish	brackish
Cowardin class code*	PFOR, PSSR	E2FOP	E2EMP	E2EMN	E2EMN, E2EMP	E2EM/SS
Cowardin class description	tidally-influenced palustrine shrub and forested	estuarine forested	estuarine emergent (high marsh)	estuarine emergent (low marsh)	estuarine emergent (low and high marsh)	estuarine emergent and scrub-shrub
NGS benchmark name, coordinates, elevation**	ROY_ADJUSTED 455845.42m 5115787.30m elev=5.564m	SWMP_ADJUSTED 433178.10m 5066126.33m elev=5.914m	STZ2 421327.37m 4970947.63m elev=4.73m	STZ1 420182.73m 4972031.69m elev=4.33m	HC_BENCHMARK 392667.36m 4794198.78m elev=2.30m	none

\* Cowardin classification in Table 1 is based on field measurements, including surface water salinity and vegetation. Classification may therefore differ from the National Wetland Inventory, which is based on remote data.

\*\* NGS benchmark coordinates: Units=meters; coordinate system= UTM Zone 10N, horizontal datum= NAD83, vertical datum=NAVD88.

## Study plot characteristics

Site	Plot	Width (m)	Length (m)
Blind Slough	P1	18.3	45.7
	P2	18.3	45.7
Coal Creek	P1	18.3	45.7
	P2	18.3	45.7
Millport Slough	P1	18.3	45.7
	P2	18.3	45.7
Siletz Keys	P1	18.3	45.7
	P2	18.3	45.7
Hidden Creek Marsh	P1	18.3	45.7
	P2	18.3	45.7
	P3	18.3	41.1
	P4	18.3	41.1
Yaquina Swamp	P5	18.3	45.7

**Monitoring parameters**

<b>CONTROLLING FACTORS</b>	
<b>Indicator category</b>	<b>Metric(s)</b>
Tidal hydrology	<ul style="list-style-type: none"><li>• Tidal inundation regime (frequency and duration of inundation)</li><li>• Tidal datums (MHW, MHHW)</li></ul>
Groundwater hydrology	<ul style="list-style-type: none"><li>• Water table depth (monitored only at high marsh, shrub and forested sites)</li></ul>
Topography	<ul style="list-style-type: none"><li>• Wetland surface elevation</li></ul>
Water quality	<ul style="list-style-type: none"><li>• Surface water salinity</li></ul>
Soils	<ul style="list-style-type: none"><li>• Soil salinity (electrical conductivity)</li><li>• Organic matter content</li><li>• pH</li><li>• Soil texture</li></ul>
<b>ECOSYSTEM STRUCTURE AND FUNCTION</b>	
Vegetation	<ul style="list-style-type: none"><li>• Plant community composition</li><li>• Woody plant density</li><li>• Tree basal area</li></ul>
Benthic macroinvertebrates	<ul style="list-style-type: none"><li>• Density</li><li>• Taxonomic composition</li></ul>