

Sewall Wetland Consulting, Inc.

PO Box 880 Fall City, WA 98024 Phone: 253-859-0515

March 12, 2025

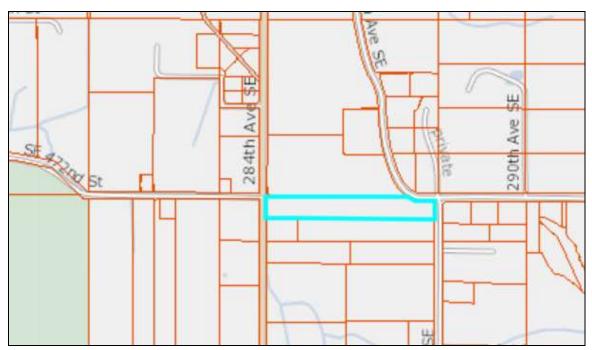
Scott Woodbury PO Box 662 Enumclaw, Washington 98022

RE: Critical Area Report – Parcel #3120079032

SWC Job #25-102

Dear Scott,

This report describes our observations of jurisdictional wetlands, streams and buffers on or within 225' of Parcel #3120079032, located on the east side of 284th Avenue SE, just east of its intersection with SE 472nd Street in the Enumclaw area of unincorporated King County, Washington (the "site").



Above: Vicinity Map of the site.

The site is an irregular shaped, 4.73 acre parcel located within the SE ¼ of Section 31, Township 20 North, Range 7 East of the W.M.

The site contains a single family home on its eastern end with the remainder being mowed pasture and a small forested area near the center.

Proposed Project

The proposed project is the replacement of a water line overdue for replacement across the site to service the home on the eastern side of the site as well as one other parcel. The water line will extend from 284th Avenue SE, easterly through the site and up the hill.

METHODOLOGY

Ed Sewall of Sewall Wetland Consulting, Inc. inspected the site on January 20, 2025. The site was reviewed using methodology described in the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory, 1987), and the *Western Mountains, Valleys and Coast region Supplement* (Version 2.0) dated June 24, 2010, as required by the US Army Corps of Engineers. Soil colors were identified using the 1990 Edited and Revised Edition of the Munsell Soil Color Charts (Kollmorgen Instruments Corp. 1990).



Above King County iMap air photo of the site.

OBSERVATIONS

Existing Site Documentation.

Prior to visiting the site, a review of several natural resource inventory maps was conducted. Resources reviewed included the National Wetland Inventory Map and the NRCS Soil Survey online mapping and Data and the King County iMap website with wetland and stream layers activated and WDNR Fpars stream mapping website and the WDFW Prioirty Habitats and Species maps.

King County iMap

The King County iMap website with wetland and stream layers activated depicts a stream classified as a Type 2S under the old SAO classification, which equates to a Type F stream under todays classification methods.

The west side of the site is also depicted within the 100 Year Floodplain as well as the Rural Residential Shoreline designation area.



Above King County iMap wetlands and stream mapping of the site.



Above King County iMap Shoreline Management Designation of the site.



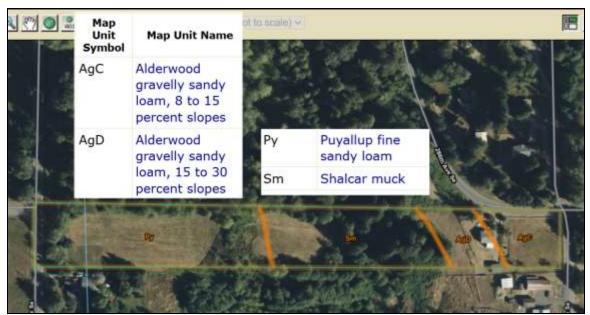
Above King County iMap 100 Year Floodplain map of the site.

Soil Survey

According to the NRCS Soil Mapper, the eastern side of the site is mapped as Alderwood gravelly sandy loam soils.

The central portion of the site is mapped as very poorly drained Shalcar muck soils, and the western side moderately well drained Puyallup fine sandy loam.

The Shalcar soil series is considered a wetland/hydric soils.



Above: USDA Soil Survey Map of the site

National Wetlands Inventory (NWI)

According to the NWI map for the site, there is an emergent and forested wetland in the same location as the Shalcar muck soil series. There is also a stream depicted along the western edge of the site.



Above: National Wetlands Inventory Map of the site.

WDNR Fpars Stream Mapping

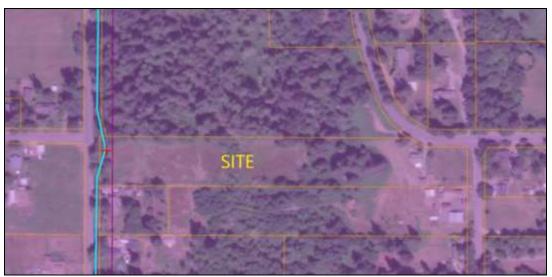
According to the WDNR Fpars stream mapping website, there is a Type F stream on the western side of the site.



Above: WDNR stream mapping for area of the site

WDFW Priority Habitats and Species Maps

According to the WDFW Priority Habitat and Species maps for the site, the site is within the area of elk habitat and winter range used by the White River herd. The stream on the western side of the site is depicted as supporting resident cutthroat trout and coho salmon.



Above: WDFW Priority Habitat and Species Map of the site. Pink shading indicates Elk habitat and the blue line represent stream used by cutthroat trout and coho salmon.

CADS14-0314 - Parcel #3120079101

A CAD map for the parcel immediately to the north (Parcel #3120079101) was signed 11-9-18 and appears to cover the eastern half of this parcel. It depicts a Category II wetland located north of the site. A copy of this CAD is included at the end of this report.

Field observations

Uplands

As previously described, the site is a roughly rectangular shaped parcel with a single family home on the eastern side of the site. County roads border the west and eastern ends of the site and large single family parcels border the north and south end of the site. A gravel farm road leads from the existing home down the slope to the west to the pasture on the western half of the site. A portion of the pasture has become fallow but most of it is mowed yearly. An old crossing of the creek along the western side of the site is present which was used to access the pasture from 284th Avenue SE. The creek flows along the western side of the site to the north and appears to be a southern fork or tributary of Boise Creek.

Soil pits excavated throughout the upland portion of the site on the west site revealed a gravelly loam soil with a chroma of 3-4 in the B horizon. Upland soil pits in this area site were dry to depths of -18" during our site visit. Soil pits on the eastern slope area were a gravelly loam with a B-horizon color of 10YR 3/2 and were also dry to the bottom of the pit.

Wetlands

There are two areas meeting wetland criteria on the site. Below is a description of these areas;

Wetland A

Wetland A is located near the center of the site and appears to extend offsite to the north and south. This is the same wetland identified as a Category II wetland on the parcel to the north in the 2018 CAD. This wetland was delineated with purple flags labeled A1-A5 (gps 433-438)on the west and AA1-AA4 on the east.

The wetland on-site is characterized by a mix of fallow emergent pasture as well as scrub-shrub areas. Vegetation in these areas includes soft rush, reed canary grass, fescue and buttercup, alder saplings and some sitka willow. Off-site the wetland is forested with alder and cedar in the overstory with salmonberry, willow and blackberry.

Soil pits excavated along the edge of the wetland revealed a sapric muck with a soil color of 10YR 2/2 and were saturated to the surface during our winter observation of the site.

Using the 2014 WADOE Wetland Rating system and rating the wetland as a depressional type wetland, this wetland scored a total of 20 points with 6 for habitat. This indicates a Category II wetland. A Category II wetland with 6 habitat points in the rural areas of King County for a moderate intensity land use such as a single family home have a 110' buffer measured from the wetland edge. In addition, a 15' BSBL is measured from the edge of the buffer to any structures. This buffer would not encroach onto the site.

7	INTENSITY OF IMPACT OF ADJACENT LAND USE					
WETLAND CATEGORY AND CHARACTERISTICS	HIGH IMPACT	MODERATE IMPACT	LOW IMPACT			
Category I		(0	+			
Wetlands of High Conservation Value	250 feet	190 feet	125 feet			
Bog	250 feet	190 feet	125 feet			
Estuarine	200 feet	150 feet	100 feet			
Coastal Lagoon	200 feet	150 feet	100 feet			
Forested	Buffer width to be based on score for habitat functions or quality functions					
Habitat score from 8 to 9 points (high level of function)	300 feet	225 feet	150 feet			
Habitat score from 6 to 7 points (moderate level of function)	150 feet	110 feet	75 feet			
Category I wetlands not meeting any of the criteria above	100 feet	75 feet	50 feet			
Category II	-					
Estuarine	150 feet	110 feet	75 feet			
Habitat score from 8 to 9 points (high level of function)	300 feet	225 feet	150 feet			
Habitat score from 6 to 7 points (moderate level of function)	150 feet	110 feet	75 feet			
Category II wetlands not meeting any of the criteria above	100 feet	75 feet	50 feet			
Category III			1			
Habitat score from 8 to 9 points (high level of function)	300 feet	225 feet	150 feet			
Habitat score from 6 to 7 points (moderate level of function)	150 feet	110 feet	75 feet			
Category III wetlands not meeting any of the criteria above	80 feet	60 feet	40 feet			
Category IV	50 feet	40 feet	25 feet			

Wetland B

Wetland B is a small emergent wetland in a shallow depression in the mowed pasture on the western side of the site. This area was delineated with gps points 439-442.

The wetland is characterized by a mix of soft rush and buttercup with a soil comprised of a sandy loam with a soil color of 7.5YR 2.5/2 with few, fine faint redoximorphic concentrations. Soils were saturated at a depth of -10" during our site visit.

Using the 2014 WADOE Wetland Rating system and rating the wetland as a depressional type wetland, this wetland scored a total of 18 points with 5 for habitat. This indicates a Category III wetland. A Category III wetland with 5 habitat points in the rural areas of King County for a moderate intensity land use such as a single family home have a \60' buffer measured from the wetland edge. In addition, a 15' BSBL is measured from the edge of the buffer to any structures. This buffer would not encroach onto the site.

Boise Creek tributary

As previously described, a northerly flowing ditched stream is located along the western edge of the site. An old farm road crossing with a culvert is present near the center of the western site edge. The OHWM of the creek was flagged with blue flags W1-W4 and E1-E4. The creek as a vertical dug ditch configuration wth blackberry, alder and reed canary grass alaong the edges.

This creek is depicted as a Type F stream on most invnetories however a "Residential Shoreline" is depicted along this same area. The classification of the channel is either a Type F or Type S water, both of which have a 165' buffer in this area.

Proposed Project

The proposed project is the replacement of an existing water line across the north side of the site. The old pipe location is not specifically known and will be abandoned in place. A new water line will be bored under the creek on the west, and then trenched across the western side of the site in the buffer areas, and then bored under Wetland A to the eastern hillside. Some temporary disturbance of the mowed pasture buffer on the west will occur during the boring and trenching. These areas will be restored back to pasture. Although no woody vegetation is proposed to be disturbed, any that is disturbed will be restored with native vegetation where needed.

If you have any questions in regards to this report or need additional information, please feel free to contact me at (253) 859-0515 or at esewall@sewallwc.com.

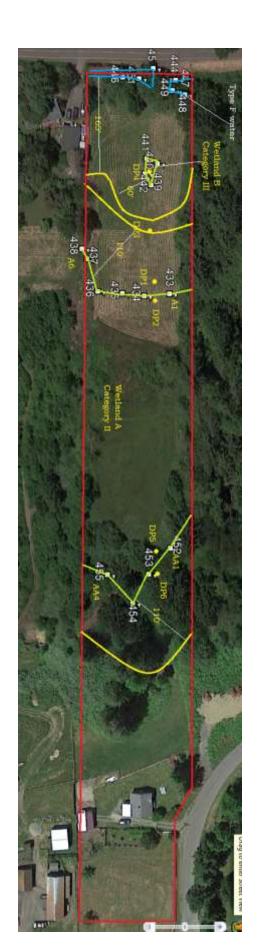
Sincerely,

Sewall Wetland Consulting, Inc.

Ed Sewall

Senior Wetlands Ecologist PWS #212

Attached: Rating Forms & data sheets



REFERENCES

Cowardin, L., V. Carter, F. Golet, and E. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service, FWS/OBS-79-31, Washington, D. C.

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Muller-Dombois, D. and H. Ellenberg. 1974. Aims and Methods of Vegetation Ecology. John Wiley & Sons, Inc. New York, New York.

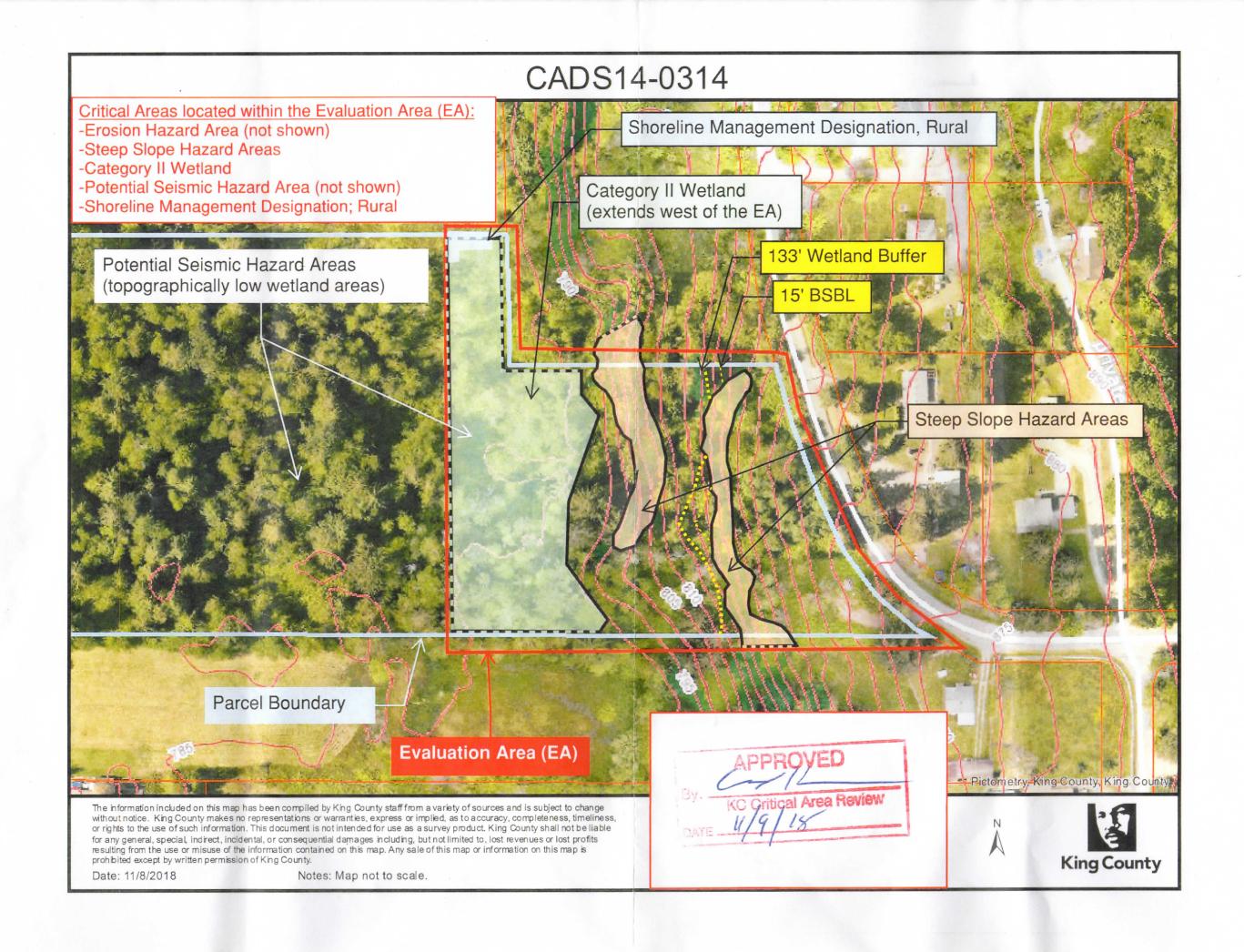
Munsell Color. 1988. Munsell Soil Color Charts. Kollmorgen Instruments Corp., Baltimore, Maryland.

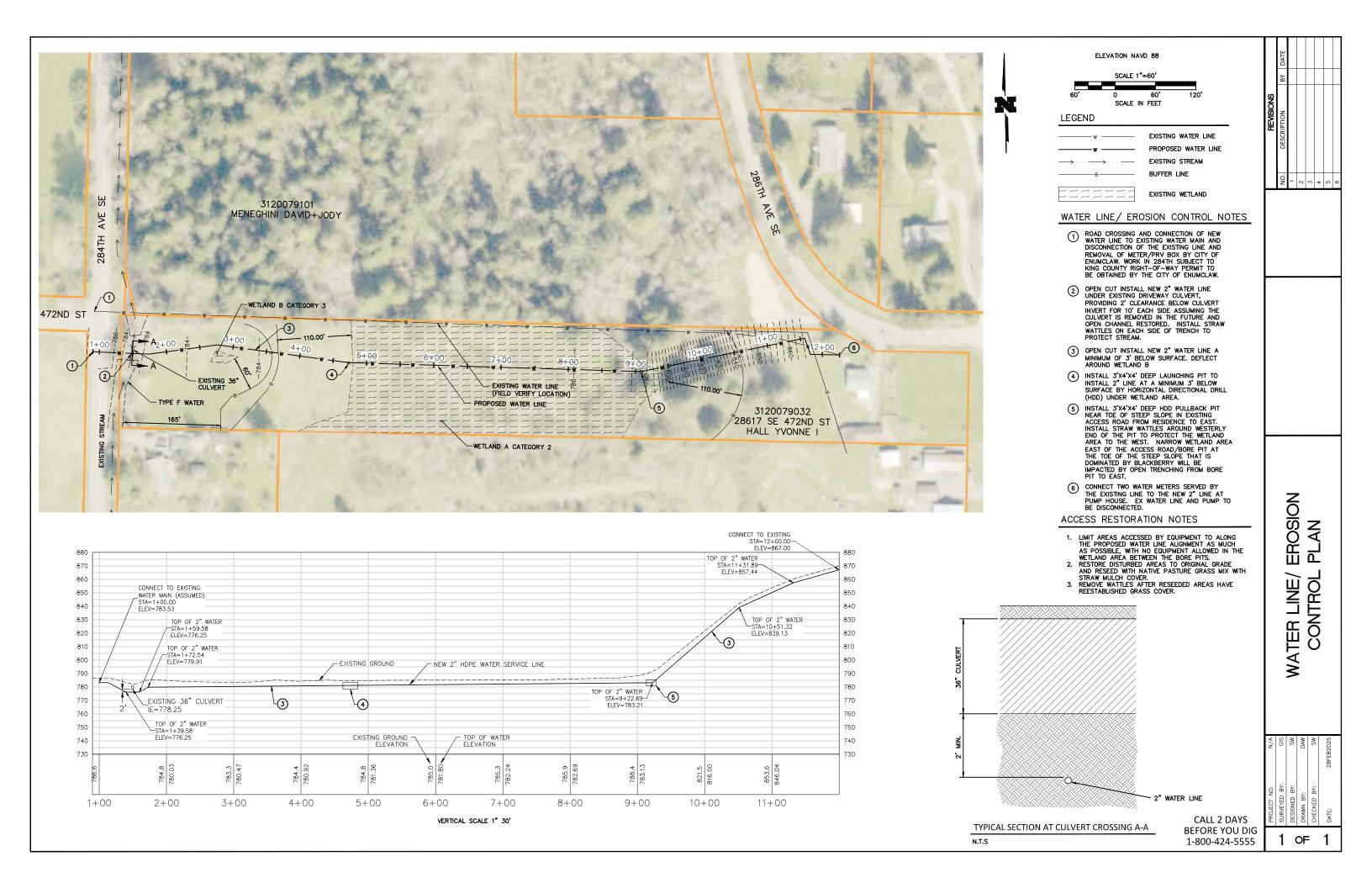
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Reed, P., Jr. 1988. National List of Plant Species that Occur in Wetlands: Northwest (Region 9). 1988. U. S. Fish and Wildlife Service, Inland Freshwater Ecology Section, St. Petersburg, Florida.

Reed, P.B. Jr. 1993. 1993 Supplement to the list of plant species that occur in wetlands: Northwest (Region 9). USFWS supplement to Biol. Rpt. 88(26.9) May 1988.

USDA NRCS & National Technical Committee for Hydric Soils, September 1995. Field Indicators of Hydric Soils in the United States - Version 2.1





WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Woodbury city/County: Project/Site: State: WA Sampling Point: Applicant/Owner: Semul Section, Township, Range: 531 TZON R7E Investigator(s): ___ Local relief (concave, convex, none): _____ Slope (%): _____ Landform (hillslope, terrace, etc.): ____ Lat: _____ Long: ____ Subregion (LRR): ____ ___ Datum: ____ Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area No Hydric Soil Present? Yes_ within a Wetland? Wetland Hydrology Present? Yes Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator % Cover Species? Status Dominance Test worksheet: Tree Stratum (Plot size: Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: **Percent of Dominant Species** (A/B) ___ = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: _____) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ FACW species _____ x 2 = __ FAC species _____ x 3 = __ FACU species ____ x 4 = __ _ = Total Cover UPL species _____ x 5 = ___ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = ____ Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% Prevalence Index is ≤3.01 ___ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. _= Total Cover Woody Vine Stratum (Plot size: Hydrophytic

_= Total Cover

US Army Corps of Engineers

Remarks:

% Bare Ground in Herb Stratum

Western Mountains, Valleys, and Coast - Interim Version

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HYDROLOGY Wetland Hydro Primary Indicato Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Surface So Inundation Sparsely Vo Field Observat Surface Water f Water Table Pro Saturation Press (includes capilla	logy Indicators: ors (minimum of one require ster (A1) Table (A2) (A3) is (B1) deposits (B2) its (B3) r Crust (B4) ts (B5) il Cracks (B6) Visible on Aerial Imagery (Be depetated Concave Surface (Bones: Present? Present? Yes ent? Yes any fringe)	Wate 1 Sait Aque Oxid Pres Reco Stun 37) Othe (B8) No Deg No Deg	er-Stained Leaves (B9) (except , 2, 4A, and 4B) Crust (B11) atic Invertebrates (B13) rogen Sulfide Odor (C1) ized Rhizospheres along Living ence of Reduced Iron (C4) ent Iron Reduction in Tilled Soils ated or Stressed Plants (D1) (LR er (Explain in Remarks) oth (inches): oth (inches):	MLRA Water-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) (C6) FAC-Neutral Test (D5) R A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Vetland Hydrology Present? Yes No
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wetend A

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

roject/Site: Woodbury/		City/County:	Kima	Co	Sampling Date: _	1-20-
roject/Site: Woodbury pplicant/Owner:			¥	State: WA	Sampling Point:	DP#
ivestigator(s):	ml	Section, Towns	hip, Range:	<u>531</u>	TZON R	7 <u>E</u>
andform (hillslope, terrace, etc.):						
ubregion (LRR):	Let:	-	Lon	·g:	Datu	m:
oil Map Unit Name: Puga //u	ρ	····		NWI classi	fication:	
re climatic / hydrologic conditions on the site typi	, cal for this time of ye	ar? Yes	No	_ (If no. explain in	Remarks.)	
e Vegetation, Soil, or Hydrology	significantly	disturbed?	Are "Norm	nal Circumstances	present? Yes	No
re Vegetation, Soil, or Hydrology	naturally pro	oblematic?		i, explain any ansv		
UMMARY OF FINDINGS - Attach sit	te map showing	sampling p	oint locat	ions, transect	s, important fe	atures, etc
Hydrophytic Vegetation Present? Yes						
Hydric Soil Present? Yes		i	mpled Area		/	
Wetland Hydrology Present? Yes		within a	Wetland?	Yes	No	•
Remarks:						
EGETATION – Use scientific names		Danis de la			£ _ £ £ .	
Free Stratum (Plot size:)	Absolute % Cover	Dominant Ind Species? St	otice	minance Test wo mber of Dominant		
				it Are OBL, FACW		(A)
		- Socker-statisch-bassa-skholder-skhilder "sonopouwe	Tol	al Number of Dom	inant	
			1 .	ecies Across All SI		(B)
		·	pe	rcent of Dominant	Snaciae	_
antiquiChach Charless /Distring		_ = Total Cover		at Are OBL, FACW		(A/B)
apling/Shrub Stratum (Plot size:			- Dec	valence index w	when ho at	
		s entretaineterministraturals établiques	FIG	Total % Cover of		y by:
		- American -			x1=	
		-			x2=	
					x3=	
		= Total Cover	FA	CU species	x4=	
lerb Stratum (Plot size:)	80	E	UP UP	L species	x5=	
. Festica andrew	7_0		Col	umn Totals:	(A)	(B)
Juneus effusis			7000	Denuniones Inde	x = B/A =	
				drophytic Vegeta		**************************************
				Dominance Test		
		· · · · · · · · · · · · · · · · · · ·	-	Prevalence Index		
				Morphological Ad	laptations¹ (Provide	
				data in Remai	ks or on a separate	
0.		-		· ·	ophytic Vegetation ¹	
1.		-			oil and wetland hydr sturbed or problema	
Jandy Vina Stratesm / Dist sing.		= Total Cover	<u> </u>			
Voody Vine Stratum (Plot size:	-1			drambu ett e		
				drophytic jetation		
		= Total Cover			'es No	*****
6 Bare Ground in Herb Stratum		- I Ordi OOAQA				
Remarks:			······································	**************************************		
						N. C. C. A. P. C.

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		11
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Camalina	Daint:	DP#Z
Samonno	POINT:	

Profile Description: (Describe to the of Depth Matrix		Redox Features			-	
nches) Color (moist) %	Color (moi		Type Loc2	Texture	<u>Remarks</u>	***************************************
16 164212				59016	, put	

	umint letinine its letin bitaine dissertation de letino	***************************************			THE BANK PROPERTY AND ADMINISTRATION OF THE PROPERTY OF THE PR	
	***************************************					**************************************
						
Type: C=Concentration, D=Depletion, F	M=Daducad Ma	riv CS=Covered o	v Coated Sand	Graine 21 o	cation: PL=Pore Lining, M=Mal	bris.
ydrio Soil Indicators: (Applicable to					ors for Problematic Hydric So	
Histosol (A1)		dox (S5)	•••		n Muck (A10)	
_ Histic Epipedon (A2)	-	Matrix (S6)			Parent Material (TF2)	
Black Histic (A3)		ucky Mineral (F1)	(excent MI RA		er (Explain in Remarks)	
Hydrogen Sulfide (A4)		leyed Matrix (F2)	(oxoopt mater		or (Explain III (tolliains)	
_ Depleted Below Dark Surface (A11)		Matrix (F3)				
Thick Dark Surface (A12)		ark Surface (F6)		3Indicate	ors of hydrophytic vegetation an	nd
_ Sandy Mucky Mineral (S1)		Dark Surface (F7)	•		nd hydrology must be present,	
Sandy Gleyed Matrix (S4)		epressions (F8)			s disturbed or problematic.	
estrictive Layer (if present):	***************************************					****************
Type:						
Depth (inches):	orffice) cannot un experimental			Hydric Soil	Present? Yes No	
emarks:		***************************************	***********	nyunc son	Fresenti 165 NO	,
					a kirilikin halifun dan dan kirin kirin kirin kirin makan melangkalan melan kirin kan pelanda anda sersasah Juan sersasah	
	kal filosofi kangi da jagumun ilika kini ka jakaka in musiking kin na niya an nikini ye kina pani Maran kangi ka					
fetland Hydrology Indicators:						
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/etland Hydrology Indicators: rimary Indicators (minimum of one requ Surface Water (A1)		it apply) er-Stained Leaves	(B9) (except N		ndary Indicators (2 or more requ	
letland Hydrology Indicators: rimary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2)	Wat		(B9) (except N			
fetland Hydrology Indicators: rimary Indicators (minimum of one requ _ Surface Water (A1)	Wat	er-Stained Leaves	(B9) (except N	ALRA V	Vater-Stained Leaves (B9) (MLI	
Vetland Hydrology Indicators: rimary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2)	Wat 1 Salt	er-Stained Leaves , 2, 4A, and 4B)		ILRA V	Vater-Stained Leaves (B9) (MLI 4A, and 4B)	
etland Hydrology Indicators: imary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3)	Wat 1 Salt Aqu	er-Stained Leaves , 2, 4A, and 4B) Crust (B11)	(B13)	######################################	Vater-Stained Leaves (B9) (MLI 4A, and 4B) trainage Patterns (B10)	RA 1, 2,
letland Hydrology Indicators: rimary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Wat 1 Salt Aqu Hyd	er-Stained Leaves , 2, 4A, and 4B) Crust (B11) atic Invertebrates (rogen Sulfide Odoi	(B13) r (C1)	ILRA V C S	Vater-Stained Leaves (B9) (MLI 4A, and 4B) trainage Patterns (B10) try-Season Water Table (C2)	RA 1, 2,
fetland Hydrology Indicators: rimary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Wat Salt Aqu Hyd Oxic	er-Stained Leaves , 2, 4A, and 4B) Crust (B11) atic Invertebrates (rogen Sulfide Odoi	(B13) r (C1) s along Living R	### UNITED TO SECONDS (C3) G	Vater-Stained Leaves (B9) (MLI 4A, and 4B) rrainage Patterns (B10) rry-Season Water Table (C2) aturation Visible on Aerial Imag	RA 1, 2,
rimary Indicators (minimum of one requirement of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Wat 1 Salt Aqu Oxic Pres	er-Stained Leaves , 2 , 4A , and 4B) Crust (B11) atic Invertebrates (rogen Sulfide Odor lized Rhizospheres	(B13) r (C1) s along Living R Iron (C4)	C	Vater-Stained Leaves (B9) (MLI 4A, and 4B) Prainage Patterns (B10) Pry-Season Water Table (C2) aturation Visible on Aerial Imag Beomorphic Position (D2)	RA 1, 2,
etland Hydrology Indicators: imary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Wat Salt Aqu Hyd Oxic Pres Rec	er-Stained Leaves , 2, 4A, and 4B) Crust (B11) atic Invertebrates (rogen Sulfide Odor lized Rhizospheres sence of Reduced i	(B13) r (C1) s along Living R iron (C4) in Tilled Soils (Coots (C3)	Vater-Stained Leaves (B9) (MLI 4A, and 4B) Prainage Patterns (B10) Pry-Season Water Table (C2) aturation Visible on Aerial Imag Beomorphic Position (D2) hallow Aquitard (D3)	RA 1, 2,
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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Woodbury city/county: King Co Sampling Date: 1-20-25 Project/Site:, State: WA Sampling Point: DP# 3 Applicant/Owner: Section, Township, Range: 531 Tzo N R7E Investigator(s): ____ Local relief (concave, convex, none): _____ Slope (%): ____ Landform (hillslope, terrace, etc.): ____ Lat: _____ Deturn: ____ Subregion (LRR): Poyallup NWI classification: Soil Map Unit Name: _____ Are climatic / hydrologic conditions on the site typical for this time of year? Yes ______No ____ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soil Present? _ No Yes within a Wetland? Yes ____ No_ Wetland Hydrology Present? Yes No. Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator | Dominance Test worksheet: Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species ____ = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: _____) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species ____ x 1 = _ 60 x2= 180 FACW species _ FAC species ____ FACU species 40 x4= 160 ___ = Total Cover Herb Stratum (Plot size: UPL species ____ x 5 = 60 FAL Column Totals: 100 (A) 340 (B) 40 FACU Prevalence Index = B/A = 3. 4 Hydrophytic Vegetation indicators: ___ Dominance Test is >50% Prevalence Index is ≤3.01 ___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. _= Total Cover Woody Vine Stratum (Plot size: Hydrophytic Vegetation _ No_ __= Total Cover

US Army Corps of Engineers

Remarks:

% Bare Ground in Herb Stratum

Western Mountains, Valleys, and Coast - Interim Version

20	41
30	11

Sampling Point:	DP#3	
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Depth <u>Matrix</u>	Redox Features	•
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
8 7.5 Yn 25/3		
16 10 4 3/4		suly by

		www.commonder.com.com.com.com.com.com.com.com.com.com
¹ Type: C=Concentration, D=Depletion, RM=	=Reduced Matrix, CS=Covered or Coated Sand G	Grains. ² Location: PL=Pore Lining, M=Ma
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Sc
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1	* ,
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	· · · · · · · · · · · · · · · · · · ·
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation a
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		The state of proventable.
Type:	Antonio	
Depth (inches):	turbiblious resum.	Hydric Soil Present? Yes N
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:		
	d; check all that apply)	Secondary Indicators (2 or more rec
Wetland Hydrology Indicators:		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	Water-Stained Leaves (B9) (except ML	.RA Water-Stained Leaves (89) (ML
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except ML 1, 2, 4A, and 4B)	.RA Water-Stained Leaves (B9) (ML 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (89) (except ML 1, 2, 4A, and 4B) Salt Crust (811)	.RA Water-Stained Leaves (B9) (ML 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except Mi. 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	.RA Water-Stained Leaves (B9) (ML 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except Mi. 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	.RA Water-Stained Leaves (B9) (ML 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima
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with B

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

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Project/Site: Woodbu	177	(City/County	r. Ki	ing C	0	Sampling Date: Sampling Point:	1-20-2
Applicant/Owner:		····			St	ste: WA	Sampling Point:	DP#4
investigator(s):	Seml		Section, To	wnship, Ra	nge:	531	TZU~ R	7E
Landform (hillslope, terrace, etc.):							Sk	
Subregion (LRR):		Lat:			Long:		Deti	ım:
Soil Map Unit Name: Pc	yallup					NWI classil	fication:	
Are climatic / hydrologic conditions on t	he site typical for this	time of yes	ır? Yes_	No			Remarks.)	
Are Vegetation, Soil, or				Are '			present? Yes	No
Are Vegetation, Soil, or		-					vers in Remarks.)	112
SUMMARY OF FINDINGS - A		•					** *	eatures, etc.
Hydrophytic Vegetation Present?	Yes / No							
Hydric Soil Present?	Yes No	***************************************	1	ne Sampled			1	
Wetland Hydrology Present?	Yes No		with	iin a Wetlai	id?	Yes	<u></u>	-
Remarks:				***************************************				
								inge on the case of the case o
				·		***************************************		
VEGETATION - Use scientific	names of plants	5.						
Trans Stratum (District		Absolute		Indicator	Domin	ince Test wo	rksheet:	
Tree Stratum (Plot size:	<i>-</i>	% Cover	Species?	Status		of Dominant		- (0)
1		***************************************		***************************************	InatAr	BOBL, FACW	OFFAC:	(A)
		entral process and the second			t	umber of Dom Across All St		
4.				***************************************	'			(B)
1			= Total Co	wer		of Dominant : BOBL, FACW		(A/B)
Sapling/Shrub Stratum (Plot size:)							(A/8)
1,				***************************************	1	nce index wo		
2.		***************************************	***************************************	***************************************		al % Cover of:		ly by:
3					1		x1* x2=	
5	***************************************			***************************************	1		x2= x3=	
			= Total Co	wer	1		x4=	
Herb Stratum (Plot size:)			- Carrier	1		×5=	i
1. Ranvolus repr	<u> </u>	60		-AU			(A)	
2. Juneus e FE's		30	***************************************	JAN -	_			
3							x = B/A =	
4						nytic vegetal ninance Test i	tion Indicators:	
6.				***************************************		valence Index		- Andrews
7.		·		***************************************	Mo	nphological Ad	iaptations1 (Provide	Supporting
8.				-		data in Remar	ks or on a separate	sheet)
9						tland Non-Vas		
10.					1		ophytic Vegetation	
11.					be pres	ors of hydric so ent, unless dis	oil and wetland hyd kurbad or problems	rology must
Months Vina Strateum (Dlat aine.	, .		* Total Co	ver	<u> </u>			
Woody Vine Stratum (Plot size: 1					Mardan -	hudia	/	
2.	-				Hydrop Vegeta	ion		
			= Total Co	/er	Presen	. A	es No_	
% Bare Ground in Herb Stratum								
Remarks:								

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- 53	€ T	ш	
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Sampling Point:

Depth (inches) Color (moist) % 7.5 1 2.5/- Type: C=Concentration, D=Depletion, If tydric Soil Indicators: (Applicable to Histosol (A1) Histosol (A1) Histosol Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Remarks:	RM=Reduced Material LRRs, unless Sandy Re Stripped Loamy M Loamy G Depleted Redox Da Depleted	rix, CS=Coveres otherwise not edox (S5) Matrix (S6)	d or Coated Sand Graed.)	Indicators for Pro 2 cm Muck (A' Red Parent Ma Other (Explain	aterial (TF2) in Remarks) phytic vegetation and gy must be present,
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ydric Soil Indicators: (Applicable to Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Iestrictive Layer (if present): Type: Depth (inches):	all LRRs, unless Sandy Re Stripped Loamy M Loamy G Depleted Redox Da Depleted	otherwise not edox (S5) Matrix (S6) ucky Mineral (F leyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F6)	ed.) 1) (except MLRA 1))	Indicators for Pro 2 cm Muck (A' Red Parent Mo Other (Explain Indicators of hydro wetland hydrolo	blematic Hydric Solls ³ : 10) aterial (TF2) in Remarks) ophytic vegetation and gy must be present,
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches):	Sandy Re Stripped Loamy M Loamy G Depleted Redox Da Depleted	edox (S5) Matrix (S6) ucky Mineral (F leyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F6)	1) (except MLRA 1))	2 cm Muck (A' Red Parent Ma Other (Explain 3Indicators of hydro wetland hydrolo	aterial (TF2) in Remarks) phytic vegetation and gy must be present,
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches):	Stripped Loamy M Loamy G Depleted Redox Da Depleted	Matrix (S6) ucky Mineral (F leyed Matrix (F2 Matrix (F3) ark Surface (F6) Dark Surface (F)	Red Parent Ma Other (Explain Indicators of hydro wetland hydrolo	aterial (TF2) in Remarks) phytic vegetation and gy must be present,
Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches):	Loamy M Loamy G Depleted Redox Da Depleted	ucky Mineral (F leyed Matrix (F2 Matrix (F3) ark Surface (F6) Dark Surface (F)	Other (Explain Indicators of hydro wetland hydrolo	in Remarks) ophytic vegetation and gy must be present,
Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches):	Loamy G Depleted Kedox Da Depleted	leyed Matrix (F2 Matrix (F3) ark Surface (F6) Dark Surface (F)	³ Indicators of hydro wetland hydrolo	ophytic vegetation and gy must be present,
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches):	Depleted Redox Da Depleted	Matrix (F3) ark Surface (F6) Dark Surface (F	,	wetland hydrolo	gy must be present,
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches):	Kedox Da Depleted	ark Surface (F6) Dark Surface (F		wetland hydrolo	gy must be present,
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches):	Depleted	Dark Surface (F		wetland hydrolo	gy must be present,
Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type:			7)	•	
estrictive Layer (if present): Type: Depth (inches):	Redox De	epressions (F8)	bolis felikuliki kitaliki na hina kitalin na kitalin na kitalin na kitalin na kitalin na na na na na na na na n	unless disturbe	t or problematic
Type:					· · · p· · · · · · · · · · · · · · · ·
Depth (inches):					
ernarks:	****			Hydric Soil Present?	Yes No
		terit i i magni di disebuara e coloren, ryeri de projenti sili i produce que	****		
YDROLOGY Vetland Hydrology Indicators:					
rimary Indicators (minimum of one requ	uired: check all tha	it anniv)		Secondary Indic	ators (2 or more required)
Surface Water (A1)			es (B9) (except MLR		
High Water Table (A2)		, 2, 4A, and 4B		4A, and	ed Leaves (B9) (MLRA 1, 2,
Saturation (A3)			•		•
		Crust (B11)	- (040)		atterns (B10)
Water Marks (B1)		atic Invertebrate	* *		Water Table (C2)
Sediment Deposits (B2)		rogen Sulfide O			isible on Aerial Imagery (C9
_ Drift Deposits (B3)			res along Living Root		: Position (D2)
Algal Mat or Crust (B4)		ence of Reduce		Shallow Aqu	
_ Iron Deposits (B5)			on in Tilled Soils (C6)		l Test (D5)
_ Surface Soil Cracks (B6)			Plants (D1) (LRR A)	Raised Ant	Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery	/ (B7) Othe	er (Explain in Re	marks)	Frost-Heave	Hummocks (D7)
Sparsely Vegetated Concave Surface	ce (B8)				
ield Observations:	7				The first control of the second control of t
urface Water Present? Yes	No/ Der	oth (inches):			/
/ater Table Present? Yes		oth (inches):			
aturation Present? Yes	1	oth (inches):	-10 100	nd Hydrology Present	Yes No
ncludes capillary fringe)	140 Del	z (1100 RGS)	- I statia	in ilaididh Liasail	? Yes No
escribe Recorded Data (stream gauge,	, monitoring well,	aerial photos, pr	evious inspections), if	available:	***************************************
lemarks:				**************************************	
		ran Taras Antonio de Malardo Inglia do c as			

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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

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Project/Site: Woodbury		City/County:	VIME			_ Sampling Date: _	15011
Applicant/Owner:				State	<u> </u>	_ Sampling Point: _	<u> </u>
		Section, Township				TZO~ R	······································
Landform (hillslope, terrace, etc.):	· · · in.	_ Local relief (conca	ive, conve	ex. none));	Slo _l	oe (%):
Subregion (LRR):	Lat:		Lon	ıg:		Datu	n:
Soil Map Unit Name: Poyallup							***************************************
Are climatic / hydrologic conditions on the site typical for thi	s time of y						
Are Vegetation, Soil, or Hydrology	significantl	y disturbed?	Are "Norm	nal Circui	mstances"	present? Yes	No
Are Vegetation, Soil, or Hydrology	naturally p	roblematic?	If needed	, explain	any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	g sampling poi	nt locat	ions, t	ransect	s, important fe	atures, etc.
				When de ville de la propieta de la constanta d	*************		
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes 1	6	is the Sam	pled Ares	1			
	lo	within a W	etland?		Yes	No	
Remarks:				· · · · · · · · · · · · · · · · · · ·	·····		

VEGETATION - Use scientific names of plan	its.						
Tree Stratum (Plot size:)	Absolute % Cove			minance	Test wor	ksheet:	
1. Thyja phonte	30	Species? Statu	- I Nu		Dominant S		
2.	-				,		(A)
3.			100		er of Domi		(B)
4.					Dominant S		
Continu/Charin Steatum /Dist size.		_ = Total Cover			3L, FACW,		(A/B)
Sapling/Shrub Stratum (Plot size:) 1. Pubus spectuals	50	FA	CP	walance	Index wo	rkshoot:	
2						Multiph	, hv
3.		-				x1=	
4		*	1			x2 #	
5.			FAC	C specie	s	×3=	
Herb Stratum (Plot size:)	***************************************	_ = Total Cover				x4=	
1. Planetes rep.	40) <i>F</i> A	/ LAJI			×5=	
2.			- Coi	umn iot	815:	(A)	(8)
3.		-		Preval	ence Inde	c = B/A =	
4.					_	on Indicators:	
5.					nce Test i		
6			- -		nce Index	is \$3.0 aptations¹ (Provide :	
8		-	- -	data	in Remark	is or on a separate	sheet)
9						cular Plants	-
10.						ophytic Vegetation ¹	
11.			'Ind	licators o present.	of hydric so unless dist	il and wetland hydr urbed or problemat	ology must
Mandy Vine Otentum (Plat sing)	***************************************	_= Total Cover					-
Woody Vine Stratum (Plot size:) 1					_		
2.				irophyti jetation	C		
		= Total Cover	Pre	sent?	Ye	s No	
% Bare Ground in Herb Stratum				-	**************************************		
Remarks:							
	 	***************************************	····				
US Army Corps of Engineers			Wester	m Mount	tains. Valle	ys, and Coast - Int	erim Version

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XI III	
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Sampling Point: DP#5

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type Loc 16	Texture Remarks
	930
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand	d Grains. ² Location: PL=Pore Lining, M=Matrix.
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2) Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11) Depleted Matrix (F3)	
Thick Dark Surface (A12) Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4) Redox Depressions (F8)	unless disturbed or problematic.
estrictive Layer (if present):	
Туре:	
Depth (inches):	Hydric Soil Present? Yes No
emarks:	
YDROLOGY Vetland Hydrology Indicators:	
rimary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
_ Surface Water (A1) Water-Stained Leaves (B9) (except	
High Water Table (A2) 1, 2, 4A, and 4B)	
	4A, and 4B)
	Drainage Patterns (B10)
Water Marks (B1) Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9
Drift Deposits (B3) Oxidized Rhizospheres along Living	
Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5) Recent Iron Reduction in Tilled Soils	RA) Raised Ant Mounds (D6) (LRR A)
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LR	
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRI Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Stunted or Stressed Plants (D1) (LRI) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Stunted or Stressed Plants (D1) (LRI) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Ield Observations: Stunted or Stressed Plants (D1) (LRI) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Ield Observations: Surface Water Present? Sturface Value or Stressed Plants (D1) (LR) Other (Explain in Remarks) Depth (inches):	Frost-Heave Hummocks (D7)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Ield Observations: Surface Water Present? Ves No Depth (inches): Very No Depth (inches):	Frost-Heave Hummocks (D7) Netland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Ield Observations: Urface Water Present? Ves No Depth (inches): Vater Table Present? Yes No Depth (inches):	Netland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Ield Observations: Surface Water Present? Ves No Depth (inches): Staturation Present? Yes No Depth (inches): Staturation Present?	Netland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Ield Observations: Surface Water Present? Ves No Depth (inches): Staturation Present? Yes	Netland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Sield Observations: Surface Water Present? Ves No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Social Concave Surface (B8) Sield Observations: Surface Water Present? Ves No Depth (inches): Saturation Present? Ves No Depth (inches): Social Concave Surface (B8) Stunted or Stressed Plants (D1) (LRI) (Explain in Remarks) Depth (inches): Social Concave Surface (B8)	Netland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Geld Observations: Surface Water Present? Ves No Depth (inches): Depth (inches):	Netland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Sield Observations: Surface Water Present? Ves No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Social Concave Surface (B8) Sield Observations: Surface Water Present? Ves No Depth (inches): Saturation Present? Ves No Depth (inches): Social Concave Surface (B8) Stunted or Stressed Plants (D1) (LRI) (Explain in Remarks) Depth (inches): Social Concave Surface (B8)	Netland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Ield Observations: urface Water Present? Ves No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): vater Table Present? Yes	Netland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Ield Observations: urface Water Present? Yes No Depth (inches): Jater Table Present? Yes No Depth (inches): aturation Present? Yes No Depth (inches): Journal of the present of the presen	Netland Hydrology Present? Yes No

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Woodbury City/County: King Co Sampling Date: 1-20-25 Project/Site: State: WA Sampling Point: Applicant/Owner: __ Section, Township, Range: 531 Tzo ~ R.7E Investigator(s): ____ Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Slope (%): Lat: _____ Long: ____ Subregion (LRR): ____ Datum: _____ Soil Map Unit Name: _____ NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes ______ (If no. explain in Remarks.) Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soil Present? Yes_ within a Wetland? Wetland Hydrology Present? Yes Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: That Are OBL, FACW, or FAC: __ = Total Cover Sapling/Shrub Stratum, (Plot size: _ 80 1. Pubus diserm Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 × FACW species _____ x 2 = ___ FAC species _____ x 3 = ___ FACU species ____ x 4 = __ = Total Cover Herb Stratum (Plot size: UPL species ____ x 5 = ___ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = ____ Hydrophytic Vegetation indicators: __ Dominance Test is >50% Prevalence Index is ≤3.01 ___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. _= Total Cover Woody Vine Stratum (Plot size: Hydrophytic Vegetation __= Total Cover % Bare Ground in Herb Stratum

Western Mountains, Valleys, and Coast - Interim Version

Remarks:

US Army Corps of Engineers

Sampling Point:	Stell .
Sampling Point:	Dr 4

nches)	Depth		atrix				x Feature:				
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Ibidation Communication Coated Sand Grains Coated Grains Coate	nches)		-	<u> </u>	Color (moi	st)	%	Type ¹	Loc²	Texture	Remarks
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A1) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Redy Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Surface (F6) Sandy Surface (F6) Sandy Sandy Mucky Mineral (S1) Sandy Sandy Mineral (S1) Sandy Sandy Mucky Mineral (S1) Water-Stained Leaves (B9) (Mucky A1, 34, 34, 34, 34, 34, 34, 34, 34, 34, 34	16	10 H	3/2_							90	
dric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Rodox (S5) Red Parent Material (TF2) Black Histic (A3) Loarny Mucky Mineral (F1) (except MLRA 1) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Derk Surface (F6) Sandy Mucky Mineral (S1) Sandy Sideyed Matrix (S4) Redox Depressions (F8) Depleted Dark Surface (F6) Sartictive Layer (if present): Type: Depth (inches): Depth (inches): Depth (inches): Depth (inches): Surface Water (A1) Water Table (A2) Salvation (A3) Salvation (A3) Water Marks (B1) Aquatic Invertebrates (B13) Again Mat or Crust (B4) Presence of Reduced ron (C4) Surface Water (B3) Agail Mat or Crust (B4) Iron Deposits (B3) Surface (B6) Surf										•	
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosci (A1)		***************************************					• *************************************			**************************************	
Addit Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1)		***************************************				·····	-		***************************************		
Addit Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1)		***************************************				···········			***************************************		
dric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Sandy Redox (S5) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Derk Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Derk Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Redox Derk Surface (F6) Redox Derk Surface (F7) Redox Derk Surface (F6) Redox Derk Surface (F6) Redox Derk Surface (F7) Redox Derk Surface (F6) Redox Derk Surface (F6) Redox Derk Surface (F6) Redox Derk Surface (F6) Redox Derk Surface (F7) Redox Derk Surface (F6) Redox Derk Surf							-		***************************************		
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A1) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Redy Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Surface (F6) Sandy Surface (F6) Sandy Sandy Mucky Mineral (S1) Sandy Sandy Mineral (S1) Sandy Sandy Mucky Mineral (S1) Water-Stained Leaves (B9) (Mucky A1, 34, 34, 34, 34, 34, 34, 34, 34, 34, 34											
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Army Corps of Engineers Western Mountains, Valleys, and Coast – Interim Versi	Army Con	os of Engineer	3						We	stern Mountains	s, Valleys, and Coast – Interim Vers

RA1	ING SUM	MARY	′ – W	ester	n Wasl	nington
Name of wetland (o	or ID #):	odby	Wet/	4	Date of	f site visit: 1-20-29
Rated by	'Soul	/ Tra	ained by	Ecology 1	 ? YesN	f site visit: 1-20-29 No Date of training
HGM Class used for	rrating Depa	esiral	_ Wetla	ind has i	multiple HGI	M classes? <u></u> YN
			-			an be combined).
Source of	f base aerial pho	to/map	Coo	gle en	ty zoz	4
1. Category of v		on FUNC	TIONS		o o. s	pecial characteristics
	Category II – Tota	al score =	20 - 22			Score for each function based
	Category III – Tot	tal score =	16 - 19			on three ratings
	Category IV – Tot	tal score =	9 - 15			(order of ratings is not important)
FUNCTION	Improving	Hydrolo	gic F	labitat		9 = H, H, H
	Water					8 = H, H, M
	Quality	Cinal at				7 = H, H, L
Cit - D-tti-l		·	ne appropri		<u>, </u>	7 = H, M, M
Site Potential	H M L	H M	(D) H	(M)	L I	1 C 11 NA 1
Landscape Potenti		H (M)	LH	(A)		6 = H, M, L 6 = M, M, M

L H M L TOTAL

20

2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	CATEGORY
Estuarine	I II
Wetland of High Conservation Value	I
Bog	I
Mature Forest	I
Old Growth Forest	I
Coastai Lagoon	I II
Interdunal	I II III IV
None of the above	

M

6

Wetland Rating System for Western WA: 2014 Update Rating Form – Version 2, July 2023

Value

Ratings

Score Based on

5 = H, L, L

5 = M, M, L

4 = M, L, L

3 = L, L, L

Wetland name or number	4
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Maps and figures required to answer questions correctly for Western Washington

Depressional Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	D 1.3, H 1.1, H 1.4	
Hydroperiods	D 1.4, H 1.2	
Location of outlet (can be added to map of hydroperiods)	D 1.1, D 4.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	D 2.2, D 5.2	
Map of the contributing basin	D 4.3, D 5.3	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	D 3.1, D 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	D 3.3	

Riverine Wetlands

Aiverifie wetianus		
Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	
Hydroperiods	H 1.2	
Ponded depressions	R 1.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	R 2.4	
Plant cover of trees, shrubs, and herbaceous plants	R 1.2, R 4.2	
Width of unit vs. width of stream (can be added to another figure)	R 4.1	
Map of the contributing basin	R 2.2, R 2.3, R 5.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	R 3.1	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	R 3.2, R 3.3	

Lake Fringe Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	L 1.1, L 4.1, H 1.1, H 1.4	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of area within 150 ft of the wetland (can be added to another figure)	L 2.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	L 3.1, L 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	L 3.3	

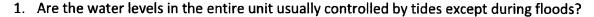
Slope Wetlands

Map of:	To answer questions:	Figure #	
Cowardin plant classes	H 1.1, H 1.4		
Hydroperiods	H 1.2		
Plant cover of dense trees, shrubs, and herbaceous plants	S 1.3		
Plant cover of dense, rigid trees, shrubs, and herbaceous plants (can be added to figure above)	S 4.1		
Boundary of 150 ft buffer (can be added to another figure)	S 2.1, S 5.1		
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	S 3.1, S 3.2		
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	S 3.3		

HGM Classification of Wetlands in Western Washington

For questions 1-7, the criteria described must apply to the entire unit being rated.

If the hydrologic criteria listed in each question do not apply to the entire unit being rated, you probably have a unit with multiple HGM classes. In this case, identify which hydrologic criteria in questions 1-7 apply, and go to Question 8.



NO - go to 2

YES – the wetland class is Tidal Fringe – go to 1.1

1.1 Is the salinity of the water during periods of annual low flow below 0.5 ppt (parts per thousand)?

NO - Saltwater Tidal Fringe (Estuarine)

YES - Freshwater Tidal Fringe

If your wetland can be classified as a Freshwater Tidal Fringe use the forms for **Riverine** wetlands. If it is Saltwater Tidal Fringe, it is an **Estuarine** wetland and is not scored. This method **cannot** be used to score functions for estuarine wetlands.

2. The entire wetland unit is flat, and precipitation is the only source (>90%) of water to it. Groundwater and surface water runoff are NOT sources of water to the unit.

NO - go to 3

YES - The wetland class is Flats

If your wetland can be classified as a Flats wetland, use the form for Depressional wetlands.

- 3. Does the entire wetland unit **meet all** of the following criteria?
 - ___The vegetated part of the wetland is on the shores of a body of permanent open water (without any plants on the surface at any time of the year) at least 20 ac (8 ha) in size,
 - __At least 30% of the open water area is deeper than 6.6 ft (2 m).

NO-go to 4

YES – The wetland class is Lake Fringe (Lacustrine Fringe)

- 4. Does the entire wetland unit **meet all** of the following criteria?

 - The water flows through the wetland in one direction (unidirectional) and usually comes from seeps. It may flow subsurface, as sheet flow, or in a swale without distinct banks,
 - __The water leaves the wetland without being impounded.

NO – go to 5

YES - The wetland class is Slope

NOTE: Surface water does not pond in these type of wetlands except occasionally in very small and shallow depressions or behind hummocks (depressions are usually <3 ft diameter and less than 1 ft deep).

Wetland name or number	
 Does the entire wetland unit meet all ofThe unit is in a valley, or stream characteristics. stream or river,The overbank flooding occurs at least 	annel, where it gets inundated by overbank flooding from that
NO – go to 6 NOTE: The Riverine unit can contain dep	YES – The wetland class is Riverine pressions that are filled with water when the river is not flooding
• •	nic depression in which water ponds, or is saturated to the surface, at that any outlet, if present, is higher than the interior of the wetland.
NO – go to 7	YES – The wetland class is Depressional

7. Is the entire wetland unit located in a very flat area with no obvious depression and no overbank flooding? The unit does not pond surface water more than a few inches. The unit seems to be maintained by high groundwater in the area. The wetland may be ditched but has no obvious natural outlet.

NO - go to 8

YES – The wetland class is Depressional

at

8. Your wetland unit seems to be difficult to classify and probably contains several different HGM classes. For example, seeps at the base of a slope may grade into a riverine floodplain, or a small stream within a Depressional wetland has a zone of flooding along its sides. GO BACK AND IDENTIFY WHICH OF THE HYDROLOGIC REGIMES DESCRIBED IN QUESTIONS 1-7 APPLY TO DIFFERENT AREAS IN THE UNIT (make a rough sketch to help you decide). Use the following table to identify the appropriate class to use for the rating system if you have several HGM classes present within the wetland unit being scored.

NOTE: Use this table only if the class that is recommended in the second column represents 10% or more of the total area of the wetland unit being rated. If the area of the HGM class listed in column 2 is less than 10% of the unit; classify the wetland using the class that represents more than 90% of the total area.

HGM classes within the wetland unit being rated	HGM class to use in rating	
Slope + Riverine	Riverine	1
Slope + Depressional	Depressional	4
Slope + Lake Fringe	Lake Fringe	
Depressional + Riverine along stream	Depressional	1
within boundary of depression		
Depressional + Lake Fringe	Depressional	
Riverine + Lake Fringe	Riverine	
Salt Water Tidal Fringe and any other	Treat as	1
class of freshwater wetland	ESTUARINE	

If you are still unable to determine which of the above criteria apply to your wetland, or if you have more than 2 HGM classes within a wetland boundary, classify the wetland as Depressional for the rating.

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DEPRESSIONAL AND FLATS WETLANDS Hydrologic Functions - Indicators that the site functions to reduce flooding and stream degradate	ion
D 4.0. Does the site have the potential to reduce flooding and erosion?	
D 4.1. Characteristics of surface water outflows from the wetland: Wetland is a depression or flat depression with no surface water leaving it (no outlet) Wetland has an intermittently flowing stream/ditch, OR highly constricted permanently flowing outlet points = 2 Wetland is a flat depression (question 7 on key), whose outlet is a permanently flowing ditch Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing points = 0	2
D 4.2. Depth of storage during wet periods: Estimate the height of ponding above the bottom of the outlet. For wetlands with no outlet, measure from the surface of permanent water or if dry, the deepest part. Marks of ponding are 3 ft or more above the surface or bottom of outlet points = 7 Marks of ponding between 2 ft to < 3 ft from surface or bottom of outlet points = 5 Marks are at least 0.5 ft to < 2 ft from surface or bottom of outlet points = 3 The wetland is a "headwater" wetland points = 3 Wetland is flat but has small depressions on the surface that trap water points = 1 Marks of ponding less than 0.5 ft (6 in) points = 0 D 4.3. Contribution of the wetland to storage in the watershed: Estimate the ratio of the area of upstream basin contributing surface water to the area of the wetland unit itself. The area of the basin is less than 10 times the area of the unit points = 5	0
The area of the basin is 10 to 100 times the area of the unit The area of the basin is more than 100 times the area of the unit Entire wetland is in the Flats class points = 5	3
Total for D 4 Add the points in the boxes above	5
Rating of Site Potential If score is:12-16 = H6-11 = M0-5 = L	first page
D 5.0. Does the landscape have the potential to support hydrologic functions of the site?	
D 5.1. Does the wetland receive stormwater discharges? Yes = 1 No = 0	t l
D 5.2. Is >10% of the area within 150 ft of the wetland in land uses that generate excess runoff? Yes = $1 \text{ No} = 0$	7,
D 5.3. Is more than 25% of the contributing basin of the wetland covered with intensive human land uses (residential at >1 residence/ac, urban, commercial, agriculture, etc.)? Yes = 1×10^{-10}	0
Total for D 5 Add the points in the boxes above	2
Rating of Landscape Potential If score is:3 = H1 or 2 = M0 = L Record the rating on the	first page
D 6.0. Are the hydrologic functions provided by the site valuable to society?	
D 6.1. Is the unit in a landscape that has flooding problems? Choose the description that best matches conditions around the wetland unit being rated. Do not add points. Choose the highest score if more than one condition is met. The wetland captures surface water that would otherwise flow downgradient into areas where flooding has damaged human or natural resources (e.g., houses or salmon redds): Flooding occurs in a sub-basin that is immediately downgradient of unit. Surface flooding problems are in a sub-basin farther downgradient. Flooding from groundwater is an issue in the sub-basin. The existing or potential outflow from the wetland is so constrained by human or natural conditions that the water stored by the wetland cannot reach areas that flood. Explain why points = 0 There are no problems with flooding downstream of the wetland.	7
D 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan? Yes = 2 No = 0	c
Total for D 6 Add the points in the boxes above	2
Rating of Value If score is:2-4 = H1 = M0 = L	
Rating of Value It score is: 2-4 = H 1 = M 0 = L Record the rating on the	first page

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H 1.0. Does the site have the potential to provide habitat?		
H 1.1. Structure of plant community: Indicators are Cowardin class Cowardin plant classes in the wetland. Up to 10 patches m of ¼ ac if the unit is at least 2.5 ac, or more than 10% of th	nay be combined for each class to meet the threshold	
Aquatic bed	4 structures or more: points	
Aquatic bed Emergent	3 structures: points = 2	
	2 structures: points = 1	
	1 structure: points = 0	
If the unit has a Forested class, check if:	1 structure, points = 0	
The Forested class has 3 out of 5 strata (canopy, sub-	canony shruhs herbaceous moss/groundcover) that	4
each cover 20% within the Forested polygon	editopy, sitt abs, fierbaccous, filoss, groundcover, that	,
H 1.2. Hydroperiods		
Check the types of water regimes (hydroperiods) present value more than 10% of the wetland if the unit is < 2.5 ac, or $\%$ a descriptions of hydroperiods).	c if the unit is at least 2.5 ac to count (see text for	
Permanently flooded or inundated	4 or more types present: points = 3	
Seasonally flooded or inundated	3 types present: points = 2	
9ecasionally flooded or inundated	2 types present: point = 1	
Saturated only	1 type present: points = 0	
Permanently flowing stream or river in, or adjacent to		
Intermittently or seasonally flowing stream in, or adja	•	1
Lake Fringe wetland	2 points	(
Freshwater tidal wetland	2 points	
H 1.3. Richness of plant species		
Count the number of plant species in the wetland that cov	3	
Different patches of the same species can be combined to		
name the species. Do not include Eurasian milfoil, reed ca If you counted: > 19 species		
5 - 19 species	points = 2	
< 5 species	points = 1	2
H 1.4. Interspersion of habitats	points = 0	
Decide from the diagrams below whether interspersion and the classes and unvegetated areas (can include open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have four or more plant classes or three classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the classes and open water have been successful to the	r or mudflats) is high, moderate, low, or none. If you	
	30	
None = 0 points Low = 1 point	Moderate = 2 points	
All three diagrams in this row are High = 3 points		Z

H 2.0. Does the landscape have the potential to support the habitat functions of the site?		
H 2.1. Accessible habitat (include only habitat polygons accessible from the wetland.		
Calculate: % relatively undisturbed habitat $5 + [(\% \text{ moderate and low intensity land uses})/2]$	= <u>/3</u> %	
Total accessible habitat is:		
$> \frac{1}{3}$ (33.3%) of 1 km Polygon	points = 3	
20-33% of 1 km Polygon	points = 2	
10-19% of 1 km Polygon	points = 1	1
< 10% of 1 km Polygon	points = 0	,
H 2.2. Total habitat in 1 km Polygon around the wetland.		
Calculate: % relatively undisturbed habitat 36 + [(% moderate and low intensity land uses)/2] //	= <u>40</u> %	
Total habitat > 50% of Polygon	points = 3	
Total habitat 10-50% and in 1-3 patches	points = 2	
Total habitat 10-50% and > 3 patches	points = 1	-
Total habitat < 10% of 1 km Polygon	points = 0	_
H 2.3. Land use intensity in 1 km Polygon:		
> 50% of 1 km Polygon is high intensity land use	ooints = (- 2)	
≤ 50% of 1 km Polygon is high intensity	points = 0) 0
Total for H 2 Add the points in the	ooxes above	3

Rating of Landscape Potential If score is: __4-6 = H _____<1 = L

Record the rating on the first page

H 3.0. Is the habitat provided by the site valuable to society?			
H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies that applies to the wetland being rated.	es? Choose only the highest score		
Site meets ANY of the following criteria:	points = 2		
— It has 3 or more Priority Habitats within 100 m (see next page)	'		
 It provides habitat for Threatened or Endangered species (any plant or ar It is mapped as a location for an individual WDFW Priority Species 	nimal on the state or federal lists)		
It is a Wetland of High Conservation Value as determined by the Department	nent of Natural Resources data		
— It has been categorized as an important habitat site in a local or regional			
Shoreline Master Plan, or in a watershed plan Site has 1 or 2 Priority Habitats (listed on next page) within 100 m	points = 1		
Site does not meet any of the criteria above	noints = 0		

Rating of Value | If score is: __2 = H ____1 = M ____0 = L

Record the rating on the first page

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Wetland	name	or	number	1	-
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WDFW Priority Habitats

See complete descriptions of Priority Habitats listed by WDFW, and the counties in which they can be found, in: Washington Department of Fish and Wildlife. 2008 (current year, as revised). Priority Habitat and Species List. 133 This list was updated for consistency with guidance from WDFW.

This question is independent of the land use between the wetland unit and the Priority Habitat. All vegetated wetlands are by definition a Priority Habitat but are not included in this list because they are addressed by this rating system.

Count how many of the following Priority Habitats are within 330 ft (100 m) of the wetland unit:

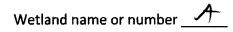
- Aspen Stands: Pure or mixed stands of aspen greater than 1 ac (0.4 ha).
- **Biodiversity Areas and Corridors**: Areas of habitat that are relatively important to various species of native fish and wildlife. This habitat automatically counts if mapped on the PHS online map within 100m of the wetland. If not mapped, a determination can be made in the field.
- **Caves:** A naturally occurring cavity, recess, void, or system of interconnected passages under the earth in soils, rock, ice, or other geological formations and is large enough to contain a human.
- Cliffs: Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation.
- Fresh Deepwater: Lands permanently flooded with freshwater, including environments where surface water is permanent and often deep, so that water, rather than air, is the principal medium within which the dominant organisms live. Substrate does not support emergent vegetation. Do not select if Instream habitat is also present, or if the entire Deepwater feature is included in the wetland unit being rated (such as a pond with a vegetated fringe).
- Herbaceous Balds: Variable size patches of grass and forbs on shallow soils over bedrock.
- Instream: The combination of physical, biological, and chemical processes and conditions that interact to provide functional life history requirements for instream fish and wildlife resources. Do not select if Fresh Deepwater habitat is also present.
- **Nearshore:** Relatively undisturbed nearshore habitats. These include Coastal Nearshore, Open Coast Nearshore, and Puget Sound Nearshore.
- Old-growth/Mature forests: Old-growth west of Cascade crest Stands of at least 2 tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) > 32 in. (81 cm) diameter at breast height (dbh) or > 200 years of age. Mature forests Stands with average diameters exceeding 21 in. (53 cm) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80-200 years old west of the Cascade crest.

¹³³ http://wdfw.wa.gov/publications/00165/wdfw00165.pdf Wetland Rating System for Western WA: 2014 Update Rating Form – Version 2, July 2023

Wetland name or number _______

- Oregon White Oak: Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak component is important. For single oaks or oak stands <0.4 ha in urban areas, <u>WDFW's Management Recommendations for Oregon White Oak</u> 134 provides more detail for determining if they are Priority Habitats
- Riparian: The area adjacent to freshwater aquatic systems with flowing or standing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other.
- Snags and Logs: Trees are considered snags if they are dead or dying and exhibit sufficient decay characteristics to enable cavity excavation/use by wildlife. Priority snags have a diameter at breast height of > 20 in. (51 cm) in western Washington and are > 6.5 ft (2 m) in height. Priority logs are > 12 in. (30 cm) in diameter at the largest end, and > 20 ft (6 m) long.
- Talus: Homogenous areas of rock rubble ranging in average size 0.5 6.5 ft (0.15 2.0 m), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.
- **Westside Prairies:** Herbaceous, non-forested plant communities that can either take the form of a dry prairie or a wet prairie.

https://wdfw.wa.gov/publications/00030/wdfw00030.pdf
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CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS

Wetland Type	Category
Check off any criteria that apply to the wetland. Circle the category when the appropriate criteria are met.	
SC 1.0. Estuarine wetlands	
Does the wetland meet the following criteria for Estuarine wetlands?	
— The dominant water regime is tidal,	
— Vegetated, and	
— With a salinity greater than 0.5 ppt Yes – Go to SC 1.1 No= Not an estuarine wetland	,
SC 1.1. Is the wetland within a National Wildlife Refuge, National Park, National Estuary Reserve, Natural Area	****
Preserve, State Park or Educational, Environmental, or Scientific Reserve designated under WAC 332-30-151?	Cat. I
Yes = Category I No - Go to SC 1.2	Cat. I
SC 1.2. Is the wetland unit at least 1 ac in size and meets at least two of the following three conditions?	
— The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing), and has less	
than 10% cover of non-native plant species. If non-native species are Spartina, see chapter 4.8 in the	Cat. I
manual.	
— At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or un-	Cat. II
mowed grassland.	
— The wetland has at least two of the following features: tidal channels, depressions with open water, or contiguous freshwater wetlands. Yes = Category I No = Category II	
contiguous resirvater wetanus. res - category i	
SC 2.0. Wetlands of High Conservation Value (WHCV)	
SC 2.1. Does the wetland overlap with any known or historical rare plant or rare & high-quality ecosystem polygons	
on the WNHP <u>Data Explorer</u> ? ¹³⁵ Yes = Category I No – Go to SC 2/2	Cat. I
SC 2.2. Does the wetland have a rare plant species, rare ecosystem (e.g., plant community), or high-quality common	
ecosystem that may qualify the site as a WHCV? Contact WNHP for resources to help determine the	
presence of these elements.]
Yes - Submit data to WA Natural Heritage Program for determination, ¹³⁶ Go to SC 2.3 No = Not a WHCV	
SC 2.3. Did WNHP review the site within 30 days and determine that it has a rare plant or ec òsystem that moots thei criteria?	
Yes = Category I No = Not a WHCV	
SC 3.0. Bogs	
Does the wetland (or any part of the unit) meet both the criteria for soils and vegetation in bogs? Use the key	,
below. If you answer YES, you will still need to rate the wetland based on its functions.	
SC 3.1. Does an area within the wetland unit have organic soil horizons, either peats or mucks, that compose 16 in.	
or more of the first 32 in. of the soil profile? Yes – Go to SC 3.3 No – Go to SC 3.2	
SC 3.2. Does an area within the wetland unit have organic soils, either peats or mucks, that are less than 16 in. deep	
over bedrock, or an impermeable hardpan such as clay or volcanic ash, or that are floating on top of a lake or pond? Yes – Go to SC 3.3 No = Not a bog	
pond? Yes – Go to SC 3.3 No = Not a bog SC 3.3. Does an area with peats or mucks have more than 70% cover of mosses at ground level, AN <u>D at least a 30</u> %	
cover of plant species listed in Table 4? Yes = Category I bog No - Go to SC 3.4	
NOTE: If you are uncertain about the extent of mosses in the understory, you may substitute that criterion by	,
measuring the pH of the water that seeps into a hole dug at least 16 in. deep. If the pH is less than 5.0 and	
the plant species in Table 4 are present, the wetland is a bog.	Cat. i
SC 3.4. Is an area with peats or mucks forested (> 30% cover) with Sitka spruce, subalpine fir, western red cedar,	
western hemlock, lodgepole pine, quaking aspen, Engelmann spruce, or western white pine, AND any of the	
species (or combination of species) listed in Table 4 provide more than 30% of the cover under the canopy?	
Yes = Category I bog No = Not a bog	N

¹³⁵ https://www.dnr.wa.gov/NHPdata
136 https://www.dnr.wa.gov/Publications/amp_nh_sighting_form.pdf
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SC 4.0. Forested Wetlands	
Does the wetland have at least 1 contiguous acre of forest that meets one of these criteria for the WA Department of Fish and Wildlife's forests as Priority Habitats? If you answer YES, you will still need to rate the wetland based on its functions.	
— Old-growth forests (west of Cascade crest): Stands of at least two tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) that are at least 200 years of age OR have a diameter at breast height (dbh) of 32 in. (81 cm) or more.	
— Mature forests (west of the Cascade Crest): Stands where the largest trees are 80- 200 years old OR the species that make up the canopy have an average diameter (dbh) exceeding 21 in. (53 cm).	
Yes = Category I No = Not a forested wetland for this section	Cat. I
SC 5.0. Wetlands in Coastal Lagoons	
Does the wetland meet all of the following criteria of a wetland in a coastal lagoon?	
— The wetland lies in a depression adjacent to marine waters that is wholly or partially separated from marine waters by sandbanks, gravel banks, shingle, or, less frequently, rocks	
— The lagoon in which the wetland is located contains ponded water that is saline or brackish (> 0.5 ppt) during most of the year in at least a portion of the lagoon (needs to be measured near the bottom)	
— The lagoon retains some of its surface water at low tide during spring tides	
Yes – Go to SC 5.1 No = Not a wetland in a coastal lagoon	Cat. I
SC 5.1. Does the wetland meet all of the following three conditions?	
— The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing), and has less than 20% cover of aggressive, opportunistic plant species (see list of species in H 1.5 in the manual).	
— At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or un-mowed grassland.	Cat. II
— The wetland is larger than $^{1}/_{10}$ ac (4350 ft ²)	}
Yes = Category I No = Category II	!
SC 6.0. Interdunal Wetlands	
Is the wetland west of the 1889 line (also called the Western Boundary of Upland Ownership or WBUO)? If you answer YES, you will still need to rate the wetland based on its habitat functions. In practical terms that means the following geographic areas:	
— Long Beach Peninsula: Lands west of SR 103	
 — Grayland-Westport: Lands west of SR 105 — Ocean Shores-Copalis: Lands west of SR 115 and SR 109 and Ocean Shores Blvd SW, including lands west of E. Oceans Shores Blvd SW. 	Cat I
Yes – Go to SC 6.1 No = Not an interdunal wetland for rating)
SC 6.1. Is the wetland 1 ac or larger and scores an 8 or 9 for the habitat functions on the form (rates H,H,H or H,H,M	Cat. II
for the three aspects of function)? Yes = Category I No – Go to SC 6.2 SC 6.2. Is the wetland 1 ac or larger, or is it in a mosaic of wetlands that is 1 ac or larger? Yes = Category II No – Go to SC 6.3	Cat. III
SC 6.3. Is the unit between 0.1 and 1 ac, or is it in a mosaic of wetlands that is between 0.1 and 1 ac? Yes = Category III No = Category IV	Cat. IV
Category of wetland based on Special Characteristics If you answered No for all types, enter "Not Applicable" on Summary Form	NA

Wetland	name	٥r	number	B
vvetianu	Hallic	O1	Hullibei	

RATING SUMMARY – Western Washington

						9	
Name of wetland (or	D#): _ W	sed bu	- υ	vetal :	<u>13</u> Da	ite of site visit: / - Z O - Z O NoDate of training3	õ
Rated by	Sull		Traine	d by Ecolo	gy?Yes_	No Date of training_	2017
HGM Class used for ra	ating De	pin	<u> </u>	Netland h	as multiple	e HGM classes?YN	
NOTE: Form is Source of b	=			•		res can be combined).	
VERALL WETLAN	D CATEG	ORY _	□ (ba	sed on fun	ctions	or special characteristics)	
1. Category of we							
	tegory I – T tegory II – 1					Score for each	
	tegory III – tegory III –					function based on three	
· · · · · · · · · · · · · · · · · · ·	tegory IV –					ratings (order of ratings is not important)	
FUNCTION	lmprovin Water Quality		drologic	Habita	it.	9 = H, H, H 8 = H, H, M 7 = H, H, L	
				propriate rai	ings	7 = H, M, M	
Site Potential	<u>н (М)</u>	L H	M (L)	H M	<u> </u>	6 = H, M, L	
Landscape Potential	H (M)	L H	(M) r	H (M)		6 = M, M, M	
Value	A) M	r (D)	M L	H (M)	L TOTA	5 = H, L, L 5 = M, M, L	
Score Based on Ratings	7		6	5	18		

2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	CATEGORY
Estuarine	I II
Wetland of High Conservation Value	I
Bog	I
Mature Forest	I
Old Growth Forest	I
Coastal Lagoon	I II
Interdunal	ти ш у
None of the above	
	1 11 111

Maps and figures required to answer questions correctly for Western Washington

<u>Depressional Wetlands</u>

Map of:	To answer questions:	Figure #
Cowardin plant classes	D 1.3, H 1.1, H 1.4	
Hydroperiods	D 1.4, H 1.2	
Location of outlet (can be added to map of hydroperiods)	D 1.1, D 4.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	D 2.2, D 5.2	
Map of the contributing basin	D 4.3, D 5.3	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	D 3.1, D 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	D 3.3	

Riverine Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	
Hydroperiods	H 1.2	
Ponded depressions	R 1.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	R 2.4	
Plant cover of trees, shrubs, and herbaceous plants	R 1.2, R 4.2	
Width of unit vs. width of stream (can be added to another figure)	R 4.1	
Map of the contributing basin	R 2.2, R 2.3, R 5.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	R 3.1	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	R 3.2, R 3.3	

Lake Fringe Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	L 1.1, L 4.1, H 1.1, H 1.4	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of area within 150 ft of the wetland (can be added to another figure)	L 2.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	L 3.1, L 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	L 3.3	

Slope Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	
Hydroperiods	H 1.2	
Plant cover of dense trees, shrubs, and herbaceous plants	S 1.3	
Plant cover of dense, rigid trees, shrubs, and herbaceous plants (can be added to figure above)	S 4.1	
Boundary of 150 ft buffer (can be added to another figure)	S 2.1, S 5.1	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	S 3.1, S 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	\$ 3.3	

HGM Classification of Wetlands in Western Washington

For questions 1-7, the criteria described must apply to the entire unit being rated.

If the hydrologic criteria listed in each question do not apply to the entire unit being rated, you probably have a unit with multiple HGM classes. In this case, identify which hydrologic criteria in questions 1-7 apply, and go to Question 8.

1.	Are the water levels in the entire unit u	sually controlled by tides except during floods?				
	NO - go to 2	YES – the wetland class is Tidal Fringe – go to 1.1				
=	1.1 Is the salinity of the water during peri	ods of annual low flow below 0.5 ppt (parts per thousand)?				
		YES – Freshwater Tidal Fringe Freshwater Tidal Fringe use the forms for Riverine wetlands. If it is ne wetland and is not scored. This method cannot be used to score				
2.	The entire wetland unit is flat, and prec surface water runoff are NOT sources o	ipitation is the only source (>90%) of water to it. Groundwater and f water to the unit.				
(NO – go to 3 If your wetland can be classified as a Fla	YES – The wetland class is Flats its wetland, use the form for Depressional wetlands.				
3.	Does the entire wetland unit meet all oThe vegetated part of the wetland is plants on the surface at any time of tAt least 30% of the open water area	s on the shores of a body of permanent open water (without any he year) at least 20 ac (8 ha) in size,				
	NO – go to 4	ES – The wetland class is Lake Fringe (Lacustrine Fringe)				
4.	 Does the entire wetland unit meet all of the following criteria? The wetland is on a slope (slope can be very gradual), The water flows through the wetland in one direction (unidirectional) and usually comes from seeps. It may flow subsurface, as sheet flow, or in a swale without distinct banks, The water leaves the wetland without being impounded. 					
	NO – go to 5	YES – The wetland class is Slope				
		hese type of wetlands except occasionally in very small and ks (depressions are usually <3 ft diameter and less than 1 ft deep).				

W	etland name or number $\overline{\mathcal{B}}$	
5.		ere it gets inundated by overbank flooding from that
(NO – go to 6 NOTE: The Riverine unit can contain depressions t	YES – The wetland class is Riverine that are filled with water when the river is not flooding
6.		sion in which water ponds, or is saturated to the surface, at outlet, if present, is higher than the interior of the wetland.
	NO – go to 7	YES – The wetland class is Depressional
7.		a with no obvious depression and no overbank flooding? a few inches. The unit seems to be maintained by high

groundwater in the area. The wetland may be ditched but has no obvious natural outlet.

NO - go to 8

YES – The wetland class is Depressional

8. Your wetland unit seems to be difficult to classify and probably contains several different HGM classes. For example, seeps at the base of a slope may grade into a riverine floodplain, or a small stream within a Depressional wetland has a zone of flooding along its sides. GO BACK AND IDENTIFY WHICH OF THE HYDROLOGIC REGIMES DESCRIBED IN QUESTIONS 1-7 APPLY TO DIFFERENT AREAS IN THE UNIT (make a rough sketch to help you decide). Use the following table to identify the appropriate class to use for the rating system if you have several HGM classes present within the wetland unit being scored.

NOTE: Use this table only if the class that is recommended in the second column represents 10% or more of the total area of the wetland unit being rated. If the area of the HGM class listed in column 2 is less than 10% of the unit; classify the wetland using the class that represents more than 90% of the total area.

HGM classes within the wetland unit being rated	HGM class to use in rating
Slope + Riverine	Riverine
Slope + Depressional	Depressional
Slope + Lake Fringe	Lake Fringe
Depressional + Riverine along stream within boundary of depression	Depressional
Depressional + Lake Fringe	Depressional
Riverine + Lake Fringe	Riverine
Salt Water Tidal Fringe and any other	Treat as
class of freshwater wetland	ESTUARINE

If you are still unable to determine which of the above criteria apply to your wetland, or if you have more than 2 HGM classes within a wetland boundary, classify the wetland as Depressional for the rating.

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DEPRESSIONAL AND FLATS WETLANDS	
Water Quality Functions - Indicators that the site functions to improve water quality	
D 1.0. Does the site have the potential to improve water quality?	ال ا
D 1.1. Characteristics of surface water outflows from the wetland:	
Wetland is a depression or flat depression (QUESTION 7 on key) with no surface water leaving it (no outlet).	
60ints = 3	P
Wetland has an intermittently flowing stream or ditch, OR highly constricted permanently flowing outlet.	
points = 2 Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing points = 1	
Wetland is a flat depression (QUESTION 7 on key), whose outlet is a permanently flowing ditch. points = 1	3
D 1.2. The soil 2 in. below the surface (or duff layer) is true clay or true organic (use NRCS definitions). Yes = 4 (No = 0)) _
	0
D 1.3. Characteristics and distribution of persistent plants (Emergent, Scrub-shrub, and/or Forested Cowardin classes):	
Wetland has persistent, ungrazed plants > 95% of area points = 5	
Wetland has persistent, ungrazed plants > ½ of area points = 3	
Wetland has persistent, ungrazed plants $\geq 1/10$ of area points = 1	
Wetland has persistent, ungrazed plants $< \frac{1}{10}$ of area	0
D 1.4. <u>Characteristics of seasonal ponding or inundation</u> :	
This is the area that is ponded for at least 2 months. See description in manual.	
Area seasonally ponded is > ½ total area of wetland points = 4)
Area seasonally ponded is ≥ ¼ total area of wetland points = 2	4
Area seasonally ponded is < 1/4 total area of wetland points = 0	,
Total for D 1 Add the points in the boxes above	7
Rating of Site Potential If score is:12-16 = H6-11 = M0-5 = L	first page
D 2.0. Does the landscape have the potential to support the water quality function of the site?	
D 2.1. Does the wetland unit receive stormwater discharges? Yes = 1 No = 0	G
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? Yes = 1 $\sqrt{0}$ = 0	0
D 2.3. Are there septic systems within 250 ft of the wetland?	l
D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1-D 2.3?	
Source Yes = 1 No = 0	-
Total for D 2 Add the points in the boxes above	١
Rating of Landscape Potential If score is:3 or 4 = H1 or 2 = M0 = L Record the rating on the	first page
D 3.0. Is the water quality improvement provided by the site valuable to society?	
D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, lake, or marine water that is on the	
303(d) list?)
D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on the 303(d) list? (es = $\frac{1}{2}$ No = 0	1
D 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality? (Answer YES if there is a TMDL in development or in effect for the basin in which the unit is found.) Yes = 2) No = 0	7
Total for D 3 Add the points in the boxes above	5
Rating of Value If score is:2-4 = H1 = M0 = L Record the rating on the	first page

DEPRESSIONAL AND FLATS WETLANDS	
Hydrologic Functions - Indicators that the site functions to reduce flooding and stream degradat	ion
D 4.0. Does the site have the potential to reduce flooding and erosion?	
D 4.1. Characteristics of surface water outflows from the wetland:	
Wetland is a depression or flat depression with no surface water leaving it (no outlet)	
Wetland has an intermittently flowing stream/ditch, OR highly constricted permanently flowing outlet points = 2	1
Wetland is a flat depression (question 7 on key), whose outlet is a permanently flowing ditch points = 1	1-1
Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing points = 0	7
D 4.2. <u>Depth of storage during wet periods:</u> Estimate the height of ponding above the bottom of the outlet. For wetlands with no outlet, measure from the surface of permanent water or if dry, the deepest part.	
Marks of ponding are 3 ft or more above the surface or bottom of outlet points = 7	
Marks of ponding between 2 ft to < 3 ft from surface or bottom of outlet points = 5	
Marks are at least 0.5 ft to < 2 ft from surface or bottom of outlet points = 3	
The wetland is a "headwater" wetland points = 3	
Wetland is flat but has small depressions on the surface that trap water points = 1	
Marks of ponding less than 0.5 ft (6 in)	0
D 4.3. <u>Contribution of the wetland to storage in the watershed</u> : Estimate the ratio of the area of upstream basin contributing surface water to the area of the wetland unit itself.	
The area of the basin is less than 10 times the area of the unit points = 5	
The area of the basin is 10 to 100 times the area of the unit points = 3 points = 3	
The area of the basin is more than 100 times the area of the unit	_
Entire wetland is in the Flats class points = 5	0
Total for D 4 Add the points in the boxes above	4
	Jirst page
D 5.0. Does the landscape have the potential to support hydrologic functions of the site?	<u> </u>
D 5.1. Does the wetland receive stormwater discharges? Yes = 1 No = 0	0
D 5.2. Is >10% of the area within 150 ft of the wetland in land uses that generate excess runoff? Yes = 1 (No = 0)	G
D 5.3. Is more than 25% of the contributing basin of the wetland covered with intensive human land uses (residential at	1
>1 residence/ac, urban, commercial, agriculture, etc.)? Yes = 1 No = 0	
Total for D 5 Add the points in the boxes above	١
Rating of Landscape Potential If score is:3 = H1 or 2 = M0 = L Record the rating on the	first page
D 6.0. Are the hydrologic functions provided by the site valuable to society?	
D 6.1. Is the unit in a landscape that has flooding problems? Choose the description that best matches conditions	
around the wetland unit being rated. Do not add points. Choose the highest score if more than one condition is	
<u>met</u> .	
The wetland captures surface water that would otherwise flow downgradient into areas where flooding has	
damaged human or natural resources (e.g., houses or salmon redds):	
Flooding occurs in a sub-basin that is immediately downgradient of unit.	
• Surface flooding problems are in a sub-basin farther downgradient. points = 1	
• Flooding from groundwater is an issue in the sub-basin. points = 1	
The existing or potential outflow from the wetland is so constrained by human or natural conditions that the	
water stored by the wetland cannot reach areas that flood. Explain why points = 0	2
• There are no problems with flooding downstream of the wetland. points = 0	
D 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan?	c
Yes = 2 N o 8	
Total for D 6 Add the points in the boxes above	7
Rating of Value If score is:2-4 = H1 = M0 = L Record the rating on the	first page

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These questions apply to wetlands of all HGM classes. HABITAT FUNCTIONS - Indicators that site functions to provide important habitat	
H 1.0. Does the site have the potential to provide habitat?	
H 1.1. Structure of plant community: Indicators are Cowardin classes and strata within the Forested class. Check the Cowardin plant classes in the wetland. Up to 10 patches may be combined for each class to meet the threshold of ¼ ac if the unit is at least 2.5 ac, or more than 10% of the unit if it is smaller than 2.5 ac. Aquatic bed 4 structures or more: points = 4	
Emergent 3 structures: points = 2	
Scrub-shrub (areas where shrubs have > 30% cover) 2 structures: points = 1Forested (areas where trees have > 30% cover) 1 structure: points = 0	
If the unit has a Forested class, check if:The Forested class has 3 out of 5 strata (canopy, sub-canopy, shrubs, herbaceous, moss/groundcover) that each cover 20% within the Forested polygon	0
H 1.2. Hydroperiods	
Check the types of water regimes (hydroperiods) present within the wetland. The water regime has to cover more than 10% of the wetland if the unit is < 2.5 ac, or $\%$ ac if the unit is at least 2.5 ac to count (see text for descriptions of hydroperiods).	
Permanently flooded or inundated 4 or more types present: points = 3	
Seasonally flooded or inundated 3 types present: points = 2	
Occasionally flooded or inundated 2 types present: points £	
Saturated only 1 type present: points = 0	
Permanently flowing stream or river in, or adjacent to, the wetland	
Intermittently or seasonally flowing stream in, or adjacent to, the wetland	
Lake Fringe wetland 2 points	1 ,
Freshwater tidal wetland 2 points	1 1
H 1.3. Richness of plant species	
Count the number of plant species in the wetland that cover at least 10 ft ² .	
Different patches of the same species can be combined to meet the size threshold and you do not have to	
name the species. Do not include Eurasian milfoil, reed canarygrass, purple loosestrife, Canada thistle If you counted: > 19 species points = 2	
< 5 species points = 0	5
H 1.4. Interspersion of habitats	
Decide from the diagrams below whether interspersion among Cowardin plants classes (described in H 1.1), or the classes and unvegetated areas (can include open water or mudflats) is high, moderate, low, or none. If you have four or more plant classes or three classes and open water, the rating is always high.	
None = 0 points Low = 1 point Moderate = 2 points	
All three diagrams in this row are High = 3 points	9

H 1.5. Special habitat features:	
Check the habitat features that are present in the wetland. The number of checks is the number of points.	
Large, downed, woody debris within the wetland (> 4 in. diameter and 6 ft long).	
Standing snags (dbh > 4 in.) within the wetland	
Undercut banks are present for at least 6.6 ft (2 m) and/or overhanging plants extend at least 3.3 ft (1 m)	
over open water or a stream (or ditch) in, or contiguous with the wetland, for at least 33 ft (10 m)	
Stable steep banks of fine material that might be used by beaver or muskrat for denning (> 30 degree	
slope) OR signs of recent beaver activity are present (cut shrubs or trees that have not yet weathered	
where wood is exposed)	
At least ¼ ac of thin-stemmed persistent plants or woody branches are present in areas that are	
permanently or seasonally inundated (structures for egg-laying by amphibians)	
Invasive plants cover less than 25% of the wetland area in every stratum of plants (see H 1.1 above for the	_
list of strata and H 1.5 in the manual for the list of aggressive plant species)	0
Total for H 1 Add the points in the boxes above)
Rating of Site Potential If score is:15-18 = H7-14 = M0-6 = L Record the rating on	the first page
H 2.0. Does the landscape have the potential to support the habitat functions of the site?	
H 2.1. Accessible habitat (include only habitat polygons accessible from the wetland.	
Calculate: % relatively undisturbed habitat \(\frac{\sigma}{2} + \frac{1}{3} \) # (% moderate and low intensity land uses)/2] \(\frac{\sigma}{2} = \sigma^2 \) %	
Total accessible habitat is:	
44	
$> \frac{1}{3}$ (33.3%) of 1 km Polygon points = 3	
20-33% of 1 km Polygon points = 2	
10-19% of 1 km Polygon	1
< 10% of 1 km Polygon points = 0	1
H 2.2. Total habitat in 1 km Polygon around the wetland. **Calculate: % relatively undisturbed habitat 72+1(% moderate and low intensity land uses)/21.6 = 7.6 %	
[[//o/mode/ate and for interiorly failed dates]]	
Total habitat > 50% of Polygon points = 3	
Total habitat 10-50% and in 1-3 patches Points = 2	
Total habitat 10-50% and > 3 patches Points = 1	-
Total habitat < 10% of 1 km Polygon points = 0	
H 2.3. Land use intensity in 1 km Polygon:	
> 50% of 1 km Polygon is high intensity land use points = (-2)	C
≤ 50% of 1 km Polygon is high intensity points = 0)
Total for H 2 Add the points in the boxes above	
Rating of Landscape Potential If score is:4-6 = H<1 = L Record the rating on the	ne first page
H 3.0. Is the habitat provided by the site valuable to society?	
H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies? Choose only the highest score	
that applies to the wetland being rated.	
Site meets ANY of the following criteria: points = 2	
It has 3 or more Priority Habitats within 100 m (see next page)	
 It provides habitat for Threatened or Endangered species (any plant or animal on the state or federal lists) 	
It is mapped as a location for an individual WDFW Priority Species	
— It is a Wetland of High Conservation Value as determined by the Department of Natural Resources data	
— It has been categorized as an important habitat site in a local or regional comprehensive plan, in a	
Shoreline Master Plan, or in a watershed plan	
Site has 1 or 2 Priority Habitats (listed on next page) within 100 m	
Site does not meet any of the criteria above points = 0	
Rating of Value If score is:2 = H1 = M0 = L Record the rating on	the first page
Motland Pating System for Mantage 18/A. 2015 115	
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Motland	namo	or number	
vvenano	name	or number	

WDFW Priority Habitats

See complete descriptions of Priority Habitats listed by WDFW, and the counties in which they can be found, in: Washington Department of Fish and Wildlife. 2008 (current year, as revised). Priority Habitat and Species List. 133 This list was updated for consistency with guidance from WDFW.

This question is independent of the land use between the wetland unit and the Priority Habitat. All vegetated wetlands are by definition a Priority Habitat but are not included in this list because they are addressed by this rating system.

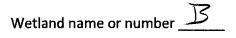
Count how many of the following Priority Habitats are within 330 ft (100 m) of the wetland unit:

- Aspen Stands: Pure or mixed stands of aspen greater than 1 ac (0.4 ha).
- **Biodiversity Areas and Corridors**: Areas of habitat that are relatively important to various species of native fish and wildlife. This habitat automatically counts if mapped on the PHS online map within 100m of the wetland. If not mapped, a determination can be made in the field.
- Caves: A naturally occurring cavity, recess, void, or system of interconnected passages under the earth in soils, rock, ice, or other geological formations and is large enough to contain a human.
- Cliffs: Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation.
- Fresh Deepwater: Lands permanently flooded with freshwater, including environments where surface water is permanent and often deep, so that water, rather than air, is the principal medium within which the dominant organisms live. Substrate does not support emergent vegetation. Do not select if Instream habitat is also present, or if the entire Deepwater feature is included in the wetland unit being rated (such as a pond with a vegetated fringe).
- --- Herbaceous Balds: Variable size patches of grass and forbs on shallow soils over bedrock.
- **Instream:** The combination of physical, biological, and chemical processes and conditions that interact to provide functional life history requirements for instream fish and wildlife resources. Do not select if Fresh Deepwater habitat is also present.
- **Nearshore:** Relatively undisturbed nearshore habitats. These include Coastal Nearshore, Open Coast Nearshore, and Puget Sound Nearshore.
- Old-growth/Mature forests: Old-growth west of Cascade crest Stands of at least 2 tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) > 32 in. (81 cm) diameter at breast height (dbh) or > 200 years of age. Mature forests Stands with average diameters exceeding 21 in. (53 cm) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80-200 years old west of the Cascade crest.

http://wdfw.wa.gov/publications/00165/wdfw00165.pdf
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- Oregon White Oak: Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak component is important. For single oaks or oak stands <0.4 ha in urban areas, <u>WDFW's</u> <u>Management Recommendations for Oregon White Oak</u>¹³⁴ provides more detail for determining if they are Priority Habitats
- Riparian: The area adjacent to freshwater aquatic systems with flowing or standing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other.
- Snags and Logs: Trees are considered snags if they are dead or dying and exhibit sufficient decay characteristics to enable cavity excavation/use by wildlife. Priority snags have a diameter at breast height of > 20 in. (51 cm) in western Washington and are > 6.5 ft (2 m) in height. Priority logs are > 12 in. (30 cm) in diameter at the largest end, and > 20 ft (6 m) long.
- **Talus:** Homogenous areas of rock rubble ranging in average size 0.5 6.5 ft (0.15 2.0 m), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.
- **Westside Prairies:** Herbaceous, non-forested plant communities that can either take the form of a dry prairie or a wet prairie.

https://wdfw.wa.gov/publications/00030/wdfw00030.pdf
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CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS

Wetland Type	l			Category
Check off any cri	iteria that apply to the wetland. Circle	the category when the appropri	ate criteria are met.	
SC 1.0. Estuarii				
Does the	wetland meet the following criteria i	for Estuarine wetlands?		
	ominant water regime is tidal,			
_	tated, and			
— With	a salinity greater than 0.5 ppt	Yes – Go to SC 1.1	Not an estuarine wetland	P)
	tland within a National Wildlife Refug	-		
Preserve	, State Park or Educational, Environm	_		l Cati
	***************************************		tegory I No – Go to SC 1.2	2
	tland unit at least 1 ac in size and me	-		
	wetland is relatively undisturbed (has 10% cover of non-native plant specie ual.			Cat. I
— At le mow	east ¾ of the landward edge of the we wed grassland.			Cat. II
	wetland has at least two of the follow iguous freshwater wetlands.		ressions with open water, or ategory I No = Category I	1
	ds of High Conservation Value (W			
SC 2.1. Does the	wetland overlap with any known or h	historical rare plant or rare & hig	h-quality ecosystem polygons	
	/NHP <u>Data Explorer</u> ? ¹³⁵		tegory I No - Go to SC 2.2	
ecosyste	wetland have a rare plant species, ra m that may qualify the site as a WHC\ of these elements.			
	mit data to WA Natural Heritage Prop P review the site within 30 days and o			ir
· · · · · · · · · · · · · · · · · · ·		Yes = Ca	tegory I No = Not a WHC	,
SC 3.0. Bogs				
below. If	wetland (or any part of the unit) mee you answer YES, you will still need to	o rate the wetland based on its j	unctions.	עי
SC 3.1. Does an a	area within the wetland unit have org		,	
	of the first 32 in. of the soil profile? area within the wetland unit have org	Yes – Go t anic soils, either neats or mucks	that are less than 16 in door	
over bedi pond?	rock, or an impermeable hardpan suc	th as clay or volcanic ash, or that Yes – Go	are floating on top of a lake o	r
	rea with peats or mucks have more t			`
cover of p	plant species listed in Table 4?	Yes = Catego	ry I bog No - Go to SC 3.4	
NOTE: If	you are uncertain about the extent of	f mosses in the understory, you r	nay substitute that criterion b	У
measurin	g the pH of the water that seeps into	a hole dug at least 16 in. deep. I	f the pH is less than 5.0 and	
	species in Table 4 are present, the w		tu a file a de la companya de la co	Cat. I
	with peats or mucks forested (> 30% nemlock, lodgepole pine, quaking asp			
	or combination of species) listed in Ta			
	F = === ,= =		gory I bog No = Not a bog	1

https://www.dnr.wa.gov/NHPdata
 https://www.dnr.wa.gov/Publications/amp_nh_sighting_form.pdf
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SC 4.0. Forested Wetlands	
Does the wetland have at least 1 contiguous acre of forest that meets one of these criteria for the WA Department of Fish and Wildlife's forests as Priority Habitats? If you answer YES, you will still need to rate the wetland based on its functions. — Old-growth forests (west of Cascade crest): Stands of at least two tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) that are at least 200 years of age OR have a diameter at breast height (dbh) of 32 in. (81 cm) or more.	
— Mature forests (west of the Cascade Crest): Stands where the largest trees are 80- 200 years old OR the species that make up the canopy have an average diameter (dbh) exceeding 21 in. (53 cm).	
Yes = Category I No = Not a forested wetland for this section	Cat. I
SC 5.0. Wetlands in Coastal Lagoons	
Does the wetland meet all of the following criteria of a wetland in a coastal lagoon?	
— The wetland lies in a depression adjacent to marine waters that is wholly or partially separated from marine waters by sandbanks, gravel banks, shingle, or, less frequently, rocks	
— The lagoon in which the wetland is located contains ponded water that is saline or brackish (> 0.5 ppt) during most of the year in at least a portion of the lagoon (needs to be measured near the bottom)	
— The lagoon retains some of its surface water at low tide during spring tides	
Yes – Go to SC 5.1 No = Not a wetland in a coastal lagoon	Cat. I
SC 5.1. Does the wetland meet all of the following three conditions?	
— The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing), and has less than 20% cover of aggressive, opportunistic plant species (see list of species in H 1.5 in the manual).	
— At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or un-mowed grassland.	
— The wetland is larger than $^{1}/_{10}$ ac (4350 ft ²)	
Yes = Category I No = Category II	
Is the wetland west of the 1889 line (also called the Western Boundary of Upland Ownership or WBUO)? If you answer YES, you will still need to rate the wetland based on its habitat functions. In practical terms that means the following geographic areas: — Long Beach Peninsula: Lands west of SR 103 — Grayland-Westport: Lands west of SR 105	Cat I
Ocean Shores-Copalis: Lands west of SR 115 and SR 109 and Ocean Shores Blvd SW, including lands west of E. Oceans Shores Blvd SW.	
Yes – Go to SC 6.1 No = Not an interdunal wetland for rating)
GC 6.1. Is the wetland 1 ac or larger and scores an 8 or 9 for the habitat functions on the form (rates H,H,H or H,H,M for the three aspects of function)? Yes = Category I No – Go to SC 6.2	Cat. II
SC 6.2. Is the wetland 1 ac or larger, or is it in a mosaic of wetlands that is 1 ac or larger? Yes = Category II No – Go to SC 6.3	Cat. III
C 6.3. Is the unit between 0.1 and 1 ac, or is it in a mosaic of wetlands that is between 0.1 and 1 ac? Yes = Category III No = Category IV	Cat. IV
Category of wetland based on Special Characteristics	MA
If you answered No for all types, enter "Not Applicable" on Summary Form	100/

