

April 7, 2025

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14065162nd Avenue NE, Wetland Delineation Report

The Watershed Company Reference Number: 220234

Summary

This report has been prepared to present the findings of a wetland delineation study located at 14065 162nd Avenue NE in unincorporated King County near Woodinville (parcel #3401700251). In addition to the information and findings presented in this report, the following documents are enclosed:

- Site Photos
- Delineation Sketch
- Wetland Determination Data Forms
- Wetland Rating Forms and Figures

One wetland (Wetland A) was delineated in the center of the subject property. It is a Category III wetland with five habitat points (Table 1). King County requires a standard buffer of 60 feet for Wetland A and a building setback of 15 feet.

Table 1. Summary of wetlands, streams, and required buffers.

Feature Name	Category/Type	Habitat Score	Buffer (ft)
Wetland A	Category III	5	60

Study Area

The study area is defined as parcel #3401700251 and is approximately 1.5 acres in size (Figure 1). Adjacent public or private property within 225 feet was screened from the edge of parcel or nearest publicly accessible land; no private property was accessed without permission. It is situated within Section 23 of Township 26 North, Range 05 East of the Public Land Survey System.



Figure 1. Vicinity and study area map.

Methods

Field investigations for the delineation study were conducted on March 7, 2022 by The Watershed Company ecologist Sam Payne, PWS.

The study area was evaluated for wetlands using methodology from the *Corps of Engineers* Wetland Delineation Manual (Environmental Laboratory 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region Version 2.0 (U.S. Army Corps of Engineers 2010). Presence or absence of wetlands was determined on the basis of an examination of vegetation, soils and hydrology. These parameters were sampled at several locations along the wetland boundary to determine the wetland edge. Wetlands were classified using the Department of Ecology's 2014 rating system (Hruby 2014).

The on-site wetland boundary was marked with pink- and black-striped flagging. Wetland delineation flag locations were collected in the field using a Trimble GEOXH handheld unit. That data was used to generate a wetland delineation map.

Characterization of climatic conditions for precipitation in the Wetland Determination Data Forms were determined using the WETS table methodology (USDA, NRCS 2015). The "Seattle Tacoma Intl AP" station from 1991-2020 was used as a source for precipitation data (http://agacis.rcc-acis.org/). The WETS table methodology uses climate data from the three months prior to the site visit month to determine if normal conditions are present in the study area region.

The study area was evaluated for streams based on the presence or absence of an ordinary high water mark (OHWM) as defined by Section 404 of the Clean Water Act, the Washington Administrative Code (WAC) 220-660-030, and the Revised Code of Washington (RCW) 90.58.030 and guidance documents including *Determining the Ordinary High Water Mark for Shoreline Management Act Compliance in Washington State* (Anderson 2016) and *A Guide to Ordinate High Water Mark (OHWM) Delineation for Non-Perennial Streams in the Western Mountains, Valleys, and Coast Region of the United States* (Mersel 2016).

Public-domain information on the subject properties was reviewed for this reconnaissance study. Resources and review findings are presented in Table 2 of the "Environmental Setting" section of this letter.

Environmental Setting

The study area is within in the Bear Creek-Sammamish River sub-basin (HUC 171100120304) of the Cedar-Sammamish Water Resource Inventory Area (WRIA 8). It is located in the Hollywood neighborhood near Woodinville, just east of the Sammamish River valley. The site is located along a gently sloping valley that faces downhill to the south.

The subject property is approximately 1.5 acres in size and is developed with a single-family residence and associated infrastructure and out-structures. The property is primarily landscaped as lawn with the some interspersed trees and shrubby vegetation.

Reviewed public-domain information for the site is summarized below (Table 2).

Table 2. Summary of online mapping and inventory resources.

Resource	Summary
USDA NRCS: Web Soil Survey	Alderwood gravelly sandy loam
USFWS: NWI Wetland Mapper	No wetlands or streams
WDFW: PHS on the Web	No priority habitats or species
WDFW: SalmonScape	No streams
WA-DNR: Forest Practices Activity Mapping Tool	No wetlands or streams
King County iMap	No wetlands or streams
WETS Climatic Condition	Wetter than normal

Findings

Wetlands

One wetland (Wetland A) was delineated and flagged in the study area (Table 3). Wetland A originates upgradient of the study area where surface water appears to be expressed through a groundwater seep. Two impoundments were observed (one of timber and one of yard debris), creating small depressions that are cumulatively estimated to be less than 10% of the wetland area. Soils on the property are not typical of wetland conditions, exhibiting black or very dark brown soils near the surface and high chroma strong brown soils (between 10YR 3/3 and 10YR 3/4) starting at around 10 inches, suggesting problematic soils conditions. However, surface water (around 1-foot), water table (to surface), saturation, and flowing water from groundwater seeps well into the growing season are indicative of an aquic moisture regime, thus soils are hydric. There is evidence that hydrology is sustained including a sparsely vegetated concave surface and sorted sediments in areas were surface water flows through herbaceous vegetation. The upgradient and downgradient extent of Wetland A has been estimated based on visual estimates and aerial photographs. Water from this wetland system was observed flowing downgradient where it intersects with 162nd Ave NE, which suggests that the wetlands are likely continuous through the valley center and do not entirely infiltrate. A review of historic

orthophotos is suggestive of a wetland signature, with visible differentiation between conditions in the wetland and adjacent vegetation. This occurs where wet soils support different plant species which stay greener into the dry season.

Non-Wetland Conditions

Vegetation outside of Wetland A is primarily lawn with interspersed trees and shrubs. Other plants which were relatively abundant on the property include Douglas-fir, blue spruce, English hawthorn, dandelion, cat's ear, dead nettle, and dovefoot geranium. This assemblage is a non-hydrophytic.

Soils typically exhibit two layers that are black (10YR 2/1) or very dark brown (10YR 2/2) near the surface, and strong brown soils (10YR 4/6) starting at a depth of approximately ten inches. These are ubiquitous throughout the site and are not hydric. Soils appear to be well drained with no surface water, groundwater, or saturation observed in non-wetland data points.

Table 3. Wetland A assessment summary.

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WETLAND A - Assessment Summary

Location: Center of parcel

WRIA / Sub-basin: WRIA 8, HUC 171100120304



2014 Western WA Ecology Rating:	Category III
Buffer Width and Buffer Setback:	60 Feet
Wetland Size:	Approx. 0.5-acre
Cowardin Classification(s):	Palustrine emergent
HGM Classification(s):	Slope
Wetland Data Sheet(s):	DP-1, DP-3
Upland Data Sheet (s):	DP-2, DP-4
Flag Color:	Pink and black
Flag Numbers:	A-1 through A-18

	Tree stratum:	Pacific willow, English hawthorn
Vegetation	Shrub stratum:	Black twinberry
	Herb stratum:	Grass, reed canarygrass, creeping buttercup
C - !! -	Soil survey:	Alderwood gravelly sandy loam
Soils	Field data:	Aquic moisture regime, soils did not meet field indicators for hydric soils
	Source:	Groundwater seeps, precipitation
Hydrology	Field data:	Surface water, high water table, saturation

Wetland Functions

		mprovin ater Qua		F	Hydrologi	ic		Habitat M <u>L</u>		
Site Potential	Н	М	<u>L</u>	Н	М	<u>L</u>	Н	М	<u>L</u>	
Landscape Potential	Н	M	L	Н	M	L	Н	M	L	
Value	<u>H</u>	М	L	<u>H</u>	М	L	Н	<u>M</u>	L	TOTAL
Score Based on Ratings		6			6			5		17

Description and Comments

See description above.

Streams

No streams were identified within the study area. No bed and bank characteristics, scour, sorted sediments, drainage patterns or other OHWM indicators were observed.

Local Regulations

Wetlands in King County are regulated according to King County Code (KCC) 21A.24 – Critical Areas. Wetlands are rated according to the 2014 Washington State Wetland Rating System for Western Washington in which a wetland is assigned a category of I-IV, and a habitat score from one through nine. Buffers in King County are determined according to the wetland category, habitat score, and intensity of the proposed land use. Residential land use outside the urban growth area is considered a moderate land use intensity. The wetland was rated as Category III with a habitat score of 5 points, which requires a standard buffer of 60 feet for moderate land use intensity (KCC 21A.24.325.A).

Buffer averaging is allowed in King County up to 25% of the buffer width, a maximum reduction of 15 feet for Wetland A (KCC 21A.24.325.B.1). Buffer averaging must provide equivalent or greater function and maintain the same total area of the standard buffer. The Code states that construction of on-site sewage disposal (septic) is an allowed use if "there is no alternative location with less adverse impact on the critical area and buffer and clearing is minimized to the maximum extent practical" (KCC 21A.24.045.D.63)

State and Federal Regulations

Federal Agencies

Most wetlands and streams are regulated by the Corps under Section 404 of the Clean Water Act. Any proposed filling or other direct impacts to Waters of the U.S., including wetlands (except isolated wetlands), would require notification and permits from the Corps. Wetland A is not isolated. Unavoidable impacts to jurisdictional wetlands are typically required to be compensated through implementation of an approved mitigation plan. If activities requiring a Corps permits are proposed, a Joint Aquatic Resource Permit Application (JARPA) could be submitted to obtain authorization.

Federally permitted actions that could affect endangered species may also require a biological assessment study and consultation with the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service. Compliance with the Endangered Species Act must be demonstrated for activities within jurisdictional wetlands and the 100-year floodplain. Application for Corps permits may also require an individual 401 Water Quality Certification and Coastal Zone

Management Consistency determination from Ecology and a cultural resource study in accordance with Section 106 of the National Historic Preservation Act.

Washington Department of Ecology (Ecology)

Similar to the Corps, Ecology, under Section 401 of the Clean Water Act, is charged with reviewing, conditioning, and approving or denying certain federally permitted actions that result in discharges to state waters. However, Ecology review under the Clean Water Act would only become necessary if a Section 404 permit from the Corps was issued. However, Ecology also regulates wetlands, including isolated wetlands, under the Washington Water Pollution Control Act, but only if direct wetland impacts are proposed. Therefore, if filling activities are avoided, authorization from Ecology would not be needed.

If filling is proposed, a JARPA may be also be submitted to Ecology in order to obtain a Section 401 Water Quality Certification and Coastal Zone Management Consistency Determination. Ecology permits are either issued concurrently with the Corps permit or within 90 days following the Corps permit.

In general, neither the Corps nor Ecology regulates wetland and stream buffers, unless direct impacts are proposed. When direct impacts are proposed, mitigated wetlands and streams may be required to employ buffers based on Corps and Ecology joint regulatory guidance.

Disclaimer

The information contained in this letter is based on the application of technical guidelines currently accepted as the best available science and in conjunction with the manuals and criteria referenced above. All discussions, conclusions and recommendations reflect the best professional judgment of the author(s) and are based upon information available at the time the study was conducted. All work was completed within the constraints of budget, scope, and timing. The findings of this report are subject to verification and agreement by the appropriate local, state and federal regulatory authorities. No other warranty, expressed or implied, is made.

Please call if you have any questions or if we can provide you with any additional information.

Sincerely,

Sam Payne, Ecologist

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References

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- Environmental Laboratory. 1987. "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
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- U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS). 2015.
 National Engineering Handbook, Part 650 Engineering Field Handbook, Chapter 19
 Hydrology Tools for Wetland Identification and Analysis. ed. R. A. Weber. 210-VI-NEH,
 Amend. 75. Washington, DC.

04/05/2022

EXISTING CONDITIONS



VICINITY MAP

15929 V

DELINEATED WETLAND BOUNDARY APPROXIMATE WETLAND BOUNDARY

PROJECT LOCATION -

— — 60-FT WETLAND BUFFER

—— – 15-FT BUILDING SETBACK LINE — — PARCEL BOUNDARIES

DATA POINT

WETLAND DELINEATED BY THE WATERSHED COMPANY ON MARCH 7TH, 2022. SEE WETLAND DELINEATION REPORT BY THE WATERSHED COMPANY, DATED APRIL 5TH, 2022.

GPS DATA DISPLAYED ON THIS MAP WAS COLLECTED IN THE FIELD USING A TRIMBLE GEOXH HAND HELD UNIT. THE DATA WAS DIFFERENTIALLY CORRECTED USING TRIMBLE PATHFINDER OFFICE SOFTWARE TO FURTHER INCREASE POSITION ACCURACY. GPS DATA IS BELIEVED RELIABLE FOR GENERAL PLANNING AND MOST REGULATORY PURPOSES. HOWEVER, ACCURACY IS VARIABLE AND SHOULD NOT BE CONSIDERED EQUIVALENT TO A PROFESSIONAL LAND SURVEY. NO WARRANTY IS EXPRESSED OR IMPLIED.

Site Photos



Photo 1. Back yard of property, Wetland A in center of depression.



Photo 2. Gently sloping valley with wetland in center (facing southwest).



Photo 3. Surface water flowing through vegetation, near DP-3.



Photo 4. Backyard view toward the existing house.



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

DP - 1

Project/Site: 14065 162nd Avenue NE		City/County: _ Ł	King County Sam	pling date: <u>3/7/22</u>	<u> </u>
Applicant/Owner: Kellin Homes			State: WA Sa	ampling Point: DP	-1
Investigator(s): S. Payne		Section, Township,	Range: S23, T26N, R05E		
Landform (hillslope, terrace, etc): Depression			re, convex, none): Concave	Slope (%):	3
Subregion (LRR): A Lat: -		Long: -	Datum:		
Soil Map Unit Name: Alderwood gravelly sandy		·	/I classification: None		
Are climatic / hydrologic conditions on the site typic			·		
Are Vegetation □, Soil □, or Hydrology □ significa	-		cumstances" present on the site	e? ⊠ Yes □ No	
Are Vegetation □, Soil □, or Hydrology □ naturall	-		ain any answers in Remarks.)		
SUMMARY OF FINDINGS — Attach site m	nap showing sam			es, etc.	
Hydrophytic Vegetation Present? Yes	⊠ No □				
Hydric Soils Present? Yes	⊠ No □	Is the Samp within a We		⊠ No □	
Wetland Hydrology Present? Yes	⊠ No □		Juana .		
VEGETATION – Use scientific names of pla	ants.				
<u>Tree Stratum</u> (Plot size: 5-m diameter) 1.	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test workshee Number of Dominant Species that are OBL, FACW, or FAC	s 3	(A)
2			Total Number of Dominant Species Across all Strata:	4	(B)
4.		= Total Cover	Percent of Dominant Species that are OBL, FACW, or FAC		(A/B)
Sapling/Shrub Stratum (Plot size: 3-m diameter)			Prevalence Index workshee	et:	
Lonicera involucrata Sambucus racemosa	20 10	Y FAC Y FACU	Total % Cover of: OBL species	Multiply by: x 1 =	
3		1 17.00	FACW species	x 2 =	_
4.			FAC species	x 3 =	_
5	30	= Total Cover	FACU species UPL species	_ x 4 = x 5 =	_
Herb Stratum (Plot size: 1-m diameter)		- Total Cover	Column Totals:	_ (A)	(B)
Ranuculus repens Phalarus arundinacea	25 10	Y FAC Y FACW	Prevalence Index = B/A =		
3		1 TAGW	Hydrophytic Vegetatio	n Indicators:	
4			☐ 1 – Rapid Test for Hydro		
5. 6.			 □ 2 – Dominance Test is > □ 3 – Prevalence Index is		
7.			4 - Morphological Adapt		
8. 9.			data in Remarks or d □ 5 – Wetland Non-Vascul)
10.			☐ Problematic Hydrophytic		in)
11			¹ Indicators of hydric soil and present, unless disturbed or		nust be
Woody Vine Stratum (Plot size: 3-m diameter)	35	= Total Cover	,	<u>Jobicinatic.</u>	
1. 2.			Hydrophytic γ _e	es 🛛 No 🗆	1
	0	= Total Cover	Present?		•
% Bare Ground in Herb Stratum: 65					
Remarks:					

SOIL Sampling Point: DP-1

nches)	Matrix Color (moist)	%	Color (mois	t) %	Type	1 Loc	2	Texture	R	emarks
0-6	10YR 2/1	100	00.0. (0.0	,, ,,	. , , , ,			Sandy loam		<u> </u>
6-10	10YR 3/2	70						Sandy Ioam	Mix	ed matrix
	10YR 2/1 10YR 3/3	30 60						•		
10-16	10YR 3/2	40						Sandy loam	Mix	ed matrix
vpo: C-C	Concentration, D=D	onlotion P	M-Poducod M	latrix CS-C	overed or Coste	d Sand Grains	21 00:	PL=Pore Lining,	M_Matrix	
	I Indicators: (App					d Sand Grains.		tors for Proble		
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	ted Below Dark Sui			pleted Matrix			31 11			
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-	Gleyed Matrix (S4			dox Depress				sturbed or proble		rosont, un
	Layer (if present				, ,					
	Layer (ii present					Hydric soil		Vac 5		
Type:	-					Hydric soil present?		Yes 2	⊠ No	
Type: Depth	(inches):		aquic moisture	regime evid	enced by persis					
Type:	(inches):		aquic moisture	regime evid	enced by persis	present?				
Type: Depth	(inches): Problematic wetl		aquic moisture	regime evid	enced by persis	present?				
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DROLO Surface High V Satura Water Sedim Drift D Algal N Iron D Surface Inunda	(inches): Problematic wetlesses wetlesses (Marks (and soils, a	ired: check all	that apply) Water-Staine 48) (B9) Salt Crust (B' Aquatic Inver- Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron F Stunted or St	d Leaves (excelument) tebrates (B13) lifide Odor (C1) cospheres along Reduced Iron (C Reduction in Tille ressed Plants (E	present? tent moisture for a pt MLRA 1, 2, 4A Living Roots (C3) 4) ed Soils (C6)	Seco	mdary Indicators Water-Stained 2, 4A & 4B) Drainage Patte Dry-Season Water-Stained Saturation Visit Geomorphic Por Shallow Aquita FAC-Neutral Tor Raised Ant Mo	e growing s (2 or more Leaves (B erns (B10) fater Table ble on Aeria osition (D2 ard (D3) est (D5) bunds (D6)	e required) 9) (MLRA (C2) al Imagery)
DROLO Surfac High V Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Spars	Problematic wetlength of the problematic wetlength of the problematic wetlength of the problematic wetlength of the problematic water (A1) Vater Table (A2) attion (A3) Marks (B1) And the proposits (B2) And the proposits (B3) Mat or Crust (B4) And the problematic wetlength of the problematic water (B4) And the problematic wetlength of the problematic water (B4) And the problematic wetlength of the problematic water (B4) And the problematic wetlength of the problematic water (B4) And the problematic wetlength of the problematic wetletch of the problematic wet	and soils, a	ired: check all	that apply) Water-Staine 48) (B9) Salt Crust (B' Aquatic Inver- Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron F Stunted or St	d Leaves (excelument) tebrates (B13) lifide Odor (C1) cospheres along Reduced Iron (C Reduction in Tille ressed Plants (E	present? tent moisture for a pt MLRA 1, 2, 4A Living Roots (C3) 4) ed Soils (C6)	Seco	mdary Indicators Water-Stained 2, 4A & 4B) Drainage Patte Dry-Season Water-Stained Saturation Visit Geomorphic Por Shallow Aquita FAC-Neutral Tor Raised Ant Mo	e growing s (2 or more Leaves (B erns (B10) fater Table ble on Aeria osition (D2 ard (D3) est (D5) bunds (D6)	e required) 9) (MLRA (C2) al Imagery)
Type: Depth Pemarks: DROLC etland H imary Inc Surfac High V Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Sparse	Problematic weth problematic weth problematic weth problematic weth problematic weth problematic water (A1) Vater Table (A2) problematic (B3) Marks (B1) Problematic weth problematic (B3) Marks (B1) Problematic (B4) Problem	and soils, a	ired: check all	that apply) Water-Staine 48) (B9) Salt Crust (B' Aquatic Inver- Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron F Stunted or St	d Leaves (excelument) tebrates (B13) lifide Odor (C1) cospheres along Reduced Iron (C Reduction in Tille ressed Plants (E	present? tent moisture for a pt MLRA 1, 2, 4A Living Roots (C3) 4) ed Soils (C6) pt) (LRR A)	Seco	mdary Indicators Water-Stained 2, 4A & 4B) Drainage Patte Dry-Season Water-Stauration Visite Geomorphic Por Shallow Aquita FAC-Neutral Tor Raised Ant Mo Frost-Heave Ho	e growing s (2 or more Leaves (B erns (B10) fater Table ble on Aeria osition (D2 ard (D3) est (D5) bunds (D6)	e required) 9) (MLRA (C2) al Imagery)
Type: Depth emarks: DROLC etland H imary Inc Surface High V Satura Water Sedim Drift D Algal N Iron D Surface Inunda Sparse eld Obse	Problematic wetlength of the problematic wetlength of the problematic wetlength of the problematic wetlength of the problematic water (A1) Vater Table (A2) Ation (A3) Marks (B1) Hent Deposits (B2) Heposits (B3) Mat or Crust (B4) Heposits (B5) Heposits (B5) He Soil Cracks (B6)	and soils, a	ired: check all	that apply) Water-Stained 48 (B9) Salt Crust (B' Aquatic Inver- Hydrogen Sui Dxidized Rhiz Presence of Frecent Iron Founted or Stother (explain	d Leaves (exception) 11) 12) 13) 16) 16) 16) 16) 17) 17) 18) 18) 19) 19) 19) 19) 19) 19	present? tent moisture for a pt MLRA 1, 2, 4A Living Roots (C3) 4) ed Soils (C6)	Seco	mdary Indicators Water-Stained 2, 4A & 4B) Drainage Patte Dry-Season W. Saturation Visit Geomorphic Po Shallow Aquita FAC-Neutral To Raised Ant Mo Frost-Heave He	e growing s (2 or more Leaves (B erns (B10) fater Table ble on Aeria osition (D2 ard (D3) est (D5) bunds (D6)	e required) 9) (MLRA (C2) al Imagery)
Type: Depth emarks: DROLO etland H imary Inc Surface High V Satura Water Sedim Drift D Algal N Iron D Surface Inunda Sparse eld Obse atter Table	Problematic weth problematic weth problematic weth problematic weth problematic weth problematic weth problematic water (A1) Water Table (A2) problematic (A3) Marks (B1) Marks (B1) Marks (B1) Marks (B3) Mat or Crust (B4) Mat or Crust (B4) Mat or Crust (B4) Mat or Crust (B6) Mat or Crust	and soils, a	ired: check all	that apply) Vater-Staine 44B) (B9) Salt Crust (B' Aquatic Inver- Hydrogen Sui Dxidized Rhiz Presence of F Recent Iron F Stunted or St Other (explain	d Leaves (exception) 11) 12) 13) 16) 16) 16) 16) 17) 17) 18) 18) 19) 19) 19) 19) 19) 19	present? tent moisture for a pt MLRA 1, 2, 4A Living Roots (C3) 4) ed Soils (C6) D1) (LRR A) Wetland Hyd	Seco	mdary Indicators Water-Stained 2, 4A & 4B) Drainage Patte Dry-Season W. Saturation Visit Geomorphic Po Shallow Aquita FAC-Neutral To Raised Ant Mo Frost-Heave He	e growing s (2 or more Leaves (B erns (B10) fater Table ble on Aeria osition (D2 ard (D3) fest (D5) bunds (D6)	e required) 9) (MLRA (C2) al Imagery) (LRR A)
Type: Depth Permarks: DROLC Petland H Imary Inc Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Sparse Petla Obse Irace Wa ater Table Ituration Indudes co	Problematic weth problematic weth problematic weth problematic weth problematic weth problematic with problematic water (A1) Vater Table (A2) ation (A3) Marks (B1) Problematic weth problematic water (B2) Problematic water (B3) Mat or Crust (B4) Problematic water (B4) Problematic weth problematic water (B4) Problematic water (B4) Problematic weth problematic water (B4) Problematic weth problematic water (B4) Problematic weth problematic water (B4) Problematic weth problematic water (B4) Prob	and soils, a	ired: check all	that apply) Vater-Stained 44B) (B9) Salt Crust (Bray (Bra	d Leaves (exception) tebrates (B13) Iffide Odor (C1) cospheres along Reduced Iron (CReduction in Tilleressed Plants (En in remarks)	present? tent moisture for a ot MLRA 1, 2, 4A Living Roots (C3) 4) ed Soils (C6) 01) (LRR A) Wetland Hyder	Seco	mdary Indicators Water-Stained 2, 4A & 4B) Drainage Patte Dry-Season W. Saturation Visit Geomorphic Po Shallow Aquita FAC-Neutral To Raised Ant Mo Frost-Heave He	e growing s (2 or more Leaves (B erns (B10) fater Table ble on Aeria osition (D2 ard (D3) fest (D5) bunds (D6)	e required) 9) (MLRA (C2) al Imagery) (LRR A)
Type: Depth marks: DROLO etland H mary Inc Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Sparse eld Obse rface Wa ater Tabl turation cludes c	(inches): Problematic wetlesses (B1) Problematic wetlesses (B2) Problematic wetlesses (B3) Problematic (B4) Problematic wetlesses (B5) Problematic (B4) Problematic wetlesses (B6) Problematic (B4) Problematic (and soils, a	ired: check all	that apply) Vater-Stained 44B) (B9) Salt Crust (Bray (Bra	d Leaves (exception) tebrates (B13) Iffide Odor (C1) cospheres along Reduced Iron (CReduction in Tilleressed Plants (En in remarks)	present? tent moisture for a ot MLRA 1, 2, 4A Living Roots (C3) 4) ed Soils (C6) 01) (LRR A) Wetland Hyder	Seco	mdary Indicators Water-Stained 2, 4A & 4B) Drainage Patte Dry-Season W. Saturation Visit Geomorphic Po Shallow Aquita FAC-Neutral To Raised Ant Mo Frost-Heave He	e growing s (2 or more Leaves (B erns (B10) fater Table ble on Aeria osition (D2 ard (D3) fest (D5) bunds (D6)	e required) 9) (MLRA (C2) al Imagery) (LRR A)



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

DP - 2

Project/Site: 14065 162nd Avenue NE				City/	County: K	(ing Coun	ty	Sampling of	date:	3/7/22	
Applicant/Owner: Kellin Homes							State: WA	•'			
Investigator(s): S. Payne				Section,	Township,	Range:	S23, T26N, R	— 105E			
Landform (hillslope, terrace, etc): Slop							, none): Co		Slope	(%):	5
Subregion (LRR): A Lat: -								um: -			
Soil Map Unit Name: Alderwood grave							ation: None				
Are climatic / hydrologic conditions on the											
Are Vegetation □, Soil □, or Hydrology □							es" present on		Yes □	l No	
Are Vegetation □, Soil □, or Hydrology □	-			(If ne	eded, expla	ain any an	swers in Rema	arks.)			
SUMMARY OF FINDINGS – Atta	ch site map sho	wing sa	mpli	ng point	locations,	transect	s, important f	features, et	tc.		
Hydrophytic Vegetation Present?	Yes □	No [\boxtimes								
Hydric Soils Present?	Yes □	No [\boxtimes		the Samplithin a We			Yes □	No	\boxtimes	
Wetland Hydrology Present?	Yes □	No [\boxtimes	, vv	itiiii a vve	filaliu f					
Remarks: Wetter than normal pe VEGETATION – Use scientific nan											
	Α	bsolute	Do	ominant	Indicator	Domina	ance Test wor	ksheet:			
Tree Stratum (Plot size: 5-m diameter)		6 Cover	Sp	pecies?	Status		r of Dominant S		0		(4)
 Platanus x acerifolia *Acer sp. 		50 50		Y	NL FACU	1	OBL, FACW, umber of Domi	-			(A)
3						Species	Across all Str	ata:	2		(B)
4		100	=	Total Cov	/er		of Dominant S		0		(A/B)
Sapling/Shrub Stratum (Plot size: 3-m d	iameter)		_				ence Index wo				<u> </u>
1.	,					Total %	Cover of:	<u>Mu</u>	ultiply by:		
2. 3.						OBL spe			1 = 2 =		_
4.						FAC sp	ecies		3 =		
5		0		Total Cov	/or	FACU s			1 = 5 =		_
Herb Stratum (Plot size: 1-m diameter)				Total Co	701	Column		(A)			(B)
1. <u>Lapsana communis</u>		5		Υ	FACU	Prevale	nce Index = B/	A =			
2						Hye	drophytic Veg	jetation Ind	icators:		
4						1	Rapid Test for Dominance To		_	tion	
5. 6.						-1	Prevalence In				
7.						□ 4-	Morphological data in Rema				
8. 9.						□ 5-	Wetland Non-			Sileet)	
10						-1	blematic Hydr	. , .	,	•	,
11		5	= '	Total Cov	/er		ors of hydric so , unless disturb			logy m	iust be
Woody Vine Stratum (Plot size: 3-m dia			_								
1						Hydro Vegeta		Yes [л м	。	
		0	_ = '	Total Cov	/er	Preser		.03 L	,		
% Bare Ground in Herb Stratum: 9:						<u> </u>					
Remarks: *Maple not identified to s	pecies, presumed	FACU.									

SOIL Sampling Point: DP-2

Profile De	scription: (Descri	ibe to the c	lepth neede		nt the indicator x Features	or confirm the at	sence	of indicators	.)	
(inches)	Color (moist)	%	Color (m			e ¹ Loc ²	2	Texture	R	emarks
0-10	10YR 2/2	100						Sandy loam		
10-16	10YR 4/6	100						Sandy loam		
10 10	10111 1/0							- Carray roam		
¹Type: C=0	Concentration, D=I	Depletion, F	RM=Reduced	d Matrix, CS=0	Covered or Coate	ed Sand Grains.	²Loc: l	PL=Pore Linin	g, M=Matrix	
	il Indicators: (Ap							tors for Prob		
-	sol (A1)	•		Sandy Redox			□ 20	cm Muck (A10))	
☐ Histic	Epipedon (A2)			Stripped Matri				ed Parent Ma	, ,	
	Histic (A3)				Mineral (F1) (exc	cept MLRA 1)		ery Shallow D		(TF12)
	ogen Sulfide (A4)			_oamy Gleyed	` '			ther (Explain i	in Remarks)	
	eted Below Dark So Dark Surface (A1)	,	,	Depleted Matr Redox Dark S			3 Indias	ators of hydrop	shytic yogoto	tion and
	y Mucky Mineral (S	,		Depleted Dark	` '					resent, unless
	y Gleyed Matrix (S			Redox Depres				sturbed or prob		
Restrictive	e Layer (if presen	t):								
Type:						Hydric soil		Yes	□ No	\boxtimes
Denth	(inches):					present?				_
HYDROL	OGY									
	lydrology Indicated dicators (minimum		uired: check	all that apply)			Secor	ndary Indicato	rs (2 or more	e required)
	ce water (A1)				ed Leaves (exce	pt MLRA 1, 2, 4A		Water-Staine		
	Water Table (A2)			& 4B) (B9)	(,		2, 4A & 4B)	(_	-, (,
	ation (A3)			Salt Crust (E	311)			Drainage Pat		
	r Marks (B1)			•	ertebrates (B13)			Dry-Season		
	nent Deposits (B2)			, ,	ulfide Odor (C1)	Linia - Danie (00)				al Imagery (C9)
	Deposits (B3) Mat or Crust (B4)				izospneres along Reduced Iron (C	Living Roots (C3)		Geomorphic Shallow Aqui	`)
_	Deposits (B5)				Reduction in Tille	,		FAC-Neutral		
	ce Soil Cracks (B6	5)			Stressed Plants (I			Raised Ant M		(LRR A)
	ation Visible on Ae				in in remarks)	, (,		Frost-Heave		,
	sely Vegetated Cor			` .	,					
Field Obs	ervations:									
Surface W	ater Present?	Yes □	No ⊠	Depth (in):		Wetland Hyd	rology			
Water Tab	le Present?	Yes □	No ⊠	Depth (in):		Present		Y	es ⊔	No 🛛
Saturation (includes of	Present? capillary fringe)	Yes □	No ⊠	Depth (in):						
	Recorded Data (str	eam gauge	, monitoring	well, aerial ph	otos, previous in	spections), if avail	able:			
Remarks:							· <u> </u>			



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

DP - 3

Project/Site: 14065 162nd Avenue NE				City/	County: K	(ing Count	у	Samp	ling dat	e: <u>3/7/22</u>	2
Applicant/Owner: Kellin Homes							State: _\	NA Sa	mpling I	Point: DP	·-3
Investigator(s): S. Payne				Section,	Township,	Range:	S23, T26N	N, R05E			
Landform (hillslope, terrace, etc): Hillslope				Local re	lief (concave	e, convex,	none):	Concave		Slope (%):	3
Subregion (LRR): A Lat: -				g: -			· <u> </u>	Datum:	_		
Soil Map Unit Name: Alderwood gravelly					NW			_			
Are climatic / hydrologic conditions on the site											
Are Vegetation □, Soil □, or Hydrology □ si			-		Normal Circ				? ⊠ Ye	es □ No	
Are Vegetation □, Soil □, or Hydrology □ na	-				eded, expla						
SUMMARY OF FINDINGS — Attach	site map sh	nowing s	ampli						es, etc.		
Hydrophytic Vegetation Present?	Yes 🛛	No									
Hydric Soils Present?	Yes ⊠	No			the Sampl ithin a We			Yes	\boxtimes	No 🗆	
Wetland Hydrology Present?	Yes ⊠	No		"	itimi a we	dana:					
VEGETATION – Use scientific names	of plants.										
<u>Tree Stratum</u> (Plot size: 5-m diameter) 1. <u>Salix lasiandra</u>		Absolute % Cover 30		ominant pecies? Y	Indicator Status FACW	Number	nce Test v of Domina OBL, FAC	nt Species	i	2	(A)
2. 3.					17.011	Total Nu	mber of Do	ominant		2	_ (B)
4.				Total Cov	/er	Percent	of Domina	nt Species		100	(A/B)
Sapling/Shrub Stratum (Plot size: 3-m diam	eter)		_				nce Index				
1.	,					Total %	Cover of:		Multip	oly by:	
2						OBL spe FACW s			_ x 1 = x 2 =		_
4.						FAC spe			_		_
5						FACU s			x 4 =		_
Herb Stratum (Plot size: 1-m diameter)	_	0	_ =	Total Cov	/er	UPL spe			_ x 5 = (A)		— (B)
1. Ranunculus repens		80		Υ	FAC		nce Index =	B/A =	(, ,)		(=)
*Poaceae Phalarus arundinacea		10 15		N N	FAC FACW		drophytic \		Indiaa	toro	
4. Geranium molle		3		N	UPL		Rapid Test	_			
5. 6. 7. 8.						□ 3 − □ 4 −		e Index is s ical Adapta marks or o	≤ 3.0¹ ations¹ (on a sep	(Provide sup	
9										s [.] tion¹ (Expla	in)
11.						¹ Indicate	ors of hydric	c soil and v	vetland	hydrology n	
Woody Vine Stratum (Plot size: 3-m diamet	_	108	_ = -	Total Cov	/er	present,	unless dis	turbed or p	roblema	atic.	
1	,					Hydrop Vegeta		Ye	s 🏻	No □	1
		0	= -	Total Cov	/er	Presen					•
% Bare Ground in Herb Stratum: 2											
Remarks: *Mowed grass not identifiable	le to species,	, presume	ed FAC	Э.							

SOIL				Sampling Point	t: DP-3
Profile Description: (Describe to the del Depth Matrix	pth needed to de	ocument the indicato Redox Features	r or confirm the al	bsence of indicators.)	
(inches) Color (moist) %	Color (moist)	% Ty	oe¹ Loc	² Texture	Remarks
0-6 10YR 2/1 100				Sandy loam	
6-10 10YR 3/2 100				Sandy loam	
10-16 10YR 3/4 70 10YR 2/2 30				Sandy loam	
¹ Type: C=Concentration, D=Depletion, RM	1=Reduced Matrix	x, CS=Covered or Coa	ted Sand Grains.	² Loc: PL=Pore Lining, M:	=Matrix.
Hydric Soil Indicators: (Applicable to al	l LRRs, unless o	otherwise noted.)		Indicators for Problema	tic Hydric Soils ³ :
 ☐ 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) 	□ Strippe □ Loamy □ Loamy □ Deplete □ Redox □ Deplete	Redox (S5) d Matrix (S6) Mucky Mineral (F1) (e Gleyed Matrix (F2) ed Matrix (F3) Dark Surface (F6) ed Dark Surface (F7) Depressions (F8)	xcept MLRA 1)	□ 2cm Muck (A10) □ Red Parent Material □ Very Shallow Dark S ☑ Other (Explain in Re ³ Indicators of hydrophytic wetland hydrology mu disturbed or problema	Surface (TF12) marks) c vegetation and ust be present, unless
Restrictive Layer (if present):					
Туре:			Hydric soi present?	I Yes ⊠	No 🗆
Depth (inches):			'		
Remarks: Problematic wetland soils, ac	quic moisture regi	ime evidenced by pers	istent moisture for a	at least two weeks in the g	rowing season.
HYDROLOGY					
Wetland Hydrology Indicators: Primary Indicators (minimum of one requir	ed: check all that	apply)		Secondary Indicators (2	or more required)
Surface water (A1)	Wate	er-Stained Leaves (exc	ept MLRA 1, 2, 4A	Water-Stained Le	aves (B9) (MLRA 1,

Wetland Hydrology Indica Primary Indicators (minimu		ne rec	uired.	check	all that annly)		Seco	andary Indicators (2 or more required)
 Surface water (A1) ⊢ High Water Table (A2 		e req	ulieu.		,	ned Leaves (exc	ept MLRA 1, 2, 4A		Water-Stained Leaves (B9) (MLRA 1, 2, 4A & 4B)
✓ Flight Water Table (A2✓ Saturation (A3)	'				Salt Crust (Drainage Patterns (B10)
☐ Water Marks (B1)					,	rertebrates (B13)			Dry-Season Water Table (C2)
☐ Sediment Deposits (B	2)				•	Sulfide Odor (C1)			Saturation Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3)	_,				, ,	` '	g Living Roots (C3)		Geomorphic Position (D2)
☐ Algal Mat or Crust (B4	1)					of Reduced Iron (• • • • •		Shallow Aguitard (D3)
☐ Iron Deposits (B5)	,					n Reduction in Til	,		FAC-Neutral Test (D5)
☐ Surface Soil Cracks (E	36)					Stressed Plants	` ,		Raised Ant Mounds (D6) (LRR A)
☐ Inundation Visible on	,	mage	ry (B7) 🗆		ain in remarks)	, , ,		Frost-Heave Hummocks
□ Sparsely Vegetated C		•	• • •	,		,			
Field Observations:									
Surface Water Present?	Yes	\boxtimes	No		Depth (in):	0.5"	Watland Hydr	ologu	
Water Table Present?	Yes	\boxtimes	No		Depth (in):		Wetland Hydro Present?		Yes ⊠ No 🗆
Saturation Present? (includes capillary fringe)	Yes	\boxtimes	No		Depth (in):				
Describe Recorded Data (s	stream (gauge	, mon	itoring	well, aerial pl	hotos, previous i	nspections), if availal	ble:	
Remarks:									



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

DP - 4

Project/Site: 14065 162nd Avenue NE				City/C	County: K	(ing Count	у	Samp	oling dat	te: <u>3/7/2</u>	22
Applicant/Owner: Kellin Homes							State: V	VA Sa	mpling	Point: D	P-4
Investigator(s): S. Payne				Section,	Township,	Range:	S23, T26N	I, R05E			
Landform (hillslope, terrace, etc): Hills				Local reli	ef (concav	e, convex,	none):	Concave		Slope (%):	5
Subregion (LRR): A Lat: -				g: -				Datum:	_		
Soil Map Unit Name: Alderwood grave							ation: No				
Are climatic / hydrologic conditions on the											-
Are Vegetation \square , Soil \square , or Hydrology \square			-				s" present		2 ⊠ Y	es □ No	
Are Vegetation \square , Soil \square , or Hydrology \square	•						swers in Re			30 🗀 110	
SUMMARY OF FINDINGS – Atta			amplii			-			es, etc.		
Hydrophytic Vegetation Present?	Yes □	No									
Hydric Soils Present?	Yes □	No	\boxtimes		he Sampl thin a We			Yes		No 🛛	
Wetland Hydrology Present?	Yes □	No	\boxtimes	•	4 ***	dana.					
Remarks: Wetter than normal per VEGETATION — Use scientific nan											
Tree Stratum (Plot size: 5-m diameter) 1.		Absolute % Cover		ominant pecies?	Indicator Status	Number	nce Test w of Dominar OBL, FACV	nt Species	6	0	(A)
2. 3.							mber of Do			1	(B)
4.						i '	of Dominar			0	_ (5)
	_	0	= -	Total Cov	er	that are	OBL, FAC	V, or FAC	:		(A/B)
Sapling/Shrub Stratum (Plot size: 3-m d	,						nce Index	workshee			
1						OBL spe	Cover of: ecies		<u>Multi</u> x 1 =	ply by:	
3.						FACW s	pecies		x 2 =		_
4.						FAC spe	_			·	
5		0		Total Cov	or	FACU spe	_		_ x 4 = x 5 =	_	
Herb Stratum (Plot size: 1-m diameter)	_			Total Cov	GI	Column			- ^3 - (A)		(B)
1. Taraxacum officinale		70		Υ	FACU	Prevaler	nce Index =	B/A =	, ,		, ,
Lamium purpureum *Poaceae		20 20		N N	UPL FAC	Hye	Irophytic V	/egetation	Indica	etore:	
4. Geranium molle	-	3		N	UPL		Rapid Test	_			
5. Galium aparine		2		N	FACU	□ 2-	Dominance	e Test is >	50%	Ü	
6.							Prevalence			(Drovido o	ınnortina
7. 8.							Morphologi data in Rer				
9						□ 5-	Wetland No	on-Vascul	ar Plant	ts ¹	•
10						1	blematic Hy		-		
11		115		Total Cov	er		ors of hydric unless dist				must be
Woody Vine Stratum (Plot size: 3-m dia	meter)	110		rotal cov	0.						
1. 2.						Hydrop Vegeta		Va		No 🏻	⊲
2		0	= -	Total Cov	er	Presen		re	es ∐	NO 2	2
% Bare Ground in Herb Stratum: 0											
Remarks: *Mowed grass not identif	iable to species,	presume	ed FAC	С.							

SOIL Sampling Point: DP-4

Profile De	scription: (Descri	be to the c	depth neede		ent the indicator	or confirm the ak	sence	of indicators	.)	
(inches)	Color (moist)	%	Color (m		% Type	e ¹ Loc ²	!	Texture	R	emarks
0-10	10YR 2/1	100						Sandy loam		
10-16	10YR 3/4	100						Sandy loam		
10 10	1011(0,1	100						- Carray roam		
¹Type: C=0	Concentration, D=I	Depletion, F	RM=Reduced	d Matrix, CS=	Covered or Coate	ed Sand Grains.	²Loc:	PL=Pore Linin	g, M=Matrix	
	il Indicators: (Ap							tors for Prob		
-	sol (A1)			Sandy Redox				cm Muck (A10	•	
☐ Histic	Epipedon (A2)			Stripped Matr				ed Parent Ma	, ,	
	Histic (A3)				Mineral (F1) (ex	cept MLRA 1)		ery Shallow D		,
	ogen Sulfide (A4)			Loamy Gleye	` '			ther (Explain i	n Remarks)	
	eted Below Dark Su Dark Surface (A12	,	,	Depleted Mat Redox Dark S			3 India	ators of hydrop	hytic vogot	ation and
	y Mucky Mineral (S	,			k Surface (F7)					present, unless
	y Gleyed Matrix (S			Redox Depre				sturbed or prob		,
Restrictive	e Layer (if presen	t):								
Type:						Hydric soil		Yes		×
Denth	(inches):					present?				_
HYDROL	OGY									
	lydrology Indicated dicators (minimum		uired: check	all that apply)		Seco	ndary Indicato	rs (2 or mor	e required)
	ce water (A1)					pt MLRA 1, 2, 4A		Water-Staine		
	Water Table (A2)			& 4B) (B9)	(,, ., _,		2, 4A & 4B)		, (,
	ation (A3)			Salt Crust (B11)			Drainage Pat		
	r Marks (B1)				ertebrates (B13)			Dry-Season		
	nent Deposits (B2)			, ,	Sulfide Odor (C1)	Lisia - Danie (00)				al Imagery (C9)
	Deposits (B3) Mat or Crust (B4)				nizospneres along f Reduced Iron (C	Living Roots (C3)		Geomorphic Shallow Aqui	`	<u>(2)</u>
_	Deposits (B5)				Reduction in Tille	,		FAC-Neutral		
	ce Soil Cracks (B6)			Stressed Plants (I			Raised Ant M		(LRR A)
	ation Visible on Ae				ain in remarks)	/ (/		Frost-Heave		(=::::-,
	sely Vegetated Cor			` '	,					
Field Obs	ervations:									
Surface W	ater Present?	Yes □	No ⊠	Depth (in):		Wetland Hyd	rology			
Water Tab	le Present?	Yes □	No ⊠	Depth (in):		Present		Y	es ∐	No 🛛
Saturation (includes of	Present? capillary fringe)	Yes □	No ⊠	Depth (in):						
	Recorded Data (str	eam gauge	, monitoring	well, aerial pl	notos, previous in	spections), if avail	able:			
Remarks:										



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

DP - 5

Project/Site: 14065 162nd Avenue NE				City/County: _ k	King County	Samp	ling date:	3/7/22	!
Applicant/Owner: Kellin Homes					State:	_WA Sar	npling Poi	int: <u>DP</u>	-5
Investigator(s): S. Payne				Section, Township,	Range: S23,	T26N, R05E			
Landform (hillslope, terrace, etc): Hillslo				Local relief (concav	e, convex, none)	: None	Slc	ope (%):	1
Subregion (LRR): A Lat: -			Lon	g:		Datum:	-		
Soil Map Unit Name: Alderwood grave									
Are climatic / hydrologic conditions on the	site typical for t	this time of	of year	? □ Yes ⊠ No	(If no, explain in	remarks.)			
Are Vegetation □, Soil □, or Hydrology □	significantly dis	sturbed?		Are "Normal Circ	cumstances" pres	sent on the site	? ⊠ Yes	□ No	
Are Vegetation □, Soil □, or Hydrology □	naturally probl	ematic?		(If needed, expla	ain any answers	in Remarks.)			
SUMMARY OF FINDINGS – Attac	h site map sh	nowing s	ampli	ng point locations,	, transects, imp	ortant feature	s, etc.		
Hydrophytic Vegetation Present?	Yes □	No	\boxtimes						
Hydric Soils Present?	Yes □	No	\boxtimes	Is the Sample within a We		Yes		No 🛛	
Wetland Hydrology Present?	Yes □	No	\boxtimes						
VEGETATION – Use scientific nam	es of plants.								
<u>Tree Stratum</u> (Plot size: 5-m diameter) 1.		Absolute % Cover		ominant Indicator pecies? Status	Number of Do	est worksheet: minant Species FACW, or FAC:		1	_ (A)
2					Total Number Species Acros			2	(B)
4		0	_ =	Total Cover		minant Species FACW, or FAC:		50	(A/B)
Sapling/Shrub Stratum (Plot size: 3-m dia	,					dex workshee			
1. 2.					Total % Cover OBL species	<u>of:</u>	$\frac{\text{Multiply}}{\text{x 1}} =$	<u>by:</u>	
3.					FACW species	3	x 2 =		_
4. 5.					FAC species FACU species				_
5		0	= .	Total Cover	UPL species		x 4 = _ x 5 =		_
Herb Stratum (Plot size: 1-m diameter)				=	Column Totals	:	(A)		(B)
*Poaceae Hypochaeris radicata		80 25		Y FAC Y FACU	Prevalence Inc	dex = B/A =			
3.						ytic Vegetation			
4. 5.					•	Test for Hydrop nance Test is >		jetation	
6					-1	lence Index is ≤			
7.						nological Adapta n Remarks or o			
9.						nd Non-Vascula	•	ale sileet)	'
10					7	tic Hydrophytic	-		
11.		105		Total Cover		nydric soil and v s disturbed or p			nust be
Woody Vine Stratum (Plot size: 3-m diam	,				Hydrophytic				
2		0		Total Cover	Vegetation Present?	Ye	s 🗌	No 🛚	l
% Bare Ground in Herb Stratum: 0	_			Total Cover	r resent:				
Remarks: *Mowed grass not identifia	able to species,	, presume	ed FA(C.					

SOIL Sampling Point: DP-5

		ribe to the	depth need	ded to do	ocument the indicator	or confirm the al	osence	of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Redox Features % Typ	e ¹ Loc ²	2	Texture	Remarks
0-9	10YR 2/2	100	Color (ilioist)		<u>e Loc</u>		Sandy loam	Remarks
	10YR 4/6	95						•	
9-26	10YR 5/2	5						Sandy loam	
¹Type: C=C	Concentration, D=	:Depletion,	RM=Reduc	ed Matrix	, CS=Covered or Coat	ed Sand Grains.	² Loc:	PL=Pore Lining, M=N	Natrix.
Hydric Soi	il Indicators: (Ap	plicable t	o all LRRs,	unless o	therwise noted.)		Indica	tors for Problemation	: Hydric Soils³:
	sol (A1)				Redox (S5)			cm Muck (A10)	
	Epipedon (A2)				d Matrix (S6)	and MLDA 4)		Red Parent Material (7	
	Histic (A3) gen Sulfide (A4)				Mucky Mineral (F1) (ex Gleyed Matrix (F2)	cept IVILKA 1)		ery Shallow Dark Sur Other (Explain in Rem	
,	ted Below Dark S	Surface (A1			d Matrix (F3)			Aner (Explain in Nem	aiks)
	Dark Surface (A1		_		Dark Surface (F6)		³ Indica	ators of hydrophytic v	egetation and
☐ Sandy	/ Mucky Mineral (S1)		Deplete	d Dark Surface (F7)			etland hydrology mus	
☐ Sandy	/ Gleyed Matrix (S	54)		Redox I	Depressions (F8)	1	dis	sturbed or problemati	C.
Restrictive	Layer (if prese	nt):							
Type:						Hydric soil		Yes □	No 🛛
Denth	(inches):					present?			
	(
Remarks:									
HYDROLO	OGY								
	ydrology Indicat			المحالة المحا			0	adamiladiaatam (O.a.	
	dicators (minimum	n of one re	quirea: cned					ndary Indicators (2 or	
	ce water (A1) Nater Table (A2)			Water	r-Stained Leaves (exce L(B9)	ept MLRA 1, 2, 4A		Water-Stained Leav 2, 4A & 4B)	es (B9) (MLRA 1,
	ation (A3)		Г	,	Crust (B11)			Drainage Patterns (B10)
	Marks (B1)		_		tic Invertebrates (B13)			Dry-Season Water	
	nent Deposits (B2)			ogen Sulfide Odor (C1)				Aerial Imagery (C9)
☐ Drift D	eposits (B3)			Oxidiz	zed Rhizospheres along	Living Roots (C3)		Geomorphic Positio	n (D2)
-	Mat or Crust (B4)				ence of Reduced Iron (0	,		Shallow Aquitard (D	
	eposits (B5)		_		nt Iron Reduction in Till	` '		FAC-Neutral Test (,
	ce Soil Cracks (Be				ed or Stressed Plants (D1) (LRR A)		Raised Ant Mounds	, , ,
	ation Visible on A ely Vegetated Co			∪ther	(explain in remarks)			Frost-Heave Humm	OCKS
Field Obse		ilcave our	iacc (Do)						
	ater Present?	Yes □	No ⊠	Depth	(in):				
		Yes □			` '	Wetland Hyd		Yes □	No ⊠
Water Tabl				Depth	` ′	Present	17		
Saturation (includes ca	Present? apillary fringe)	Yes □	No ⊠	Depth	(in):				
		ream gaug	e monitorin	g well, ac	erial photos, previous ir	spections), if avail	able:		
	2000 (00)	g - 4g	, - ,	J z, GC		-,,, avan			
Remarks:									
1									



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

DP - 6

Project/Site: 14065 162nd Avenue NE				City/	County: <u>k</u>	King County	/	Samp	oling dat	te: <u>3/7/22</u>	2
Applicant/Owner: Kellin Homes							State: V	VA Sa	mpling	Point: DP	'-6
Investigator(s): S. Payne				Section,	Township,	Range:	S23, T26N	, R05E			
Landform (hillslope, terrace, etc): Hillslop				Local re	lief (concav	e, convex,	none):(Convex		Slope (%):	3
Subregion (LRR): A Lat: -				g: -				Datum:	-		
Soil Map Unit Name: Alderwood gravelly					NW						
Are climatic / hydrologic conditions on the si					—— s ⊠ No	(If no, expla	ain in rema	rks.)			
Are Vegetation □, Soil □, or Hydrology □ s			-		Normal Circ				? ⊠ Y	es □ No	
Are Vegetation □, Soil □, or Hydrology □ r	•				eded, expla						
SUMMARY OF FINDINGS – Attach	site map sh	owing s	sampli			-			es, etc.		
Hydrophytic Vegetation Present?	Yes □	No	\boxtimes								
Hydric Soils Present?	Yes \square	No	\boxtimes		the Sampl ithin a We			Yes		No 🛛	
Wetland Hydrology Present?	Yes □	No	\boxtimes	•	itimii a vvo	Juliu I					
VEGETATION – Use scientific name:	s of plants.										
<u>Tree Stratum</u> (Plot size: 5-m diameter) 1.		Absolute % Cover		ominant pecies?	Indicator Status	Number	nce Test wo of Dominar	nt Species	6	1	_ (A)
2.							mber of Do			3	(B)
3. 4.						1 '	of Dominar				- (D)
	_	0	=	Total Cov	/er		OBL, FAC			33.3	(A/B)
Sapling/Shrub Stratum (Plot size: 3-m dian	,						nce Index	workshee			
1. 2.						OBL spe	Cover of: cies		<u>Multi</u> x 1 =	<u>ply by:</u> :	
3.						FACW s	pecies		x 2 =		
4.						FAC spe	_				
5		0		Total Cov	/Or	FACU sp UPL spe	_		_ x 4 = x 5 =		_
Herb Stratum (Plot size: 1-m diameter)	_		_ =	TOLAI CO	/ei	Column			_ X S = (A)		(B)
1. *Poaceae		35		Υ	FAC		ce Index =	B/A =	()		()
2. Taraxacum officinale		30		Y	FACU			•	. Indian	1000	
Dactylis glomerata Lamium purpureum		20 15		Y N	FACU UPL		rophytic V Rapid Test	_			
5					0. 2		Dominance	,	, ,	ogotation.	
6							Prevalence				
7. 8.										(Provide sup parate sheet	
9.							Wetland No				,
10						☐ Prob	olematic Hy	drophytic	Vegeta	ition¹ (Expla	in)
11							rs of hydric unless dist			hydrology r	nust be
Woody Vine Stratum (Plot size: 3-m diame	eter)	100	_ =	Total Cov	ver	present,	uriless dist	urbed or p	JODICIII	alic.	
1	•					Hydrop			_	_	_
2		0		Total Cov	,or	Vegetat Present		Ye	s 🗆	No 🗵]
% Bare Ground in Herb Stratum: 0	_			Total Cov	/ C I	Fiesein					
Remarks: *Mowed grass not identifial	ole to species	nrecum	ad EAC	`							
inowed grass not identifiate	ne to species,	presum	ou i A	J.							

SOIL Sampling Point: DP-6

Profile De	escription: (Descri	be to the de	pth needed	to document the indicator of Redox Features	or confirm the ab	sence of inc	dicators.)	
(inches)	Color (moist)	%	Color (mois		Loc ²	Tex	kture	Remarks
0-4	10YR 2/2	100				Sand	y loam	
4-9	10YR 3/1	100				Sand	y loam	
9-16	10YR 4/6	100				Sand	y loam	
	_							
				Matrix, CS=Covered or Coate			ore Lining, M=M	
_	on indicators: (App sol (A1)	olicable to a	•	ess otherwise noted.) undy Redox (S5)			or Problematic uck (A10)	Hydric Solis":
	Epipedon (A2)			ripped Matrix (S6)			arent Material (T	F2)
☐ Black	Histic (A3)			amy Mucky Mineral (F1) (exc	cept MLRA 1)	□ Very S	hallow Dark Surf	ace (TF12)
	ogen Sulfide (A4)	f (A44)		amy Gleyed Matrix (F2)		□ Other (Explain in Rema	irks)
	eted Below Dark Su Dark Surface (A12	` ,		epleted Matrix (F3) edox Dark Surface (F6)		3 Indicators of	of hydrophytic ve	egetation and
☐ Sand	y Mucky Mineral (S	S1)	□ De	epleted Dark Surface (F7)		wetland	hydrology must	be present, unless
☐ Sand	y Gleyed Matrix (S	4)	□ Re	edox Depressions (F8)		disturbe	d or problematic	
Restrictive	e Layer (if presen	t):			Hydric soil			
Type:					Hydric soil present?		Yes 🗆	No 🛛
Depth	i (inches):				,			
Remarks:								
HYDROL	OGY							
	Hydrology Indicato dicators (minimum		red: check all	that apply)		Secondary	Indicators (2 or	more required)
	ce water (A1)			Water-Stained Leaves (exce	pt MLRA 1, 2, 4A			es (B9) (MLRA 1 ,
	Water Table (A2)		ş	& 4B) (B9)		⁻ 2, 4 <i>i</i>	A & 4B)	140)
	ation (A3) r Marks (B1)			Salt Crust (B11) Aquatic Invertebrates (B13)			nage Patterns (E Season Water T	•
	nent Deposits (B2)			Hydrogen Sulfide Odor (C1)		•		Aerial Imagery (C9)
	Deposits (B3)			Oxidized Rhizospheres along	Living Roots (C3)		morphic Position	
-	Mat or Crust (B4)			Presence of Reduced Iron (C			low Aquitard (D3	•
	Deposits (B5)	`		Recent Iron Reduction in Tille	, ,		-Neutral Test (D	
	ce Soil Cracks (B6) lation Visible on Ae			Stunted or Stressed Plants (E Other (explain in remarks))1) (LRR A)		ed Ant Mounds (t-Heave Hummo	
	sely Vegetated Con			Strict (explain in ternains)		□ 1103	r icave i idillille	icks
	ervations:							
Surface W	ater Present?	Yes □	No 🗵 D	Depth (in):				
Water Tab	le Present?	Yes □	No ⊠ D	Depth (in):	Wetland Hyd Present		Yes 🗌	No 🛛
Saturation (includes of	Present? capillary fringe)	Yes □	No ⊠ D	Depth (in):				
		eam gauge,	monitoring we	ell, aerial photos, previous ins	spections), if availa	able:		
Remarks:								



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

DP - 7

Project/Site: 14065 162nd Avenue NE		City/County:	King Coun	ty Samp	ling date: 3	/7/22
Applicant/Owner: Kellin Homes				State: WA Sar	mpling Point:	DP-7
Investigator(s): S. Payne		Section, Township	p, Range:	S23, T26N, R05E	•	
Landform (hillslope, terrace, etc): Hillslope			ave, convex	, none): None	Slope (%): 1
Subregion (LRR): A Lat: -		ng: -		Datum:		
Soil Map Unit Name: Alderwood gravelly sandy loam			WI classific			
Are climatic / hydrologic conditions on the site typical for t	his time of year	r? □ Yes ⊠ No	(If no, exp	lain in remarks.)		
Are Vegetation □, Soil □, or Hydrology □ significantly di	sturbed?	Are "Normal C	ircumstance	es" present on the site	? ⊠ Yes □	No
Are Vegetation \square , Soil \square , or Hydrology \square naturally probl	ematic?	(If needed, exp	plain any an	swers in Remarks.)		
SUMMARY OF FINDINGS – Attach site map sh	lowing sampli	ing point location	s, transect	s, important feature	s, etc.	
Hydrophytic Vegetation Present? Yes	No ⊠	<u> </u>				
Hydric Soils Present? Yes □	No 🗵	Is the Sam within a V		Yes	□ No I	\boxtimes
Wetland Hydrology Present? Yes □	No ⊠	within a v	velianu :			
Remarks: Wetter than normal per WETS method	l.					
VEGETATION – Use scientific names of plants.						
	Absolute De	ominant Indicato	r Domina	nce Test worksheet:	!	
Tree Stratum (Plot size: 5-m diameter)	% Cover Sp	pecies? Status	Number	of Dominant Species	1	
1. <u>Ilex aquifolium</u> 2	30	Y FACU		OBL, FACW, or FAC: umber of Dominant		(A)
3.				Across all Strata:	2	(B)
4	30 =	Total Cover		of Dominant Species OBL, FACW, or FAC:	50	(A/B)
Sapling/Shrub Stratum (Plot size: 3-m diameter)		Total Cover		nce Index workshee		(/ (/))
1.			Total %	Cover of:	Multiply by:	
2. 3.			OBL sp		x 1 =	
3. 4.			FAC sp		x 3 =	
5.			FACU s		x 4 =	
Herb Stratum (Plot size: 1-m diameter)	0 =	Total Cover	UPL sp		x 5 =	(D)
1. *Poaceae	100	Y FAC		nce Index = B/A =	(A)	(B)
2					In Profess	
3. 4.				drophytic Vegetation Rapid Test for Hydrop		on
5.				Dominance Test is >		
6.				Prevalence Index is ≤		
7. 8.			- □ 4-	Morphological Adapta data in Remarks or o		
9				Wetland Non-Vascula		
10.				blematic Hydrophytic	•	
11		Total Cover		ors of hydric soil and v , unless disturbed or p		ogy musi be
Woody Vine Stratum (Plot size: 3-m diameter)						
1. 2.			Hydro		s □ No	×
	0 =	Total Cover	Preser		s ⊔ NO	
% Bare Ground in Herb Stratum: 0						
Remarks: *Mowed grass not identifiable to species.	, presumed FA	C.				

SOIL Sampling Point: DP-7

Profile Des	cription: (Desc Matrix		the c	lepth	need			the indicator Features	or confirm the at	sence	of indicators.)		
(inches)	Color (moist)		%	Co	olor (m		%	Type	e ¹ Loc ²	!	Texture		Rer	marks
0-5	10YR 3/2	10	00								Sandy loam			
5-16	10YR 4/6	10	00								Sandy loam			
											<u> </u>			
¹ Type: C=C	oncentration, D=	-Deplet	tion. F	RM=R	educe	d Matrix.	CS=Co	vered or Coate	ed Sand Grains.	²Loc:	PL=Pore Lining	a. M=Ma	atrix.	
	Indicators: (Ap										tors for Proble			c Soils³:
☐ Histose	٠.	•				Sandy R		•			cm Muck (A10)		•	
☐ Histic I	Epipedon (A2)					Stripped	Matrix ((S6)			Red Parent Mate	erial (TI	- 2)	
	Histic (A3)							ineral (F1) (ex	cept MLRA 1)		ery Shallow Da			F12)
	gen Sulfide (A4)		(4.4.4			•	•	Matrix (F2)			Other (Explain in	n Rema	rks)	
	ed Below Dark S Dark Surface (A		(A11)		Depleted Redox D		, ,		3 India	ators of hydropl	hvetic ve	antoti	on and
	Mucky Mineral (,						surface (F7)			etland hydrolog			
	Gleyed Matrix (. ,				Redox D		, ,			sturbed or prob			,
Restrictive	Layer (if prese	nt):												
Type:		•							Hydric soil		Yes	П	No	M
	(Construction)								present?		165	_	NO	
Depth	(inches):													
Remarks:														
HYDROLO)GY													
	ydrology Indica icators (minimur		e requ	uired:	check	all that a	pply)			Seco	ndary Indicators	s (2 or ı	more i	equired)
☐ Surfac	e water (A1)					Water-	Stained	Leaves (exce	pt MLRA 1, 2, 4A		Water-Stained	d Leave	es (B9)	(MLRA 1,
J	Vater Table (A2)				Ш	& 4B)	` '			Ш	2, 4A & 4B)			
	tion (A3)						ust (B1	,			Drainage Patt	,	,	
	Marks (B1)	.,						ebrates (B13)			Dry-Season V		,	,
	ent Deposits (B2 eposits (B3)	2)						ide Odor (C1)	Living Roots (C3)		Saturation Vis Geomorphic F			imagery (C9)
	Mat or Crust (B4)	1						educed Iron (C	• ,		Shallow Aquit		` '	
_	eposits (B5)							eduction in Till			FAC-Neutral			
	e Soil Cracks (B	6)						essed Plants (I			Raised Ant M			RR A)
☐ Inunda	tion Visible on A	erial In	nager	y (B7)) 🗆			in remarks)			Frost-Heave H	Hummo	cks	
☐ Sparse	ely Vegetated Co	ncave	Surfa	ce (B	8)									
Field Obse	rvations:													
Surface Wa	iter Present?	Yes		No		Depth (in):		Wetland Hyd	rology		_		_
Water Table	e Present?	Yes		No		Depth (in):		Present		Ye	es 📙	N	lo 🏻
Saturation F	Present? apillary fringe)	Yes		No		Depth (in):							
		ream o	anıne	mon	itorino	well aer	ial nhot	os, previous in	spections), if avail	able.				
20001100 100	223, 404 Daia (31	ວິດກາ 6	Jaago	,			.a. p. 100	55, pro71000 III	op 30110110), 11 avail					
Remarks:														

RATING SUMMARY – Western Washington

Name of wetland (or ID #): **Wetland A** Date of site visit: 3/7/2022Rated by: S. Payne Trained by Ecology? \boxtimes Y \square N Date of training: June 2017

HGM Class used for rating: Slope Wetland has multiple HGM classes? □ Y ⋈ N

NOTE: Form is not complete without the figures requested (figures can be combined). Source of base aerial photo/map: ESRI, King County iMap

OVERALL WETLAND CATEGORY (based on functions ⊠ or special characteristics □)

1. Category of wetland based on FUNCTIONS

- ☐ Category I Total score = 23 27
- ☐ Category II Total score = 20 22
- ☐ Category IV Total score = 9 15

FUNCTION	Improving Water Quality			Hydrologic			Habitat				
		Circle the appropriate ratings									
Site Potential	Н	М	<u>L</u>	Н	М	L	Н	М	<u>L</u>		
Landscape Potential	Н	M	L	Н	M	L	Н	M	L		
Value	<u>H</u>	М	L	<u>H</u>	М	L	Н	M	L	TOTAL	
Score Based on Ratings		6			6			5		17	

Score for each function based on three ratings (order of ratings is not *important)* 9 = H,H,H8 = H,H,M7 = H,H,L 7 = H, M, M6 = H,M,L6 = M,M,M5 = H,L,L5 = M,M,L4 = M, L, L3 = L,L,L

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	I II III IV
None of the above	\boxtimes

Wetland name or number: Wetland A

Maps and figures required to answer questions correctly for Western Washington

Slope Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	1
Hydroperiods	H 1.2	3
Plant cover of dense trees, shrubs, and herbaceous plants	S 1.3	2
Plant cover of dense , rigid trees, shrubs, and herbaceous plants	S 4.1	2
(can be added to figure above)		2
Boundary of 150 ft buffer (can be added to another figure)	S 2.1, S 5.1	3
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	4
polygons for accessible habitat and undisturbed habitat		4
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	S 3.1, S 3.2	5
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	S 3.3	6

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.

Are the water levels in the	entire unit usually controll	ed by tides except during floods?
⊠NO – go to 2	\square YES – the	wetland class is Tidal Fringe – go to 1.1
1.1 Is the salinity of the wat	er during periods of annual	low flow below 0.5 ppt (parts per thousand)?
If your wetland can be cl is Saltwater Tidal Fringe	assified as a Freshwater Tida e it is an Estuarine wetland a	
\boxtimes NO – go to 3 If your wetland can be class	ssified as a Flats wetland, use	\square YES – The wetland class is Flats the form for Depressional wetlands.
☐The vegetated part of the plants on the surface at	ne wetland is on the shores of t any time of the year) at leas	of a body of permanent open water (without any st 20 ac (8 ha) in size;
⊠NO - go to 4	\square YES – The wetland \square	class is Lake Fringe (Lacustrine Fringe)
☑ The wetland is on a slop☑ The water flows througseeps. It may flow substantial	pe (slope can be very gradual th the wetland in one direction surface, as sheetflow, or in a	I), on (unidirectional) and usually comes from swale without distinct banks,
\square NO – go to 5		\boxtimes YES – The wetland class is Slope
☐The unit is in a valley, o stream or river,	r stream channel, where it g	ets inundated by overbank flooding from that
1	NO - go to 2 1.1 Is the salinity of the water NO - Saltwater Tidal For If your wetland can be classed is Saltwater Tidal Fringer score functions for estuar. The entire wetland unit is and surface water runoff at MO - go to 3 If your wetland can be classed Does the entire wetland unit is plants on the surface at plants on the surface at Mo - go to 4 Does the entire wetland unit is on a slope Mo - go to 4 Does the entire wetland unit is on a slope Mo - go to 5 NOTE: Surface water does shallow depressions or be deep). Does the entire wetland unit is in a valley, on stream or river,	NO – Saltwater Tidal Fringe (Estuarine) If your wetland can be classified as a Freshwater Tidal is Saltwater Tidal Fringe it is an Estuarine wetland a score functions for estuarine wetlands. The entire wetland unit is flat and precipitation is the and surface water runoff are NOT sources of water to NO – go to 3 If your wetland can be classified as a Flats wetland, use Does the entire wetland unit meet all of the following The vegetated part of the wetland is on the shores of plants on the surface at any time of the year) at least plants on the surface at any time of the year) at least NO – go to 4 NO – go to 4 PYES – The wetland of the wetland is on a slope (slope can be very gradual). The water flows through the wetland in one direction seeps. It may flow subsurface, as sheetflow, or in a The water leaves the wetland without being important NO – go to 5 NOTE: Surface water does not pond in these type of shallow depressions or behind hummocks (depression deep). Does the entire wetland unit meet all of the following The unit is in a valley, or stream channel, where it g

	□NO – go to 6 NOTE : The Riverine unit can contain dep flooding	\square YES – The wetland class is Riverine ressions that are filled with water when the river is not
6.	1 6 1	c depression in which water ponds, or is saturated to the his means that any outlet, if present, is higher than the interior
	□ NO – go to 7	\square 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 natu outlet.		
	□ NO – go to 8	\square 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	HGM class to
being rated	use in rating
Slope + Riverine	Riverine
Slope + Depressional	Depressional
Slope + Lake Fringe	Lake Fringe
Depressional + Riverine along stream	Depressional
within boundary of depression	
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.

Wetland name or number: Wetland A

SLOPE WETLANDS	
Water Quality Functions - Indicators that the site functions to improve water quality	
S 1.0. Does the site have the potential to improve water quality?	
S 1.1. Characteristics of the average slope of the wetland: (a 1% slope has a 1 ft vertical drop in elevation for every	
100 ft of horizontal distance)	
☐ Slope is 1% or less points = 3	1
☐ Slope is > 1%-2% points = 2	
Slope is > 2%-5% points = 1	
☐ Slope is greater than 5% points = 0	
S 1.2. The soil 2 in below the surface (or duff layer) is true clay or true organic (use NRCS definitions): Yes = $3 \square$ No = $0 \square$	0
S 1.3. Characteristics of the plants in the wetland that trap sediments and pollutants:	
Choose the points appropriate for the description that best fits the plants in the wetland. <i>Dense means you</i>	
have trouble seeing the soil surface (>75% cover), and uncut means not grazed or mowed and plants are higher than 6 in.	
☐ Dense, uncut, herbaceous plants > 90% of the wetland area points = 6	0
☐ Dense, uncut, herbaceous plants > ½ of area points = 3	Wetland mostly mowed
☐ Dense, woody, plants > ½ of area points = 2	mowed
☐ Dense, uncut, herbaceous plants > ¼ of area points = 1	
 ✓ Does not meet any of the criteria above for plants ✓ Does not meet any of the criteria above for plants 	
	1
Total for S 1 Add the points in the boxes above	1
Rating of Site Potential If score is: \Box 12 = H \Box 6-11 = M \boxtimes 0-5 = L Record the rating on	the first page
S 2.0. Does the landscape have the potential to support the water quality function of the site?	
S 2.1. Is > 10% of the area within 150 ft on the uphill side of the wetland in land uses that generate pollutants?	1
S 2.1. Is > 10% of the area within 150 ft on the uphill side of the wetland in land uses that generate pollutants? \square Yes = 1 \square No = 0	1
	_
⊠Yes = 1 □ No = 0	1
$ extrm{\boxtimes Yes = 1$} extrm{$\square$ No = 0$}$ S 2.2. Are there other sources of pollutants coming into the wetland that are not listed in question S 2.1?	_
S 2.2. Are there other sources of pollutants coming into the wetland that are not listed in question S 2.1? Other sources: <u>livestock</u>	1 2
	1 2
S 2.2. Are there other sources of pollutants coming into the wetland that are not listed in question S 2.1? Other sources: livestock Total for S 2 Rating of Landscape Potential If score is: ⊠1-2 = M □0 = L S 3.0. Is the water quality improvement provided by the site valuable to society?	1 2
S 2.2. Are there other sources of pollutants coming into the wetland that are not listed in question S 2.1? Other sources: livestock Total for S 2 Add the points in the boxes above Rating of Landscape Potential If score is: ⊠1-2 = M □0 = L Record the rating on	1 2
S 2.2. Are there other sources of pollutants coming into the wetland that are not listed in question S 2.1? Other sources: livestock Total for S 2 Add the points in the boxes above Rating of Landscape Potential If score is: S1-2 = M □0 = L S 3.0. Is the water quality improvement provided by the site valuable to society? S 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, lake, or marine water that is on the	1 2 the first page
S 2.2. Are there other sources of pollutants coming into the wetland that are not listed in question S 2.1? Other sources: livestock Total for S 2 Rating of Landscape Potential If score is: S1-2 = M □0 = L Record the rating on S 3.0. Is the water quality improvement provided by the site valuable to society? S 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? S 3.2. Is the wetland in a basin or sub-basin where water quality is an issue? At least one aquatic resource in the basin is on the 303(d) list. S 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality? Answer YES	1 2 the first page
S 2.2. Are there other sources of pollutants coming into the wetland that are not listed in question S 2.1? Other sources: livestock Total for S 2 Add the points in the boxes above Rating of Landscape Potential If score is: S1-2 = M □0 = L Record the rating on S 3.0. Is the water quality improvement provided by the site valuable to society? S 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? □Yes = 1 □ No = 0 S 3.2. Is the wetland in a basin or sub-basin where water quality is an issue? At least one aquatic resource in the basin is on the 303(d) list. □Yes = 1 □ No = 0 S 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 for the basin in which unit is found. □Yes = 2 □ No = 0	1 2 the first page 0 1
S 2.2. Are there other sources of pollutants coming into the wetland that are not listed in question S 2.1? Other sources: livestock Total for S 2 Rating of Landscape Potential If score is: S1-2 = M □0 = L Record the rating on S 3.0. Is the water quality improvement provided by the site valuable to society? S 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? S 3.2. Is the wetland in a basin or sub-basin where water quality is an issue? At least one aquatic resource in the basin is on the 303(d) list. S 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality? Answer YES	1 2 the first page 0 1 1 2

Wetland name or number: Wetland A

SLODE WETLANDS		
SLOPE WETLANDS Hydrologic Functions - Indicators that the site functions to reduce flooding and stream erosion		
S 4.0. Does the site have the potential to reduce flooding and stream erosion?		
S 4.1. Characteristics of plants that reduce the velocity of surface flows during storms: Choose the points appropriate		
for the description that best fits conditions in the wetland. Stems of plants should be thick enough (usually > $1/8_8$ in), or dense enough, to remain erect during surface flows.		
☐ Dense, uncut, rigid plants cover > 90% of the area of the wetland points = 1	Wetland mostly mowed	
☑ All other conditions points = 0		
Rating of Site Potential If score is: $\Box 1 = M \boxtimes 0 = L$ Record the rating on a	the first page	
S 5.0. Does the landscape have the potential to support the hydrologic functions of the site?		
S 5.1. Is more than 25% of the area within 150 ft upslope of wetland in land uses or cover that generate excess surface		
runoff? \boxtimes Yes = 1 \square No = 0	1	
Rating of Landscape Potential If score is: $\boxtimes 1 = M \square 0 = L$ Record the rating on		
S 6.0. Are the hydrologic functions provided by the site valuable to society?		
S 6.1. Distance to the nearest areas downstream that have flooding problems:		
oxtimes The sub-basin immediately down-gradient of site has flooding problems that result in damage to human or		
natural resources (e.g., houses or salmon redds) points = 2	2	
\square Surface flooding problems are in a sub-basin farther down-gradient points = 1		
☐ No flooding problems anywhere downstream points = 0		
S 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan?		
\Box Yes = 2 \boxtimes No = 0	0	
Total for S 6 Add the points in the boxes above	2	

NOTES and FIELD OBSERVATIONS:

Rating of Value If score is: $\square 2-4 = H \square 1 = M \square 0 = L$

Record the rating on the first page

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 or more than 10% of the unit if it is smaller than 2.5 ac. Add the number of structures checked. ☐ Aquatic bed 4 structures or more: points = 4 3 structures: points = 2 0 ☐ Scrub-shrub (areas where shrubs have > 30% cover) 2 structures: points = 1 ☐ Forested (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/ground-cover) that each cover 20% within the Forested polygon 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 or ¼ 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 = 1 1 1 type present: points = 0 ☐ Permanently flowing stream or river in, or adjacent to, the wetland ☐ Seasonally flowing stream in, or adjacent to, the wetland ☐ 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 cover at least 10 ft². 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, Canadian thistle 1 If you counted: \square > 19 species points = 2points = 1 \Box < 5 species points = 0 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. 0 None = 0 points \square Low = 1 point ☐ **Moderate** = 2 points All three diagrams in this row are \square **HIGH** = 3points

Wetland name or number: Wetland A		
H 1.5. Special habitat features:		
Check the habitat features that are present in the wetland. The number of checks is to	he 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 e	xtends at least 3.3 ft (1 m)	
over a stream (or ditch) in, or contiguous with the wetland, for at least 33 ft (10 m		1
\square Stable steep banks of fine material that might be used by beaver or muskrat for	denning (> 30 degree	1
slope) OR signs of recent beaver activity are present (cut shrubs or trees that he	ave 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 for list of	
strata).		
Total for H 1 Add the	points in the boxes above	3
Rating of Site Potential If score is: \Box 15-18 = H \Box 7-14 = M \boxtimes 0-6 = L	Record the rating on t	he 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 that directly abuts wetland unit).		
Calculate: % undisturbed habitat + [(%moderate and low intensity land uses)/2] = 9%	5 + (24%/2) = 21%	
If total accessible habitat is:		
$\square > 1/3$ (33.3%) of 1 km Polygon	points = 3	2
	points = 2	
☐ 10-19% of 1 km Polygon	points = 1	
☐ < 10% of 1 km Polygon	points = 0	
H 2.2. Undisturbed habitat in 1 km Polygon around the wetland.	·	
Calculate: % undisturbed habitat + [(%moderate and low intensity land uses)/2 = 20%	5 + (55%/2) = 44.5%	
☐ Undisturbed habitat > 50% of Polygon	points = 3	
☐ Undisturbed habitat 10-50% and in 1-3 patches	points = 2	1
☐ Undisturbed habitat 10-50% and > 3 patches	points = 1	
☐ Undisturbed habitat < 10% of 1 km Polygon	points = 0	
H 2.3. Land use intensity in 1 km Polygon: If		
□ > 50% of 1 km Polygon is high intensity land use	points = (- 2)	0
	points = 0	
	points in the boxes above	3
Rating of Landscape Potential If score is: □4-6 = H ⊠1-3 = M □<1 = L	Record the rating on th	e 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? <i>Choo</i>	se only the highest score	
that applies to the wetland being rated.	nainte 3	
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 anima	on the state or federal lists)	
☐ It provides habitat for Threatened of Endangered species (any plant of anima ☐ It is mapped as a location for an individual WDFW priority species	is the state of reactarilists)	1
☐ It is a Wetland of High Conservation Value as determined by the Department	of Natural Resources	-
☐ It has been categorized as an important habitat site in a local or regional com		
in a Shoreline Master Plan, or in a watershed plan		
Site has 1 or 2 priority habitats (listed on next page) within 100 m	noints = 1	

Rating of Value If score is: $\Box 2 = H \boxtimes 1 = M \Box 0 = L$

Record the rating on the first page

points = 0

 $\hfill \square$ Site does not meet any of the criteria above

Wetland name or number: Wetland A

WDFW Priority Habitats

<u>Priority habitats listed by WDFW</u> (see complete descriptions of WDFW priority habitats, and the counties in which they can be found, in: Washington Department of Fish and Wildlife. 2008. Priority Habitat and Species List. Olympia, Washington. 177 pp. http://wdfw.wa.gov/publications/00165/wdfw00165.pdf or access the list from here: http://wdfw.wa.gov/conservation/phs/list/)

Count how many of the following priority habitats are within 330 ft (100 m) of the wetland unit: **NOTE:** This question is independent of the land use between the wetland unit and the priority habitat.

\square Aspen Stands: Pure or mixed stands of aspen greater than 1 ac (0.4 ha).
\square Biodiversity Areas and Corridors : Areas of habitat that are relatively important to various species of native fish and wildlife (<i>full descriptions in WDFW PHS report</i>).
\square Herbaceous Balds: Variable size patches of grass and forbs on shallow soils over bedrock.
\Box Old-growth/Mature forests: <u>Old-growth west of Cascade crest</u> – 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) dbh or > 200 years of age. <u>Mature forests</u> – 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.
\square Oregon White Oak: Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak component is important (<i>full descriptions in WDFW PHS report p. 158 – see web link above</i>).
\square Riparian : The area adjacent to aquatic systems with flowing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other.
□ Westside Prairies: Herbaceous, non-forested plant communities that can either take the form of a dry prairie or a wet prairie (<i>full descriptions in WDFW PHS report p. 161 – see web link above</i>).
☐ 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.
□ Nearshore : Relatively undisturbed nearshore habitats. These include Coastal Nearshore, Open Coast Nearshore, and Puget Sound Nearshore. (full descriptions of habitats and the definition of relatively undisturbed are in WDFW report – see web link on previous page).
\Box 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.
\Box Cliffs: Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation.
\Box Talus: Homogenous areas of rock rubble ranging in average size 0.5 - 6.5 ft (0.15 - 2.0 m), composed of basalt, and or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.
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.

Note: All vegetated wetlands are by definition a priority habitat but are not included in this list because they are addressed elsewhere.

Presumed based on landcover, but not visually confirmed Wetland name or number: Wetland A

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?	
\square 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
\square Yes = Category I \square No - Go to SC 1.2	
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	Cat. I
less than 10% cover of non-native plant species. (If non-native species are <i>Spartina</i> , see page 25)	
☐ 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 has at least two of the following features: tidal channels, depressions with open water,	
or contiguous freshwater wetlands.	
SC 2.0. Wetlands of High Conservation Value (WHCV)	
SC 2.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High	
Conservation Value? \boxtimes Yes – Go to SC 2.2 \square No – Go to SC 2.3	
SC 2.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value?	
$\underline{\text{http://www.dnr.wa.gov/NHPwetlandviewer}} \qquad \qquad \Box \text{Yes} = \textbf{Category} \Box \text{No} = \textbf{Not a WHCV}$	Cat. I
SC 2.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland?	
http://file.dnr.wa.gov/publications/amp_nh_wetlands_trs.pdf	
\Box Yes – Contact WNHP/WDNR and go to SC 2.4 \Box No = Not a WHCV SC 2.4. Has WDNR identified the wetland within the S/T/R as a Wetland of High Conservation Value and listed it on	
their website?	
<u> </u>	
SC 3.0. Bogs	
Does the wetland (or any part of the unit) meet both the criteria for soils and vegetation in bogs? <i>Use the key</i>	
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? \Box Yes – Go to SC 3.3 \boxtimes 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? \Box Yes – Go to SC 3.3 \boxtimes No = Is not a bog SC 3.3. Does an area with peats or mucks have more than 70% cover of mosses at ground level, AND at least a 30%	Cat. I
cover of plant species listed in Table 4? \Box Yes = Is a Category I bog \Box No – Go to SC 3.4	Cat. I
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.	
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 = Is a Category I bog ☐ No = Is not a bog	

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? <i>If you answer YES you will still need to rate the wetland based on its functions.</i> □ 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).	Cat. I
☐Yes = Category I ☐ No = Not a forested wetland for this section	
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) ☐ Yes - Go to SC 5.1 ☑ No = Not a wetland in a coastal lagoon 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 on p. 100). ☐ 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 ft²) ☐ Yes = Category I ☐ No = Category II	Cat. 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	Cat I
 □ Ocean Shores-Copalis: Lands west of SR 115 and SR 109 □ Yes – Go to SC 6.1 ⊠ No = not an interdunal wetland for rating 	Cat. II
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 for the three aspects of function)? \[\textstyle \text{Yes} = \text{Category I} \text{No} - \text{Go to SC 6.2} \] SC 6.2. Is the wetland 1 ac or larger, or is it in a mosaic of wetlands that is 1 ac or larger?	Cat. III
Yes = Category II □ No − Go to SC 6.3 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 − Go to SC 6.3 SC 6.3. Is the unit 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

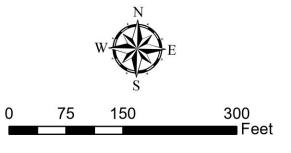
Wetland Rating Figure 1. Cowardin Classifications







Cowardin plant classes – D1.3, H1.1, H1.4. Rating boundaries are estimated and not to scale. Forest and scrub-shrub class less than 10%.



Wetland Rating Figure 2. Plant Structure



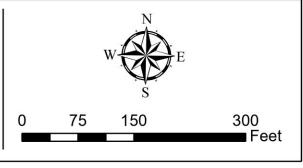


Dense Woody Vegetation (>75% cover)

Does not meet criteria (mowed or sparse)

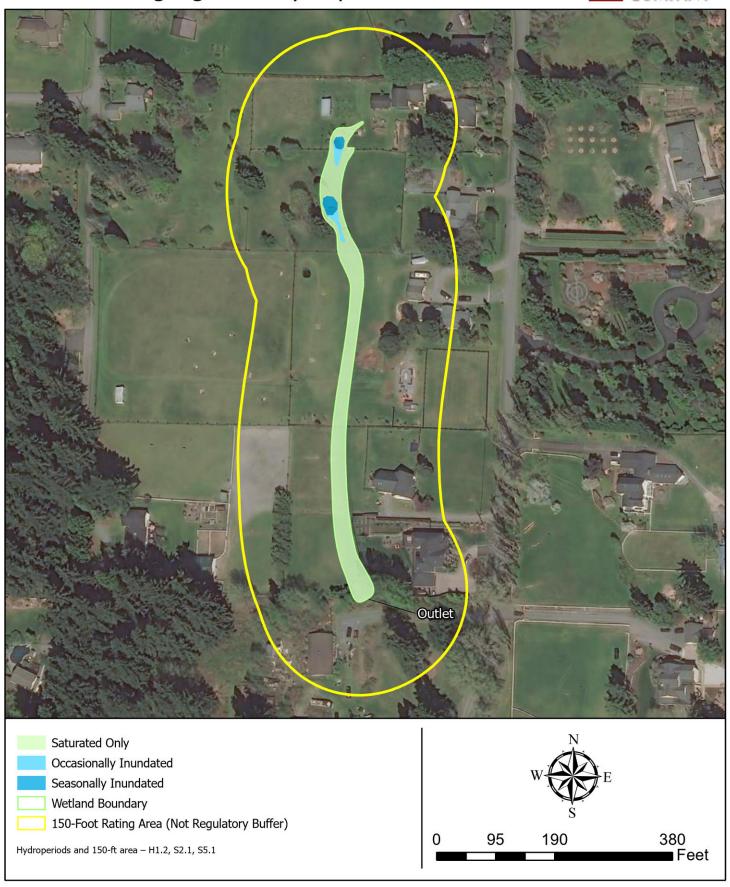
Wetland Boundary

Structure of plants in wetland at person height or below - S4.1. All herbaceous vegetation is dense, but mowed.



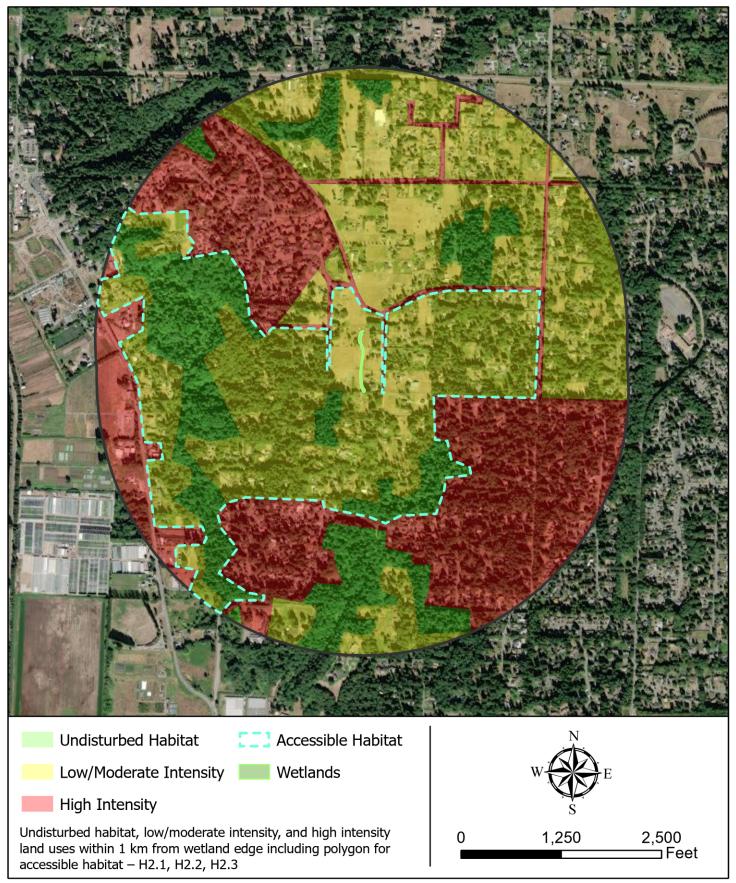
Wetland Rating Figure 3. Hydroperiods





Wetland Rating Figure 4. Land Use Intensity





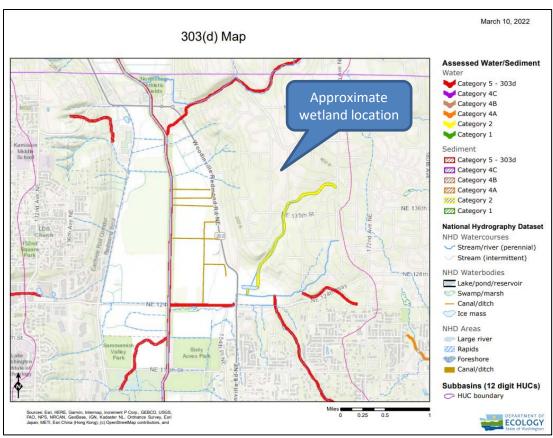


Figure 5. Screen-capture of 303(d) listed waters in basin – S3.1, S3.2

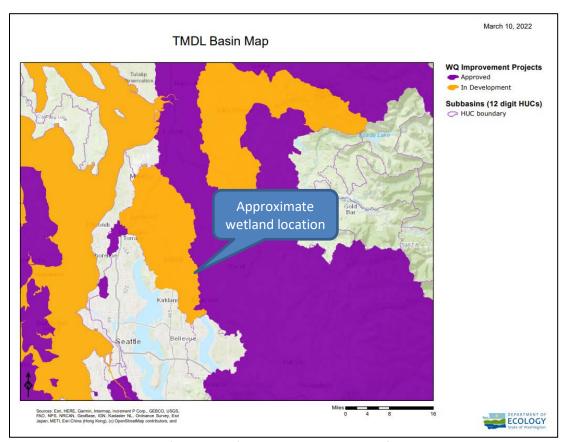


Figure 6. Screen-capture of TMDL list for WRIA in which unit is found – \$3.3