

July 18, 2022

Mr. Chris Beale, Senior Planner City of Puyallup 333 S Meridian Puyallup, WA 98371

Re: Normandy Heights Plat Wetland and Fish and Wildlife Habitat Assessment Report—Third Party Review

Dear Chris:

Confluence Environmental Company (Confluence) has reviewed the wetland and fish and wildlife habitat assessment report (the critical areas study report) submitted by Soundview Consultants (Soundview) for the Normandy Heights Plat project (PLPMP20220090) located at 2007 Shaw Road, Puyallup Washington (Parcel 0420354039) (Soundview 2022).

COMPLETENESS REVIEW

Confluence found that the critical areas study report was incomplete according to the regulations outlined in Puyallup Municipal Code (PMC) Chapter 21.06 for Critical Areas Regulations.

The critical areas report is missing a discussion about the proposed stormwater plan. The critical areas study will need to be updated to include a discussion of the proposed stormwater plan or submit a separate stormwater report.

TECHNICAL REVIEW

Confluence conducted a site visit to the project property on July 5, 2022. During this site visit, we evaluated the location of the boundaries of Wetland A and Stream Z, as described in the report prepared by Soundview.

Methods

In order to verify the findings in the report, Confluence conducted a brief wetland and stream reconnaissance on the property. This section describes the methods used to identify the presence or absence of wetlands.

For this reconnaissance effort, Confluence evaluated the presence or absence of hydrophytic vegetation, hydric soil, and wetland hydrology indicators at soil probe locations across the site



to determine if the area represented by the soil probe was wetland or upland. Soil probe locations and presence or absence of hydric soil and wetland hydrology indicators were recorded using GPS.

Confluence used the PLANTS Database (NRCS 2022) to provide consistency in scientific naming and the 2018 National Wetland Plant List (Corps 2020) to determine the wetland indicator status of plants.

Confluence used Anderson et al. (2016) to determine the ordinary high water mark (OHWM) of Stream Z in the vicinity of the study area.

Results

Wetlands

During the site visit, Confluence used a visual assessment to verify soil, vegetation, and hydrology conditions in the vicinity of Data Points (DP)-1 through DP-4 and flags A-1 through A-7 at Wetland A on the project property, and at the the OHWM for Flags Z-1 thought Z-10.

During our field investigation, we observed wetland characteristics east of the delineation boundary flags A-1 and A-2. Additionally, we found an old wetland delineation boundary flag attached to the northeastern site boundary fence line at Flag Z-5. The flag was not labeled with a date or company name. Confluence dug a soil probe labeled CEC-1 on the south side of the stream between Z-5 and Z-6 (Figure 1). Confluence observed several plant species of facultative (FAC) and obligate (OBL) listings, including the following: skunk cabbage (*Symplocarpus foetidus*) (OBL), piggy-back plant (*Tolmiea menziesii*) (FAC), water-parsley (*Oenanthe sarmentosa*) (OBL), salmonberry (*Rubus spectabilis*) (FAC), and lady fern (*Athyrium filix-femina*) (FAC). Presence of these species meets the hydrophytic vegetation criterion. Saturated soils were observed at 9-10 inches below ground surface, with groundwater coming into the test pit at 10 inches, thus meeting the wetland hydrology criterion. Soil in the top layer (0-11 inches) was as 10YR 2/1 silt loam.

www.confenv.com page 2 of 7



DEER CREEK - EXISTING CONDITIONS MAP

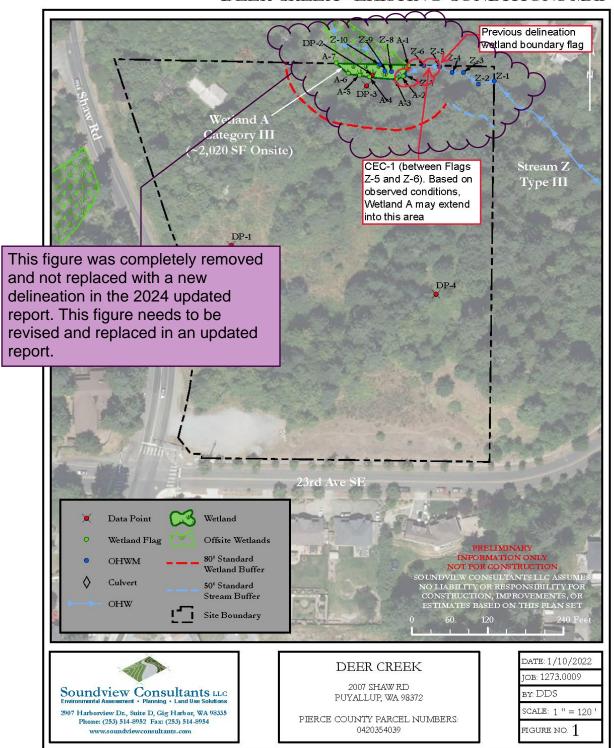


Figure 1. Location of CEC-1 and possible wetland area

www.confenv.com page 3 of 7



Confluence did not dig past 11 inches, but assumed that A11—Depleted Below Dark Surface or A12—Thick Dark Surface are possible given the 10YR 2/1 soil color and depth. Otherwise Confluence agrees with the wetland boundary between Flags A-2 through A-7 and the approximated off-site boundary.

Wetland Determination Forms (Appendix E)

Wetland determination forms for Wetland A's DP-1U and DP-2W had incorrect indicator statuses on their vegetation listings. For the DP-2W Wetland Determination Form, vine maple (*Acer circinatum*), piggy-back plant, and field horsetail (*Equisetum arvense*) were all rated as facultative upland (FACU) but according to the Corps National Plant List are rated as FAC. Additionally Scotch broom (*Cytisus scoparius*) was listed as FACU on the DP-1U Wetland Determination Form and it is not listed on the Corps National Plant List. Given all the species are all considered FAC (excluding Scotch broom), the correct indicator status for each species would not impact the Dominance Test currently listed on the Wetland Determination Forms but the forms should still be updated to reflect the correct indicator status in.

Wetland Rating Forms (Appendix F)

Wetland rating form for Wetland A states that for Section H1.1 Wetland A is classified within the Cowardin classes as a scrub-shrub. However, the Pierce County (2022) aerials series clearly shows Wetland A as a scrub-shrub and forested wetland, though the forested portion of the Wetland occurs mostly on the off-site area. Therefore, the Cowardin classes for Wetland A should be scrub-shrub and forested, with the forested class containing 3 out of 5 strata, for a total of 2 points. Section H1.2 included "saturated only" for types of hydroperiods present but with the classification of the on-site Stream Z, the "permanently flowing stream or river in, or adjacent to, the wetland" should also be included to this section for a total of 1 point. Lastly, H1.4 only included the single Cowardin classification of scrub shrub identified in Section H1.1 and does not include the forested wetland classification. Therefore, the section H1.4 interspersion of habitats should have a total of 1 point. Section H2.1 was calculated incorrectly, per the rating manual (Hruby 2014), "Accessible habitat is defined as the amount of habitat that can be reached from the wetland without crossing a human land use (e.g., roads, fields, and development). Some lower intensity human land uses such as parks do not completely isolate a habitat. As a result, low and moderate intensity land uses are not completely discounted as accessible habitat." So, the "undisturbed habitat" polygon just east of the parcel needs to include in the accessible habitat calculation, because there is no "human disturbance" between it and the wetland. Revisions to the habitat sections of the wetland rating forms for Wetland A will result in changes to the wetland score but may not change overall rating or standard buffer.

www.confenv.com page 4 of 7



Streams

Flags Z-1 through Z-10 appear to mark the centerline of Stream Z and not the OHWM. Confluence agrees with the placement of the flags, marking the stream centerline. The report describes the stream as having an average OHWM of less than 2 feet in width. However, we could not confirm the widths because OHWM flags were not placed. In areas where we measured OHWM, including locations where Z flags were hung, widths were greater than 2 feet. Therefore, we disagree with the width of the OHWM.

However, we do disagree with the Type III stream tying. It should be noted that WDFW does not use man-made fish barriers, such as culverts, as rationale to determine if a stream is fish bearing or not. Based on our analysi, Stream Z meets the WAC 222-16-031 definition of fish-bearing: streams with an OHWM of 2 feet or greater and a gradient of 16% or less. Due to the designation of Deer Creek as a Type II stream, all reaches of the creek are required to meet a 100-foot buffer.

Because the stream centerline was flagged and not the OHWM, it is also unclear in the report if the stream buffer shown in Figure 1 is a 50-foot buffer from the stream centerline (which what was flagged and presumably surveyed) or a 50-foot buffer from an assumed 2-foot OHWM. Please clarify if the buffer is from the centerline or an assumed 2-foot OHWM. Photos of the stream channel with pin flags marking the OHWM would be helpful and may result in Confluence not having to conduct a second site visit to confirm the OHWM delineation.

Other Information

The plat drawings show a 60-foot reduced buffer. However, there is no discussion in the critical areas report about this proposed reduction and how the project would meet the criteria for the reduced buffer.

SUMMARY

In summary, we found several instances of conflicting information in the 2022 critical areas study report. We recommend that Soundview update the report as follows to address the issues detailed in this letter:

- Update the critical areas report to include a discussion about the stormwater management or submit a sperate stormwater management report.
- Revise the wetland determination data forms in Appendix E to correct the vegetation indicator statuses.

www.confenv.com page 5 of 7



- Reassess and revise the delineation of Wetland A to include the wetland area to the northeast of the stream and update the field-flagging to extend to the site boundary and wetland boundary flag attached to the fence. Update the report and appendices C, D, and E accordingly.
- Update the Appendix F wetland rating form sections H1.1 H1.2 and H1.4 for Wetland A as described above. Please note that this is may also result in an increase in wetland buffer widths.
- Update the report to provide data on OHWM widths and clarify if the buffer was measured from the centerline or the OHWM. Please include photos showing the OHWM.
- Update the report and change the stream typing from Type III to Type II.
- Update site plans to depict changes in wetland size, wetland category, stream type, and associated buffers.

Respectfully yours,

KERRIE McARTHUR, PWS, CERP, FP-C

-Mc Sthu

Managing Senior Biologist 206.999.6201

kerrie.mcarthur@confenv.com

ATTACHMENTS

Reviewed Wetland Determination Forms Reviewed Wetland Rating Forms

REFERENCES

Anderson, P.S., S. Meyer, P. Olson, and E. Stockdale. 2016. Determining the ordinary high water mark for Shoreline Management Act compliance in Washington State. October 2016 final review. Washington State Department of Ecology, Shorelands & Environmental Assistance Program, Lacey, Washington. Ecology Publication No. 16-06-029.

www.confenv.com page 6 of 7



- Corps (U.S. Army Corps of Engineers). 2020. National wetland plant list, version 3.5 [online document]. Corps Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory, Hanover, New Hampshire. Available at: https://wetland-plants.sec.usace.army.mil/ nwpl_static/v34/home/home.html (accessed July 5, 2022).
- Hruby, T. (2014). Washington State Wetland Rating System for Western Washington: 2014 Update. (Publication #14-06-029). Olympia, WA: Washington Department of Ecology.
- NRCS (National Resources Conservation Service). 2022. The PLANTS database [online database]. U.S. Department of Agriculture, NRCS, National Plant Data Team, Greensboro, North Carolina. Available at: https://plants.sc.egov.usda.gov/java/ (accessed July 5, 2022).
- Soundview (Soundview Consultants). 2022. Wetland and fish and wildlife habitat assessment report, Deer Creek. Prepared for RM Homes, Puyallup, Washington by Soundview Consultants, Gig Harbor, Washington.
- Pierce County. 2022. Pierce County Public GIS [online database]. Pierce County, Tacoma, Washington. Available at: https://matterhornwab.co.pierce.wa.us/publicgis/ (accessed July 5, 2022).

J:\C_Puyallup_001395\001395.007_Task 7_Normandy Heights Plat\Report

www.confenv.com page 7 of 7

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

Project/Site: 1273.0009 - Deer Creek	(City/Cou	unty: Puya	allup/Pierce	Sampling Date: 1/5	/22
					Sampling Point: DF	
Investigator(s): Ryan Krapp and Mae Ancheta						
					ncave Slope (%): 2
Subregion (LRR): A2				Long: -122.252		
Soil Map Unit Name: Indianola loamy sand, 5 to 15				NWI clas		
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrology sign					" present? Yes ⊠ No [٦
Are Vegetation, Soil, or Hydrology natu				eeded, explain any answ		_
SUMMARY OF FINDINGS – Attach site map						res, etc.
Hydrophytic Vegetation Present? Yes ⊠ No ☐ Hydric Soil Present? Yes ☐ No ☒		Is	the Samp	pled Area		
Wetland Hydrology Present? Yes ☐ No ☒		w	ithin a We	etland? Yes [□ No ⊠	
Remarks:	1		D.	t callegad in the	wast control postion of the	o subject
Not all three wetland criteria met; only hydro property in a low topographic depression.	phytic vege	tation p	resent. Da	ata was collected in the	west-central portion of the	e subject
VEGETATION – Use scientific names of plan	ts.		***************************************			
The state of the s		Domina	ant Indicat	tor Dominance Test	worksheet:	
Tree Stratum (Plot size: 30 ft)	% Cover	Specie	es? Statu	Number of Dominic		
1				That Are OBL, FA	CW, or FAC: 2	(A)
2				Total Number of D	0	(D)
3		-		Species Across Al	I Strata: 3	(B)
Sapling/Shrub Stratum (Plot size: 30 ft)	0	= Tota	al Cover	Percent of Domina That Are OBL, FA		(A/B)
1. Cytisus scoparius	10	Yes	FAC	Prevalence Index	worksheet:	
2. Rubus armeniacus	5	Yes	FAC	Total % Cover	r of: Multiply by	<u>r:</u>
3.				OBL species	x 1 =	
4				FACW species	x 2 =	
5					x 3 =	
Herb Stratum (Plot size: 10 ft)	15	= Tota	al Cover		x 4 =	
1. Agrostis capillaris	70	Yes	FAC	UPL species		(D)
2 Rubus ursinus	15	No	FAC	U Column Totals: _	(A)	(B)
3. Dactylis glomerata	10	No	FAC	U Prevalence I	ndex = B/A =	
4. Cirsium arvense	3	No	FAC	Hydrophytic Veg	etation Indicators:	
5					Hydrophytic Vegetation	
6				✓ Dominance Te		
7		-		Prevalence Inc		nadina
8					Adaptations ¹ (Provide sup marks or on a separate she	
9.			***************************************	─	Vascular Plants ¹	
10.		-		─ □ Problematic H	ydrophytic Vegetation1 (Ex	plain)
11	98	= Tota	al Cover		ric soil and wetland hydrolo s disturbed or problematic.	gy must
Woody Vine Stratum (Plot size: 30 ft)				be present, unless	disturbed of problematic.	
1				Hydrophytic		
2				Vegetation	Vac 🖾 Na 🖂	
% Bare Ground in Herb Stratum 2	0	_ = Tota	al Cover	Present?	Yes 🗵 No 🗌	
Pomarke:	accale (I	De:::	T	at due to the core	and of EAC associate	minal of
Hydrophytic vegetation criteria met thr upland areas.	ough the	חווווטם	iance re	ssi due to the preser	ice of FAC species ty	picai Ui

Sampling Point: DP-1U

1 Tome Desi	cription: (Descri			caca to aocai		aioacoi	OI COIIIIII	n the ab	sence of in	iuicators.	.)	
Depth	Matrix	(ox Feature							
(inches)	Color (moist)	%	Colo	r (moist)	%	Type ¹	_Loc ² _	Textur	<u>e</u>	R	Remarks	
0 - 10	10YR 3/2	100	_		-	_	-	SaLo	Sa	ndy loan	n	
10 - 15+	10YR 3/3	100	-		_	-	-	SaLo	Sa	ndy loan	n	
***************************************	***************************************	******			-						***************************************	
	-						-	-				
		*******************************								·····		
	****				_							
			-			-		-				
***************************************	***************************************						***************************************					
	3 000000000000000000000000000000000000						***************************************					
	oncentration, D=D						ed Sand G	rains.	² Location	n: PL=Poi	re Lining, M=Ma	ıtrix.
Hydric Soil	Indicators: (App	licable to	all LRR	s, unless othe	rwise not	ed.)		In	dicators fo	r Probler	matic Hydric So	oils³:
☐ Histosol				Sandy Redox (S] 2 cm Muc	ck (A10)		
Committee and the committee of the commi	pipedon (A2)			Stripped Matrix					Red Pare			
☐ Black Hi				oamy Mucky N			MLRA 1)				Surface (TF12)	
_ , ,	n Sulfide (A4)	200 (111)		oamy Gleyed I)			Other (Ex	plain in R	Remarks)	
	d Below Dark Surfa ark Surface (A12)	ace (ATT)		Depleted Matrix Redox Dark Sur				310	adicators of	hydrophy	rtic vegetation a	nd
	lucky Mineral (S1)			Depleted Dark S		7)		- 11			nust be present	
	leyed Matrix (S4)			Redox Depress		.,				And the second second	problematic.	,
	Layer (if present)	:						T				
Туре: No												
Depth (in	ches):							Hvdri	ic Soil Pres	sent? Y	'es □ Nc ×	
Remarks:								1.7			30 E 110 E	
	soil criteria me	F										
INO Hydric s	son criteria me	ι.										
1												
HYDROLO	GY											
	GY drology Indicator	rs:										
Wetland Hy	drology Indicator		red; che	eck all that appl	(y)				Secondary	Indicator	rs (2 or more rec	uired)
Wetland Hy Primary India	drology Indicator cators (minimum o		red; che			es (B9) (e	xcept MLF				s (2 or more rec	
Wetland Hy Primary India	drology Indicator cators (minimum o Water (A1)		red; che	☐ Water-Stai	ined Leave		xcept MLF		☐ Water-	Stained L	eaves (B9) (ML	
Wetland Hy Primary India Surface High Wa	drology Indicator cators (minimum o Water (A1) ter Table (A2)		red; che	☐ Water-Stai	ined Leave A, and 4B		xcept MLF	RA	☐ Water-	Stained Lo	eaves (B9) (ML	
Wetland Hy Primary India ☐ Surface ☐ High Wa ☐ Saturation	drology Indicator cators (minimum o Water (A1) ter Table (A2) on (A3)			☐ Water-Stai	ined Leave A, and 4B (B11))	xcept MLF	RA	☐ Water- 4A, ☐ Draina	Stained Lo and 4B) ge Patterr	eaves (B9) (ML ns (B10)	
Wetland Hy Primary India Surface High Wa Saturatio Water M	drology Indicator cators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1)			☐ Water-Stai 1, 2, 4/ ☐ Salt Crust ☐ Aquatic Inv	ined Leave A, and 4B (B11) vertebrate	s (B13)	xcept MLF	RA	☐ Water	Stained Lo and 4B) ge Patterr ason Wat	eaves (B9) (ML ns (B10) ter Table (C2)	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatio Water M	drology Indicator cators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2)			Water-Stai 1, 2, 4/ Salt Crust Aquatic Inv Hydrogen	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc	s (B13) lor (C1)		RA	☐ Water	Stained Long and 4B) ge Patterreason Wattion Visible	eaves (B9) (ML ns (B10) ter Table (C2) e on Aerial Imaç	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep	drology Indicator cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3)			☐ Water-Stai 1, 2, 4/ ☐ Salt Crust ☐ Aquatic Inv	ined Leave A, and 4B (B11) vertebrate Sulfide Oc	s (B13) lor (C1) res along	Living Roo	RA ots (C3)	Water- 4A, Drainag Dry-Se Saturat Geomo	Stained Lo and 4B) ge Patterreason Wat tion Visible orphic Pos	eaves (B9) (ML ns (B10) ter Table (C2) e on Aerial Imag sition (D2)	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep	drology Indicator cators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2)			☐ Water-Stai 1, 2, 4,4 ☐ Salt Crust ☐ Aquatic Inv ☐ Hydrogen	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc Rhizosphei of Reduce	s (B13) lor (C1) es along d Iron (C4	Living Roo	RA	Water- 4A, Drainag Dry-Se Saturat Geomo	Stained Long and 4B) ge Patterreason Wattion Visible orphic Poswar Aquitard	ns (B10) ter Table (C2) e on Aerial Imag sition (D2)	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma	drology Indicator cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) sosits (B3) t or Crust (B4) osits (B5)			Water-Stai 1, 2, 4,4 Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc Rhizospher of Reduce n Reduction	s (B13) lor (C1) es along d Iron (C4 on in Tilled	Living Roo b) d Soils (C6	RA ots (C3)	Water- 4A, Drainag Dry-Se Saturat Geomo Shallov FAC-N	Stained Lo and 4B) ge Pattern ason Wat tion Visible orphic Pos w Aquitand eutral Tes	ns (B9) (ML ns (B10) ter Table (C2) e on Aerial Imag sition (D2) d (D3) st (D5)	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Surface	drology Indicator cators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4)	f one requi		Water-Stai 1, 2, 4/ Salt Crust Aquatic Inv Hydrogen Oxidized R Presence o Recent Iron	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc Rhizospher of Reduce n Reduction Stressed	s (B13) lor (C1) res along d Iron (C4 on in Tilled Plants (D	Living Roo b) d Soils (C6	RA ots (C3)	Water- 4A, Drainag Dry-Se Saturat Geomo Shallov FAC-N Raised	Stained Lo and 4B) ge Patterr ason Wat tion Visible orphic Pos w Aquitard eutral Tes Ant Mour	ns (B10) ter Table (C2) e on Aerial Imag sition (D2)	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Surface	drology Indicator cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) vosits (B3) ot or Crust (B4) osits (B5) Soil Cracks (B6)	f one requi	B7)	Water-Stai 1, 2, 4/ Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc Rhizospher of Reduce n Reduction Stressed	s (B13) lor (C1) res along d Iron (C4 on in Tilled Plants (D	Living Roo b) d Soils (C6	RA ots (C3)	Water- 4A, Drainag Dry-Se Saturat Geomo Shallov FAC-N Raised	Stained Lo and 4B) ge Patterr ason Wat tion Visible orphic Pos w Aquitard eutral Tes Ant Mour	eaves (B9) (ML ns (B10) ter Table (C2) e on Aerial Imag sition (D2) d (D3) st (D5) nds (D6) (LRR A	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Surface	drology Indicator cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) sosits (B3) at or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aeria	f one requi	B7)	Water-Stai 1, 2, 4/ Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc Rhizospher of Reduce n Reduction Stressed	s (B13) lor (C1) res along d Iron (C4 on in Tilled Plants (D	Living Roo b) d Soils (C6	RA ots (C3)	Water- 4A, Drainag Dry-Se Saturat Geomo Shallov FAC-N Raised	Stained Lo and 4B) ge Patterr ason Wat tion Visible orphic Pos w Aquitard eutral Tes Ant Mour	eaves (B9) (ML ns (B10) ter Table (C2) e on Aerial Imag sition (D2) d (D3) st (D5) nds (D6) (LRR A	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely	drology Indicator cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) Soil Cracks (B6) on Visible on Aeria vegetated Conca	f one requi	B7)	Water-Stai 1, 2, 4/ Salt Crust Aquatic Inv Hydrogen : Oxidized R Presence c Recent Iron Stunted or Other (Exp	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc Rhizospher of Reduce n Reduction Stressed	s (B13) lor (C1) res along d Iron (C4 on in Tilled Plants (D	Living Roo b) d Soils (C6	RA ots (C3)	Water- 4A, Drainag Dry-Se Saturat Geomo Shallov FAC-N Raised	Stained Lo and 4B) ge Patterr ason Wat tion Visible orphic Pos w Aquitard eutral Tes Ant Mour	eaves (B9) (ML ns (B10) ter Table (C2) e on Aerial Imag sition (D2) d (D3) st (D5) nds (D6) (LRR A	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely	drology Indicator cators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aeria Vegetated Concavations: er Present?	I Imagery (ve Surface	B7) : (B8) No ⊠	Water-Stai 1, 2, 4/ Salt Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc Rhizospher of Reduce n Reductic Stressed olain in Re	s (B13) lor (C1) res along d Iron (C4 on in Tilled Plants (D	Living Roo b) d Soils (C6	RA ots (C3)	Water- 4A, Drainag Dry-Se Saturat Geomo Shallov FAC-N Raised	Stained Lo and 4B) ge Patterr ason Wat tion Visible orphic Pos w Aquitard eutral Tes Ant Mour	eaves (B9) (ML ns (B10) ter Table (C2) e on Aerial Imag sition (D2) d (D3) st (D5) nds (D6) (LRR A	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely Field Obser Surface Wat	drology Indicator cators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) ot or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aeria Vegetated Conca vations: er Present?	Il Imagery (ve Surface Yes Yes Yes	B7) • (B8) No 🗵	Water-Stai 1, 2, 4/ Salt Crust Aquatic Int Hydrogen: Oxidized R Presence of Recent Iron Stunted or Other (Exp	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc Rhizospher of Reduce n Reduction Stressed clain in Re (S): None	s (B13) lor (C1) res along d Iron (C4 on in Tilled Plants (D	Living Roo s) d Soils (C6 1) (LRR A)	ets (C3)	Water- 4A, Drainag Dry-Se Saturat Geomo Shallov FAC-N Raised Frost-H	Stained Lo and 4B) ge Patterr ason Wat tion Visible orphic Pos w Aquitard eutral Tes Ant Mour Heave Hur	eaves (B9) (ML ns (B10) ter Table (C2) e on Aerial Imag sition (D2) d (D3) st (D5) nds (D6) (LRR A	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundatic Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	drology Indicator cators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4) oosits (B5) Soil Cracks (B6) on Visible on Aeria vegetated Concavations: er Present? Present? resent?	Il Imagery (ve Surface Yes Yes Yes Yes Yes	B7) • (B8) No 🗵 No 🗵	Water-Stai 1, 2, 4/ Salt Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc Rhizospher of Reduce n Reductic Stressed blain in Re None S): None None	s (B13) lor (C1) es along d Iron (C4 on in Tiller Plants (D marks)	Living Roo d Soils (C6 1) (LRR A)	RA ots (C3) ot)	Water- 4A, Drainag Dry-Se Saturat Geomo Shallov FAC-N- Raised Frost-H	Stained Lo and 4B) ge Patterr ason Wat tion Visible orphic Pos w Aquitard eutral Tes Ant Mour Heave Hur	eaves (B9) (ML ns (B10) ter Table (C2) e on Aerial Imag sition (D2) d (D3) st (D5) nds (D6) (LRR A	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundatic Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	drology Indicator cators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) ot or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aeria Vegetated Conca vations: er Present? Present?	Il Imagery (ve Surface Yes Yes Yes Yes Yes	B7) • (B8) No 🗵 No 🗵	Water-Stai 1, 2, 4/ Salt Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc Rhizospher of Reduce n Reductic Stressed blain in Re None S): None None	s (B13) lor (C1) es along d Iron (C4 on in Tiller Plants (D marks)	Living Roo d Soils (C6 1) (LRR A)	RA ots (C3) ot)	Water- 4A, Drainag Dry-Se Saturat Geomo Shallov FAC-N- Raised Frost-H	Stained Lo and 4B) ge Patterr ason Wat tion Visible orphic Pos w Aquitard eutral Tes Ant Mour Heave Hur	eaves (B9) (ML ns (B10) ter Table (C2) e on Aerial Imag sition (D2) d (D3) st (D5) nds (D6) (LRR A	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundatic Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	drology Indicator cators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4) oosits (B5) Soil Cracks (B6) on Visible on Aeria vegetated Concavations: er Present? Present? resent?	Il Imagery (ve Surface Yes Yes Yes Yes Yes	B7) • (B8) No 🗵 No 🗵	Water-Stai 1, 2, 4/ Salt Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc Rhizospher of Reduce n Reductic Stressed blain in Re None S): None None	s (B13) lor (C1) es along d Iron (C4 on in Tiller Plants (D marks)	Living Roo d Soils (C6 1) (LRR A)	RA ots (C3) ot)	Water- 4A, Drainag Dry-Se Saturat Geomo Shallov FAC-N- Raised Frost-H	Stained Lo and 4B) ge Patterr ason Wat tion Visible orphic Pos w Aquitard eutral Tes Ant Mour Heave Hur	eaves (B9) (ML ns (B10) ter Table (C2) e on Aerial Imag sition (D2) d (D3) st (D5) nds (D6) (LRR A	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundatic Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	drology Indicator cators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4) oosits (B5) Soil Cracks (B6) on Visible on Aeria vegetated Concavations: er Present? Present? resent?	Il Imagery (ve Surface Yes Yes Yes Yes Yes	B7) • (B8) No 🗵 No 🗵	Water-Stai 1, 2, 4/ Salt Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc Rhizospher of Reduce n Reductic Stressed blain in Re None S): None None	s (B13) lor (C1) es along d Iron (C4 on in Tiller Plants (D marks)	Living Roo d Soils (C6 1) (LRR A)	RA ots (C3) ot)	Water- 4A, Drainag Dry-Se Saturat Geomo Shallov FAC-N- Raised Frost-H	Stained Lo and 4B) ge Patterr ason Wat tion Visible orphic Pos w Aquitard eutral Tes Ant Mour Heave Hur	eaves (B9) (ML ns (B10) ter Table (C2) e on Aerial Imag sition (D2) d (D3) st (D5) nds (D6) (LRR A	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely Field Obser Surface Water Table Saturation P (includes cap Describe Re	drology Indicator cators (minimum o Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) tt or Crust (B4) oosits (B5) Soil Cracks (B6) on Visible on Aeria vegetated Concavations: er Present? Present? resent?	Il Imagery (ve Surface Yes Yes Yes am gauge,	B7) e (B8) No 🗵 No 🗵 monitori	Water-Stai 1, 2, 4/ Salt Crust Aquatic Inv Hydrogen : Oxidized R Presence of Recent Iron Stunted or Other (Exp Depth (inches Depth (inches	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc Rhizospher of Reduce n Reductic Stressed olain in Re Si: None None photos, pr	s (B13) lor (C1) es along d Iron (C4 on in Tiller Plants (D marks) evious ins	Living Roo d Soils (C6 1) (LRR A)	RA ots (C3) ot)	Water- 4A, Drainag Dry-Se Saturat Geomo Shallov FAC-N- Raised Frost-H	Stained Lo and 4B) ge Patterr ason Wat tion Visible orphic Pos w Aquitard eutral Tes Ant Mour Heave Hur	eaves (B9) (ML ns (B10) ter Table (C2) e on Aerial Imag sition (D2) d (D3) st (D5) nds (D6) (LRR A	RA 1, 2,
Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely Field Obser Surface Water Table Saturation P (includes cap Describe Re	drology Indicator cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) ot or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aeria ovegetated Concavations: er Present? Present? pillary fringe) corded Data (strea	Il Imagery (ve Surface Yes Yes Yes am gauge,	B7) e (B8) No 🗵 No 🗵 monitori	Water-Stai 1, 2, 4/ Salt Crust Aquatic Inv Hydrogen : Oxidized R Presence of Recent Iron Stunted or Other (Exp Depth (inches Depth (inches	ined Leave A, and 4B (B11) vertebrate: Sulfide Oc Rhizospher of Reduce n Reductic Stressed olain in Re Si: None None photos, pr	s (B13) lor (C1) es along d Iron (C4 on in Tiller Plants (D marks) evious ins	Living Roo d Soils (C6 1) (LRR A)	RA ots (C3) ot)	Water- 4A, Drainag Dry-Se Saturat Geomo Shallov FAC-N- Raised Frost-H	Stained Lo and 4B) ge Patterr ason Wat tion Visible orphic Pos w Aquitard eutral Tes Ant Mour Heave Hur	eaves (B9) (ML ns (B10) ter Table (C2) e on Aerial Imag sition (D2) d (D3) st (D5) nds (D6) (LRR A	RA 1, 2,

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

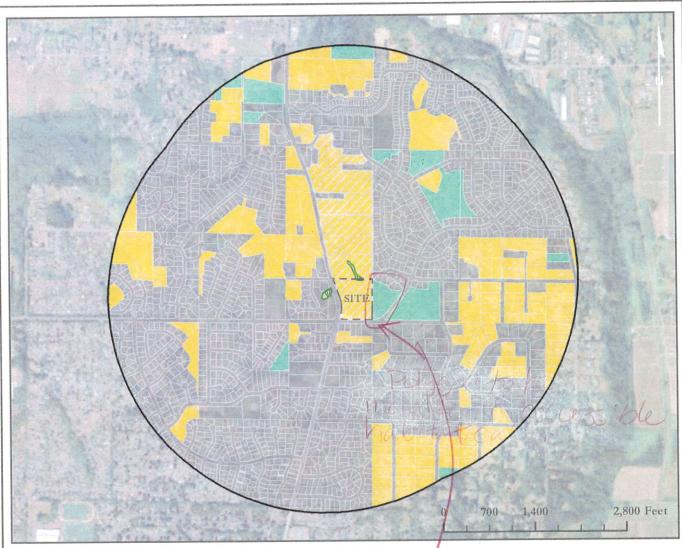
1072 0000 Door Creek		ity/County:	Puyallup	/Pierce	Sampling Date: 1/5/	22
Job Cita.		ny/ Courty.		State: WA	Sampling Point: DP	-2W
plicant/Owner: RM Homes estigator(s): Ryan Krapp and Mae Ancheta			Poetion Toy	washin Range 35, 2	20 North, 04 East	
estigator(s): Ryan Krapp and Mae Ancheta			(approx page). Cond	cave Slope (%): 2
estigator(s): Nyari Krapp and Mac 7 monoida ndform (hillslope, terrace, etc.): Depression	47.4	Local relief	(concave, c	-122 25149	9739 Datum: V	VGS 84
hdform (hillslope, terrace, etc.): Depression bregion (LRR): A2	_ Lat: 47.1	/1534		Long:	S VI N/A	
bregion (LRR): 622 il Map Unit Name: Indianola loamy sand, 5 to 15	percent slo	opes		NVVI classi	fication: 14/7	
e climatic / hydrologic conditions on the site typical for thi	s time of year	? Yes 🛚	No ☐ (If	no, explain in Remark	(S.)	7
e Vegetation, Soil, or Hydrology sig	nificantly dist	urbed?	Are "No	rmal Circumstances" p	oresent? Yes 🔀 No L	7
e Vegetation, Soil, or Hydrology nati	urally problem	natic?	(If neede	ed, explain any answer	rs in Remarks.)	
UMMARY OF FINDINGS – Attach site map	showing	sampling	g point lo	ocations, transec	ts, important featu	res, etc
Hydrophytic Vegetation Present? Yes ⊠ No □		le éle	e Sampled	Aroa		
Hydric Soil Present? Yes ☒ No ☐			in a Wetlan		l No □	
Wetland Hydrology Present? Yes ⊠ No □		WILLI	III a vvetian			
All three wetland criteria met. D		ollected	in Wetl	and A.		
EGETATION – Use scientific names of pla			L. dit	Dominance Test w	rorksheet	
To Otrobono (Diotoizo: 20 ft)	Absolute % Cover	Dominant Species?		Number of Dominar		
Tree Stratum (Plot size: <u>30 ft)</u> 1				That Are OBL, FAC	W, or FAC: 2	(A)
2				Total Number of Do	minant	
3.				Species Across All	Strata: 3	(B)
4.			***************************************	Percent of Dominar	nt Species	
	0	= Total C		That Are OBL, FAC		(A/B)
Sapling/Shrub Stratum (Plot size: 30 ft)	40	Yes	FACU	Prevalence Index	worksheet:	
1. Acer circinatum	30	Yes	FAC	St. March Commission Commission	of: Multiply b	<u>У:</u>
2. Rubus armeniacus 3. Rubus spectabilis	10	No	FAC	OBL species	x 1 =	
3. Rubus spectabilis 4.				FACW species	x 2 =	
5		_			x 3 =	
5.	80	= Total (Cover		x 4 =	
Herb Stratum (Plot size: 10 ft)	40	Voc	FAC	UPL species		(5)
1. Ranunculus repens	<u>10</u> 10	Yes_ No	FACU	Column Totals:	(A)	(B)
2. Tolmiea menziesii	5	No	FACIL	Prevalence Ir	ndex = B/A =	
3. Equisetum arvense			17100		etation Indicators:	
4				☐ Rapid Test for	Hydrophytic Vegetation	
5				□ Dominance Te □ Do	est is >50%	
6				☐ Prevalence Inc		
8	*****			data in Rei	Adaptations ¹ (Provide sumarks or on a separate s	ipporting heet)
9				☐ Wetland Non-\		
10					ydrophytic Vegetation1 (E	
11.	25	= Total	Cover	¹Indicators of hydr	ric soil and wetland hydro s disturbed or problemation	logy must
Woody Vine Stratum (Plot size: 30 ft)				be present, unless	- dictarboa of probleman	
VVOODY VINE Stratum (Flot Size. 30 it)				Hydrophytic		
1				Vegetation	V W N-	
1		= Total		Present?	Yes ⊠ No □	

Sampling Point: DP-2W

10 - 16+ 2.5YR 4/1 97 7.5YR 4/4 3 C M/PL Sand	Remarks Sandy Ioam
10 - 10 10 10 10 10 10 10	
10 - 16+ 2.5YR 4/1 97 7.5YR 4/4 3 C M/PL Sand 11	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: Matrix (F3)	
Histosol (A1)	
Histosol (A1)	
Histosol (A1)	
Histosol (A1) Sandy Redox (S5) 2 cm ML Histosol (A2) Stripped Matrix (S6) Red Pan Black Histic Epipedon (A2) Loamy Mucky Mineral (F1) (except MLRA 1) Very Sha Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Very Sha Depleted Below Dark Surface (A11) Depleted Matrix (F2) Other (E Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology Indicators of Wetland hydric Soil Criteria met through indicator A11. YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface (A2) Salt Crust (B11) Drainage High Water Table (A2) 1, 2, 4A, and 4B) AA, Water Marke (B1) Drainage Water Marke (B1) Water Marke (B1) Indicators (Indicators Indicators (F7) Wetland Indicators (F7) Wetland Indicators (F7) Water Indicators (F8) Very Sha	
Histosol (A1)	
Histosol (A1) Sandy Redox (S5) 2 cm ML Histosol (A2) Stripped Matrix (S6) Red Par Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Sha Loamy Mucky Mineral (F1) (except MLRA 1) Very Sha Loamy Mucky Mineral (F1) (except MLRA 1) Very Sha Loamy Mucky Mineral (F1) (except MLRA 1) Very Sha Loamy Mucky Mineral (F1) (except MLRA 1) Very Sha Loamy Mucky Mineral (F2) Other (E Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland he Restrictive Layer (if present): Type: None Depth (inches):— Depth (inches):— Hydric Soil criteria met through indicator A11. PYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-High Water Table (A2) High Water Table (A2) Saturation (A3) Saturation (A3) Drainage None Drainage Indicators (P2 cm ML Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Water Marke (R1) Drainage Indicators (P2 cm ML Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Red Par Red Par Loamy Mucky Mineral (F1) (except MLRA Pac) Red Par Red	
Histosol (A1)	on: PL=Pore Lining, M=Matrix.
Histic Epipedon (A2) Stripped Matrix (S6) 2 cm ML Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Sha Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (E Depleted Below Dark Surface (A11) Depleted Matrix (F3) Indicators of Wetland Hydrogen Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) 3Indicators of Wetland Hydrogen Matrix (S4) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland Hydrogen Matrix (S4) Restrictive Layer (if present): Redox Depressions (F8) Unless districtive Layer (if present): Type: None Depth (inches): Hydric Soil Present): Depth (inches): Hydric Soil Present): Hydric Soil Present Primary Indicators (minimum of one required; check all that apply) Secondary Surface Water (A1) Water-Stained Leaves (B9) (except MLRA) Water-Stained Leaves (B9) (except MLRA) Water-Stained Leaves (B9) (except MLRA) High Water Table (A2) 1, 2, 4A, and 4B) 4A, Water Marks (B1) Drainagent Marks (B1) Drainagent Marks (B1)	for Problematic Hydric Soils ³
Black Histic (A3) □ Loamy Mucky Mineral (F1) (except MLRA 1) □ Red Pan □ Hydrogen Sulfide (A4) □ Loamy Gleyed Matrix (F2) □ Other (E ☑ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thick Dark Surface (A12) □ Redox Dark Surface (F6) □ Indicators of wetland he unless districtive Layer (if present): □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Water-Stained Leaves (B9) (except MLRA) □ Remarks: □ Hydric Soil Present □ Soil Criteria met through indicator A11. □ Water-Stained Leaves (B9) (except MLRA) □ Drained ☑ Saturation (A3) □ Salt Crust (B11) □ Drained □ Drained	
☐ Hydrogen Sulfide (A4) ☐ Loamy Gleyed Matrix (F2) ☐ Other (E☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3) ☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Indicators of wetland hydrology Indicators: Restrictive Layer (if present):	rent Material (TF2)
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Wetland hunless discriptive Layer (if present): Type: None Depth (inches): Thick Dark Surface (F7) Wetland hunless discriptive Layer (if present): Type: None Hydric Soil Presents: Remarks: R	allow Dark Surface (TF12)
Thick Dark Surface (A12)	Explain in Remarks)
□ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) wetland he unless dis Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) unless dis Unless dis Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) unless dis Unless dis Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) unless dis Sandy Gleyed Matrix (S4) □ Pressor Sandy Gleyed Matrix (S4) □ Matrix (S4) □ Pressor Sandy Gleyed Matrix (S4) □ Sandy Gleyed Matrix (S4) □ Pressor Sandy	of hydrophytic vegetation and
Restrictive Layer (if present): Type: None Depth (inches):	hydrology must be present,
Type: None Depth (inches): Remarks: ydric soil criteria met through indicator A11. YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Salt Crust (B11) Hydric Soil Present): Hydric Soil Present): Hydric Soil Present): Wydric Soil Present: Hydric Soil Present: Secondary: Se	sturbed or problematic.
Remarks: ydric soil criteria met through indicator A11. YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Water Marks (B1) Drainage	- Providence
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Vater Marks (B1) Veter Solid Criteria met through indicator A11. Secondary Water-Stained Leaves (B9) (except MLRA Drainage	
ydric soil criteria met through indicator A11. //DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-High Water Table (A2) 1, 2, 4A, and 4B) 4A, Saturation (A3) Salt Crust (B11) Drainage	sent? Yes 🗵 No 🗌
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage	
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1) Water Marks (B1)	
High Water Table (A2) Saturation (A3) Salt Crust (B11) Drainag	y Indicators (2 or more required
Saturation (A3) Salt Crust (B11) Drainag	-Stained Leaves (B9) (MLRA 1,
Water Marks (R1)	, and 4B)
T Duddit invenencials (BTG)	ge Patterns (B10)
Sediment Deposits (P2)	eason Water Table (C2)
Drift Deposits (B3)	tion Visible on Aerial Imagery (
Algal Mat or Crust (B4)	orphic Position (D2)
Iron Denosits (B5)	w Aquitard (D3)
Surface Soil Cracks (R6)	eutral Test (D5)
Injundation Visible on Aerial Imagon (PZ)	Ant Mounds (D6) (LRR A) leave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8)	leave Hummocks (D7)
eld Observations:	
urface Water Present? Yes No No Depth (inches): None	
ater Table Present?	
ater Table Present? Yes ⊠ No ☐ Depth (inches): 1	sent? Yes ⊠ No □
aturation Present? Yes 🗵 No 🗌 Depth (inches): Surface Wetland Hydrology Pres	
aturation Present? Yes 🗵 No 🗌 Depth (inches): Surface Wetland Hydrology Pres	
aturation Present? Yes No Depth (inches): Surface Wetland Hydrology Presencludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
aturation Present? Yes 🗵 No 🗌 Depth (inches): Surface Wetland Hydrology Pres	

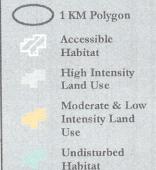
H 1.5. Special habitat features: Check the habitat features that are present in the wetland. The number of checks is the number of points. X Large, downed, woody debris within the wetland (> 4 in diameter and 6 ft long). X Standing snags (dbh > 4 in) within the wetland X Undercut banks are present for at least 6.6 ft (2 m) and/or overhanging plants extends at least 3.3 ft (1 n over 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)	m) 3
Invasive plants cover less than 25% of the wetland area in every stratum of plants (see H 1.1 for list of	
strata)	V 0
Total for H 1 Add the points in the boxes above	
Rating of Site Potential If score is:15-18 = H	g 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 that directly abuts wetland unit). Calculate: 0.00 % undisturbed habitat + [(% moderate and low intensity land uses) 4.55 /2] = 2.275 % If total accessible habitat is: Needs to be vecal culated points = $20-33\%$ of 1 km Polygon $20-33\%$ of	2
H 2.2. Undisturbed habitat in 1 km Polygon around the wetland.	2 1
H 2.3. Land use intensity in 1 km Polygon: If > 50% of 1 km Polygon is high intensity land use ≤ 50% of 1 km Polygon is high intensity points = (-1)	2) -2
Total for H 2 Add the points in the boxes above	ve -1
Rating of Landscape Potential If score is:4-6 = H1-3 = MX < 1 = L	
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 scot that applies to the wetland being rated. Site meets ANY of the following criteria: 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 lise) 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 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	= 2 (sts) 1
× Site has 1 or 2 priority habitats (listed on next page) within 100 m	: 1
Site does not meet any of the criteria above points =	
Rating of Value If score is: $2 = H \times 1 = M$ $0 = L$ Record the ratio	ng on the first page

Wetland Rating System for Western WA: 2014 Update Rating Form – Effective January 1, 2015



H.2.0 Wetland A		
11.2.1		
	Abutting Undisturbed Habitat	()_()()a-a
	Abutting Moderate & Low Intensity Land Uses	4.55%
	Accessible Habitat	2.27%
H.2.0 Wetland 1		
H.2.1		
	Abutting Undisturbed Habitat	(),()() ⁰ o
	Abutting Moderate & Low Intensity Land Uses	(),()();;
	Accessible Habitat	0.00%
11.2.2		
	Undisturbed Habitat	4.24"
	Moderate & Low Intensity Land Uses	25.15"
	Undisturbed Habitat in 1 KM Polygon	16.82%
11,2.3		
	High Intensity Land Use in 1 KM Polygon	70.61%

polygon Should be included in accessible habitat calci because there is no homan & isturbance between polygon + wetland





Soundview Consultants LLC

2907 Harborview Dr., Suite D, Gig Harbor, WA 98335 Phone: (253) 514-8952 Fax: (253) 514-8954

www.soundviewconsultants.com

DEER CREEK

2007 SHAW RD PUYALLUP, WA 98372

PIERCE COUNTY PARCEL NUMBERS: 0420354039

DATE: 1/10/2022

JOB: 1273.0009

BY: DDS

SCALE: 1'' = 1,400

FIGURE NO. 4 of 5