Sami	alina	Point:	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Location: PL=Pore Lining, M=Matrix, Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Location (A2) Stripped Matrix (S6) Red Parent Material (TF2) Very Shallow Dark Surface (A10) Depleted Matrix (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Redox Dark Surface (F8) Redox Dark Surfa	Depth Mate (inches) Color (mois		Color (moist)	Features %	Type ¹	_Loc ²	Texture		Remarks
Type: C=Concentration: D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Tocation: PL=Prore Lining, M=Matrix, Pydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*; Histoso (A1) Shripped Matrix (S9) Can Muck (A10) Red Parem Material (TF2) Can Muck (A10) Red Parem Material (TF2) Can Muck (A10) Red Parem Material (TF2) Can Muck (A10) Phytrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Depleted Matrix (F3) Can Muck (A10) Chier (Explain in Remarks) Depleted Dark Surface (A12) Redox Dark Surface (F6) Indicators of Hydrophytic vegetation and vetal hydrology indicators: (A12) Redox Depressions (F8) Present? Present (A12) Present (A12) Present (A13) Present (A13) Present (A14) Present (A15) Presen		(40					Loan	40%	Camuel
Type: C=Concentration, D=Depletion, RtM=Reduced Matrix, CS=Covered or Coated Sand Grains. ^1_Location: PL=Pore Lining, M=Matrix, Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*:	- //	5 00	10VA 4/4	3	\overline{C}	1/1		10 10	()440001
Type: C=Concentration. D=Depletion. RM=Reduced Matrix. CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix. Hydric Soil indicators: (Applicable to all LRRs, unless otherwise noted.) Histic Epipedon (A2) Black Histic (A3) Loarny Mucky Mineral (F1) (except MLRA 1) Hydrogen Stufface (A7) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Micky Matrix (A3) Redox Dark Surface (F6) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **Type: Depth (inches):** Hydric Soil Present? Yes	10 011 101071	- 40	10/12/19	-12	5		1		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histocol (A1)	19-24 101K31	2 DU	6.013/1.5			- 1	FOOWN DOS	- A	Art.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histocol (A1)		6.30	er in a large	2 100	<u> </u>		St. 2 I I Wall	E +14.	a T
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1)					1				
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histocol (A1)									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histocol (A1)									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histocol (A1)									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1)	1Tuna C-Consentation D-	Doubling DA	AuDadward Matrix, CC	-Cavarad	or Coats	d Cand Ca	21 oo	ation: DI =De	ero Lining M-Matrix
Histosol (A1) Sandy Redox (S5) 2 2 cm Muck (A10) Red Parent Material (TF2) Histo Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Users Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Redox Mineral (S11) Depleted Dark Surface (F7) Redox Dark Surface (F6) Redox Depressions (F8) Proceedings of the Mineral (S11) Redox Depleted Dark Surface (F7) Redox Depressions (F8) Proceedings of the Mineral (S11) Redox Depleted Dark Surface (F7) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (inches): Remarks:	Hydric Soil Indicators: (Ar	policable to a	II LRRs. unless other	wise note	d.)	u Sand Gi			
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Black Histic (A3)	The state of the s								ial (TF2)
) (except	MLRA 1)			· ·
Thick Dark Surface (A12)							Othe	r (Explain in I	Remarks)
Sandy Mucky Mineral (S1)		, ,	_ '				2		
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Salturation (A3) Salturation (A3) Salturation (A3) Salturation (A3) Salturation (A3) Salturation (A3) Seemint Deposits (B2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) For Salturation Visible on Aerial Imagery (C9) Irion Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Surface Vater (A1) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Vater Present? Yes No Depth (inches): Water Table (A2) Hydrogen Sulfide Odor (C1) Sparsely Salturation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Vater Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Salturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Salturation Present? Yes No	- 10 m	,		, ,	_				-
Restrictive Layer (if present):		•			/)				•
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Surface Water (A1)		7	The same		-				
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Water Marks (B1)	Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)		Water-Stair	ned Leave		xcept		ater-Stained	Leaves (B9) (MLRA 1, 2,
Sediment Deposits (B2)	Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		Water-Stair	ned Leave		xcept	w	ater-Stained 4A, and 4B	Leaves (B9) (MLRA 1, 2,
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Algal Mat or Crust (B4)	Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one require	Water-Stair MLRA 1 Salt Crust (Aquatic Inv	ned Leave I, 2, 4A, a (B11) rertebrates	nd 4B)	xcept	Dr	ater-Stained 4A, and 4B ainage Patte y-Season W	Leaves (B9) (MLRA 1, 2,) rns (B10) ater Table (C2)
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(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Cor	of one require	Water-Stair MLRA 1 Salt Crust (Aquatic Inv Hydrogen 5 Oxidized R Presence 0 Recent Iror Stunted or B7) Other (Exp	ned Leave 1, 2, 4A, a (B11) rertebrates Sulfide Od hizospher of Reduce n Reduction Stressed Iain in Re	ond 4B) s (B13) lor (C1) res along d Iron (Co on in Tille Plants (D	Living Roo 4) d Soils (C6	Dr Dr Sa ots (C3) Gr Sh FA) Ra	ater-Stained 4A, and 4B, ainage Patte y-Season Waturation Visil eomorphic Ponallow Aquita AC-Neutral Totalsed Ant Mo	Leaves (B9) (MLRA 1, 2, 1) rns (B10) ater Table (C2) ble on Aerial Imagery (C9) brition (D2) rd (D3) est (D5) unds (D6) (LRR A)
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	Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on AcSparsely Vegetated CorField Observations: Surface Water Present? Water Table Present?	of one require of one require in the second of the secon	Water-Stair MLRA 1 Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Stunted or B7) Other (Exp (B8) No Depth (inc	ned Leave I, 2, 4A, a (B11) rertebrates Sulfide Od hizospher of Reduce on Reduction Stressed Iain in Reserve	nd 4B) s (B13) lor (C1) res along d Iron (C- on in Tille Plants (D marks)	Living Roo 4) d Soils (C6 1) (LRR A	W Dr Dr Sa St St S) F/ Fr	ater-Stained 4A, and 4B, ainage Patte y-Season Waturation Visil eomorphic Ponallow Aquita AC-Neutral Totalsed Ant Moost-Heave H	Leaves (B9) (MLRA 1, 2, 1) rns (B10) ater Table (C2) ble on Aerial Imagery (C9) bestion (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)
	Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Cor Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	of one require orial Imagery (Incave Surface Yes Yes Yes	Water-Stair MLRA 1 Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Stunted or B7) Other (Exp (B8) No Depth (inc	ned Leave I, 2, 4A, a (B11) rertebrates Sulfide Od hizospher of Reduce n Reduction Stressed Iain in Rea ches): ches):	nd 4B) s (B13) dor (C1) res along d Iron (C- on in Tille Plants (D marks)	Living Roo 4) d Soils (C6 1) (LRR A	W Dr Dr Sa St St St Fr and Hydrology	ater-Stained 4A, and 4B, ainage Patte y-Season Waturation Visil eomorphic Ponallow Aquita AC-Neutral Totalsed Ant Moost-Heave H	Leaves (B9) (MLRA 1, 2, 1) rns (B10) ater Table (C2) ble on Aerial Imagery (C9) bestion (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)
	Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ac Sparsely Vegetated Cor Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (street)	of one require orial Imagery (Incave Surface Yes Yes Yes	Water-Stair MLRA 1 Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Stunted or B7) Other (Exp (B8) No Depth (inc	ned Leave I, 2, 4A, a (B11) rertebrates Sulfide Od hizospher of Reduce n Reduction Stressed Iain in Rea ches): ches):	nd 4B) s (B13) dor (C1) res along d Iron (C- on in Tille Plants (D marks)	Living Roo 4) d Soils (C6 1) (LRR A	W Dr Dr Sa St St St Fr and Hydrology	ater-Stained 4A, and 4B, ainage Patte y-Season Waturation Visil eomorphic Ponallow Aquita AC-Neutral Totalsed Ant Moost-Heave H	Leaves (B9) (MLRA 1, 2, 1) rns (B10) ater Table (C2) ble on Aerial Imagery (C9) bestition (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)
L HR was a second	Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Active Sparsely Vegetated Corfield Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strees.)	of one require orial Imagery (Incave Surface Yes Yes Yes	Water-Stair MLRA 1 Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Stunted or B7) Other (Exp (B8) No Depth (inc	ned Leave I, 2, 4A, a (B11) rertebrates Sulfide Od hizospher of Reduce n Reduction Stressed Iain in Rea ches): ches):	nd 4B) s (B13) dor (C1) res along d Iron (C- on in Tille Plants (D marks)	Living Roo 4) d Soils (C6 1) (LRR A	W Dr Dr Sa St St St Fr and Hydrology	ater-Stained 4A, and 4B, ainage Patte y-Season Waturation Visil eomorphic Ponallow Aquita AC-Neutral Totalsed Ant Moost-Heave H	Leaves (B9) (MLRA 1, 2, 1) rns (B10) ater Table (C2) ble on Aerial Imagery (C9) bestition (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)
	Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Active Sparsely Vegetated Corfield Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strees.)	of one require orial Imagery (Incave Surface Yes Yes Yes	Water-Stair MLRA 1 Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Stunted or B7) Other (Exp (B8) No Depth (inc	ned Leave I, 2, 4A, a (B11) rertebrates Sulfide Od hizospher of Reduce n Reduction Stressed Iain in Rea ches): ches):	nd 4B) s (B13) dor (C1) res along d Iron (C- on in Tille Plants (D marks)	Living Roo 4) d Soils (C6 1) (LRR A	W Dr Dr Sa St St St Fr and Hydrology	ater-Stained 4A, and 4B, ainage Patte y-Season Waturation Visil eomorphic Ponallow Aquita AC-Neutral Totalsed Ant Moost-Heave H	Leaves (B9) (MLRA 1, 2, 1) rns (B10) ater Table (C2) ble on Aerial Imagery (C9) bestition (D2) rd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)

AECOM Report Environment

Unincorporated King County

Field Data Forms

= Welland KE-A

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region City/County: Red mond Sampling Date: Applicant/Owner: _ Sampling Point: Investigator(s): Hamidi, N2519 __ Section, Township, Range: __ Landform (hillslope, terrace, etc.): d vov といい _ Local relief (concave, convex, none): ___Concave Slope (%): Subregion (LRR): Lat: ______Long: _____ Datum: Soil Map Unit Name: Tいにい NWI classification: __ No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🗡 No Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? No Is the Sampled Area Hydric Soil Present? No ___ within a Wetland? Wetland Hydrology Present? Photos 2348-2353 KC-A VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: (A/B) Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: 1. Rubus armeniacus FAC Total % Cover of: **OBL** species FACW species x2= FAC species FACU species = Total Cover **UPL** species Herb Stratum (Plot size: Phalaris aroud Column Totals: _ Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** ____1 - Rapid Test for Hydrophytic Vegetation ★ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants1 Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 101 = Total Cover Woody Vine Stratum (Plot size: Hydrophytic Vegetation Present? = Total Cover % Bare Ground in Herb Stratum _ Remarks:

Profile Descri	iption: (Describe	to the dept	h needed to docur	nent the i	ndicator	or confirm	the absence	of Indicators.)
Depth _	Matrix			x Feature			** S	
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-8	104R 3/1	100					Sich	
8-18.	109R 3/1	95	104R 4)4	5	<u></u>	mpl.	5; cl	56 grew 215
	n di							
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							·
				-		•		
-	7%							
1= 00			Dadward Matrix CS		d or Conto	d Sand Gra	ins ² l or	cation: PL=Pore Lining, M=Matrix.
Type: C=Cor	rcentration, D=Dep	etion, Rivi=	Reduced Matrix, CS RRs, unless othe	rwise not	ed.)	u Sanu Gra	Indicate	ors for Problematic Hydric Soils ³ :
Histosol (/		able to all t	Sandy Redox (J.,			n Muck (A10)
· · ·	pedon (A2)	-	Stripped Matrix					Parent Material (TF2)
Black Hist		-	Loamy Mucky I		1) (except	MLRA 1)		y Shallow Dark Surface (TF12)
1	Sulfide (A4)	-	Loamy Gleyed					er (Explain in Remarks)
	Below Dark Surface	æ (A11)	Depleted Matrix		•			, ar
	k Surface (A12)		Kedox Dark Su				3Indicate	ors of hydrophytic vegetation and
	ucky Mineral (S1)		Depleted Dark				wetla	nd hydrology must be present,
	eyed Matrix (S4)		Redox Depress	ions (F8)			unles	s disturbed or problematic.
Restrictive La	ayer (if present):							,
Type:	NONE							
Depth (inch	nes):						Hydric Soll	Present? Yes No
Remarks:								
HYDROLOG	SY .							
Wetland Hydi	rology Indicators	•						
Primary Indica	ators (minimum of	one required	; check all that app	ly)			Seco	ndary Indicators (2 or more required)
	Vater (A1)		Water-Sta		es (B9) (e	except	V	Vater-Stained Leaves (B9) (MLRA 1, 2,
	er Table (Ã2)			1, 2, 4A,		•		4A, and 4B)
✓ Saturation			Salt Crust				С	Orainage Patterns (B10)
/	irks (B1)		Aquatic In	, ,	e (R13)			Ory-Season Water Table (C2)
	Deposits (B2)		Hydrogen					Saturation Visible on Aerial Imagery (C9)
						Living Root		Geomorphic Position (D2)
Drift Depo			Presence	•	_	_	•	Shallow Aquitard (D3)
	t or Crust (B4)							FAC-Neutral Test (D5)
Iron Depo						d Soils (C6)	,	Raised Ant Mounds (D6) (LRR A)
	Soil Cracks (B6)					01) (LRR A)		
1	n Visible on Aerial			piain in Re	emarks)		F	rost-Heave Hummocks (D7)
1	Vegetated Concav	e Sunace (E	38)			····		
Field Observ								
Surface Water			No 🙏 Depth (ir					
Water Table F			No 🔀 Depth (ir			_		A
Saturation Pre	esent? '	Yes 💉 1	No Depth (ir	iches):	<u>0-10"</u>	Wetla	ınd Hydrolog	y Present? Yes No
(includes capi Describe Rec	orded Data (strear	n gauge, mo	nitoring well, aerial	photos, p	revious in:	spections), i	f available:	
-								
Remarks:				<u></u>				
	 ,							

upland near KC-A

Wetland Hydrology Present? Yes No	Lat:s time of ye ignificantly pros	ar? Yes Mo No disturbed? Are blematic? (If no sampling point I	State: Wh Sampling Point: 50 - A2 ange: convex, none): Slope (%): 5 Long: Datum: NWI classification: Upland (If no, explain in Remarks.) "Normal Circumstances" present? Yes X No eeded, explain any answers in Remarks.)
Landform (hillslope, terrace, etc.): Ril Cordov Subregion (LRR): A Soil Map Unit Name: Toke it a mock Are climatic / hydrologic conditions on the site typical for this Are Vegetation, Soil, or Hydrology n SUMMARY OF FINDINGS — Attach site map s Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Lat: s time of ye ignificantly aturally pro	ar? Yes Mo No disturbed? Are blematic? (If no sampling point I	Slope (%): 5 Long: Datum: NWI classification: Upland (If no, explain in Remarks.) "Normal Circumstances" present? Yes X No eeded, explain any answers in Remarks.)
Landform (hillslope, terrace, etc.): Ril Cordov Subregion (LRR): A Soil Map Unit Name: Toke it a mock Are climatic / hydrologic conditions on the site typical for this Are Vegetation, Soil, or Hydrology n SUMMARY OF FINDINGS — Attach site map s Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Lat: s time of ye ignificantly aturally pro	ar? Yes Mo No disturbed? Are blematic? (If no sampling point I	Slope (%): 5 Long: Datum: NWI classification: Upland (If no, explain in Remarks.) "Normal Circumstances" present? Yes X No eeded, explain any answers in Remarks.)
Subregion (LRR): A Soil Map Unit Name: TUKWILA MUCHA Are climatic / hydrologic conditions on the site typical for this Are Vegetation , Soil , or Hydrology , nor Hydrophytic Vegetation Present? Yes , Nor Hydric Soil Present? Yes , Nor Hydric Soil Present? Yes , Nor Hydrology Present? Yes , Nor Hydrology Present? Yes , Nor Hydrology Present?	s time of ye ignificantly aturally pro showing	ar? Yes	Long: Datum: NWI classification: Pland (If no, explain in Remarks.) "Normal Circumstances" present? Yes No eeded, explain any answers in Remarks.)
Are climatic / hydrologic conditions on the site typical for this Are Vegetation, Soil, or Hydrology so the Vegetation, Soil, or Hydrology not the SUMMARY OF FINDINGS — Attach site maps the Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydroc Soil Present? Yes Not the Wetland Hydrology Present? Yes Not the Wetland Hydrology Present?	s time of ye ignificantly aturally pro showing	ar? Yes <u>\$\frac{\fracc}{\fracc}\fint{\frac}\fint{\fin}}}}{\frac{\fir}{\fin}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}{\frac{\fin}}}{\fin}}}}}}}{\frac{\frac{\frac{\fir}{\fin}}}}{\frac{\fi</u>	NWI classification: Upland (If no, explain in Remarks.) "Normal Circumstances" present? Yes X No eeded, explain any answers in Remarks.)
Are climatic / hydrologic conditions on the site typical for this Are Vegetation, Soil, or Hydrology not hydrology not hydrology not hydrology not hydrophytic Vegetation Present? Yes Not hydric Soil Present? Yes Not Wetland Hydrology Present? Yes Not hydrology Present?	s time of ye ignificantly aturally pro showing	ar? Yes 	(If no, explain in Remarks.) "Normal Circumstances" present? Yes No eeded, explain any answers in Remarks.)
Are Vegetation, Soil, or Hydrologys Are Vegetation, Soil, or Hydrologyn SUMMARY OF FINDINGS — Attach site map s Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	ignificantly aturally pro showing	disturbed? Are blematic? (If no sampling point I	"Normal Circumstances" present? Yes No eeded, explain any answers in Remarks.)
Are Vegetation, Soil, or Hydrology not solve the solve t	showing	sampling point I	eeded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Attach site map s Yes No Yes No	showing	sampling point I	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No.	0	1977 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 - 1975 -	
Hydric Soil Present? Yes No. Wetland Hydrology Present? Yes No.		1-46-0	
			d Area
Demoder	· ×	within a Wetla	nd? Yes NoX
Remarks: upland plot pair with	5P-A		rd point for
2485 - 2484		<u> </u>	though RE Charth and)
/EGETATION – Use scientific names of plant	ts.		KCA
Tree Stratum (Plot size:)		Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species
2.		***************************************	That Are OBL, FACW, or FAC: (A)
3.			Total Number of Dominant Species Across All Strata: (B)
4			
2.1		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 30)	Im	V CAN	Prevalence Index worksheet:
1. Rubus armeniacus	100	- Y FAZ	Total % Cover of: Multiply by:
2.			OBL species x 1 =
A	10000		FACW species x 2 =
5.	1000		FAC species x 3 =
	100	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:			UPL species x 5 =
1. Holcus lanatus		<u> </u>	Column Totals: (A) (B)
2. Marost 15 GP 3. Pháláris árurdinacen	10	<u> </u>	Prevalence Index = B/A =
4. Rumex Wisom	T	Y FACW FAC	Hydrophytic Vegetation Indicators:
5.	 -		1 - Rapid Test for Hydrophytic Vegetation
6.	-		2 - Dominance Test is >50%
7.			3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
B			data in Remarks or on a separate sheet)
9.		4:1	5 - Wetland Non-Vascular Plants ¹
10			Problematic Hydrophytic Vegetation¹ (Explain)
11. <u></u>	Thees 5		¹ Indicators of hydric soil and wetland hydrology must
	30	= Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	e a la compaña	(1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
1 2.			Hydrophytic Vegetation
<u> </u>		Total Cover	Present? Yes X No
% Bare Ground in Herb Stratum		- Tutal Gover	
Remarks: Black berry thicket &	duct	to grassy	trail

Profile Descr	(===============================	•				•	
Depth .	Matrix		Redox Features Color (moist) %	Type Loc2	Texture	Remarks	
(inches)	Color (moist)	- 7 9				Zot rocks 1"	
0-13.	107R3/2	- <u>10</u>	-			201: 100-5	
	2						
			-				
	<u> </u>		-				
			· · · · · · · · · · · · · · · · · · ·				
	-				_		
¹Type: C=Cor	ncentration, D=Dep	oletion, RM=	Reduced Matrix, CS=Covered	or Coated Sand C		ation: PL=Pore Lining, M=Matrix.	
Hydric Soil In	ndicators: (Applic	able to all l	RRs, unless otherwise noted	d.)	Indicator	rs for Problematic Hydric Soils ³	:
Histosol ((A1)		Sandy Redox (S5)			Muck (A10)	
Histic Epi	ipedon (A2)		Stripped Matrix (S6)			Parent Material (TF2)	
Black His	tic (A3)		Loamy Mucky Mineral (F1)	(except MLRA 1		Shallow Dark Surface (TF12)	
Hydrogen	Sulfide (A4)		Loamy Gleyed Matrix (F2)		Othe	r (Explain in Remarks)	
	Below Dark Surface	ce (A11)	Depleted Matrix (F3)		3	#1 - document	
	rk Surface (A12)		Redox Dark Surface (F6)			rs of hydrophytic vegetation and	
	ucky Mineral (S1)	•	Depleted Dark Surface (F7)		nd hydrology must be present, s disturbed or problematic.	
	eyed Matrix (S4)		Redox Depressions (F8)		Unless	s disturbed of problematic.	
	ayer (if present):						
						Daniel Name No.	×
Depth (incl	hes):				Hydric Soil	Present? Yes No _	<u> </u>
	GY Irology Indicators	•					
Wetland Hyd	rology Indicators		i; check all that apply)		Secon	idary Indicators (2 or more require	ed)
Wetland Hyd Primary Indica	rology Indicators ators (minimum of		; check all that apply) Water-Stained Leave:	s (B9) (except		idary Indicators (2 or more require later-Stained Leaves (B9) (MLRA	
Wetland Hyd Primary Indica Surface V	rology Indicators ators (minimum of Water (A1)						
Wetland Hyd Primary Indica Surface V	rology Indicators ators (minimum of Water (A1) ler Table (A2)		Water-Stained Leaves		W	ater-Stained Leaves (B9) (MLRA	
Wetland Hyd Primary Indica Surface V High Wat	rology Indicators ators (minimum of Water (A1) ter Table (A2) n (A3)		Water-Stained Leaves MLRA 1, 2, 4A, ar	nd 4B)	w	/ater-Stained Leaves (B9) (MLRA 4A, and 4B)	
Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma	Irology Indicators ators (minimum of Water (A1) Ier Table (A2) In (A3) arks (B1)		Water-Stained Leave: MLRA 1, 2, 4A, ar Salt Crust (B11)	(B13)	W Di Di	/ater-Stained Leaves (B9) (MLRA 4A, and 4B) rainage Patterns (B10)	1, 2,
Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment	Irology Indicators ators (minimum of Water (A1) Ier Table (A2) In (A3) arks (B1) t Deposits (B2)		Water-Stained Leave: MLRA 1, 2, 4A, ar Salt Crust (B11) Aquatic Invertebrates	(B13) or (C1)	W Di Si	later-Stained Leaves (B9) (MLRA 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager	1, 2,
Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo	Irology Indicators ators (minimum of or		 Water-Stained Leaves MLRA 1, 2, 4A, ar Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Odd 	nd 4B) (B13) or (C1) es along Living Re	W Di Si oots (C3) G	later-Stained Leaves (B9) (MLRA 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager	1, 2,
Primary Indicate Surface V High Wate Saturation Water Mate Sediment Drift Depo	Irology Indicators ators (minimum of or Nater (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)		Water-Stained Leaves MLRA 1, 2, 4A, ar Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Odd Oxidized Rhizosphere	nd 4B) (B13) or (C1) es along Living Red iron (C4)	W Di Si pots (C3) G	later-Stained Leaves (B9) (MLRA 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager eomorphic Position (D2)	1, 2,
Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depu	rology Indicators ators (minimum of a Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)		Water-Stained Leaves MLRA 1, 2, 4A, ar Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction	nd 4B) (B13) or (C1) es along Living Red iron (C4) en in Tilled Soils (G	W Di Si pots (C3) S Si Si Si Si	later-Stained Leaves (B9) (MLRA 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager eomorphic Position (D2) hallow Aquitard (D3)	1, 2,
Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo	rology Indicators ators (minimum of a Nater (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6)	one required	Water-Stained Leaves MLRA 1, 2, 4A, ar Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reductio Stunted or Stressed F	nd 4B) (B13) or (C1) es along Living Red iron (C4) on in Tilled Soils (CPlants (D1) (LRR	W Di Si poots (C3) G Si C6) F, A) R	later-Stained Leaves (B9) (MLRA 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)	1, 2,
Wetland Hyd Primary Indica Surface V High Wat Saturation Water Ma Sediment Drift Deput Algal Mat Iron Deput Surface S Inundation	Irology Indicators ators (minimum of other (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aerial	one reguired Imagery (87	Water-Stained Leaves MLRA 1, 2, 4A, ar Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Stunted or Stressed F Other (Explain in Ren	nd 4B) (B13) or (C1) es along Living Red iron (C4) on in Tilled Soils (CPlants (D1) (LRR	W Di Si poots (C3) G Si C6) F, A) R	later-Stained Leaves (B9) (MLRA 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagen eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)	1, 2,
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Primary Indicate Surface V High Water Mater Mate	lrology Indicators ators (minimum of or Nater (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aerial Vegetated Concaverations: er Present? Present? esent?	Imagery (B7 ve Surface (B7 Yes I Yes I	Water-Stained Leaves MLRA 1, 2, 4A, ar Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Stunted or Stressed F Other (Explain in Ren Depth (inches): Depth (inches):	(B13) or (C1) es along Living Red Iron (C4) on in Tilled Soils (CPlants (D1) (LRR narks)	W Di Si poots (C3) G Si C6) Fi A) Fi	later-Stained Leaves (B9) (MLRA 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)	1, 2,
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LI VCO	0.1	intains, Valleys, and Coast Region
Tojeorone.	City/County: Kedm	Sampling Date: 57-7
Applicant/Owner: PSE		State: Sampling Point:
nvestigator(s): Hamidi M Brawnell	Section, Township, Ra	
		convex, none): Concovic Slope (%): O
Subregion (LRR):	Lat.	Long: Datum:
Soil Map Unit Name: Tu Tukwila		NWI classification:
are climatic / hydrologic conditions on the site typical fo		
are Vegetation, Soil, or Hydrology are Vegetation, Soil, or Hydrology		"Normal Circumstances" present? Yes No eeded, explain any answers in Remarks.)
-		ocations, transects, important features, et
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Yes Yes	No Is the Samplec No within a Wetla	~
		11 1 21 1 2 2 2
Remarks: Outlets to magad dutc	h Below mo	127 228
/EGETATION – Use scientific names of p	lants.	guest total
T - 01-11 /6	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: PS) 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	% Cover Species? Status	Number of Dominant Species
2		That Are OBL, FACW, or FAC: (A)
3.		Total Number of Dominant Species Across Ali Strata: (B)
4		
18	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B
Sapling/Shrub Stratum (Piot size: 1. Rubus a menjacus	20% Y FIX	Prevalence Index worksheet:
2		Total % Cover of:Multiply by:
3		OBL species x 1 =
4.		FACW species x 2 =
5.		FAC species x 3 =
	20 = Total Cover	FACU species x 4 =
Herb Stratum (Plot size)		UPL species x 5 =
1. Phalaris arundinacea	90% Y FACW	Column Totals: (A) (B)
lithyrum felix -temina	17. N FAC	Prevalence Index = B/A =
3. Egisetem arvense	37. N FAC	Hydrophytic Vegetation Indicators:
1. Typha latificia	1/2 N OBL	1 - Rapid Test for Hydrophytic Vegetation
5		2 - Dominance Test is >50%
5.		3 - Prevalence Index is ≤3.0¹
7		 4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)
B		5 - Wetland Non-Vascular Plants ¹
9	1 - 1110	Problematic Hydrophytic Vegetation¹ (Explain)
11. 📆	100	Indicators of hydric soil and wetland hydrology must
	95 = Total Cover	be present, unless disturbed or problematic.
Noody Vine Stratum (Plot size:)	. Oldi Goroi	
1		Hydrophytic
		Vegetation
2		Present? Vac A Na
2	= Total Cover	Present? Yes X No

Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-5 10YR 2/2 100	@QQQQ	micky sut land
5-14 1073/1 97	a.sy 3/3 3 C M	10amy Jana
		w/s with UT 1 T
¹Type: C=Concentration D=Depletion R	M=Reduced Matrix, CS=Covered or Coated Sand Gra	ains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to a		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	3
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7) Redox Depressions (F8)	wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Restrictive Layer (if present):	Redux Depressions (Fo)	unless distalbed or problematic.
Type:		
Depth (inches):	_	Hydric Soil Present? Yes X No
Remarks:	Y64	
74-5 - 13		
HYDROLOGY Wetland Hydrology Indicators:	7.5	
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi	red; check all that apply)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi, Surface Water (A1)	red; check all that apply) Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2)	red: check all that apply) Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3)	red; check all that apply) Water-Stained Leaves (B9) (except	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	red; check all that apply) Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	red; check all that apply) Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	red; check all that apply) Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	red; check all that apply) Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery	red; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface	red; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required of the primary Indicators (minimum of one required of the primary Indicators (minimum of one required of the primary Indicators (Max 1) Sufface Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations:	red; check all that apply) Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required of the primary Indicators (minimum of one required of the primary Indicators (minimum of one required of the primary Indicators (Max) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes	red: check all that apply) — Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) — Salt Crust (B11) — Aquatic Invertebrates (B13) — Hydrogen Sulfide Odor (C1) — Oxidized Rhizospheres along Living Room — Presence of Reduced Iron (C4) — Recent Iron Reduction in Tilled Soils (C6) — Stunted or Stressed Plants (D1) (LRR A) (B7) — Other (Explain in Remarks) (B8) — No Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required of the primary Indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present?	red; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roov Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks) (B8) No Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required of the primary Indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	red; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): No Depth (inches): Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required of the primary Indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	red; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roov Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks) (B8) No Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required of the primary Indicators (minimum of one required of the primary Indicators (minimum of one required of the primary Indicators (Malan	red; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): No Depth (inches): Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required of the primary Indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	red; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): No Depth (inches): Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required of the primary Indicators (minimum of one required of the primary Indicators (minimum of one required of the primary Indicators (Malan	red; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): No Depth (inches): Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required of the primary Indicators (minimum of one required of the primary Indicators (minimum of one required of the primary Indicators (Marka (M	red; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): No Depth (inches): Wetla	Water-Stained Leaves (B9) (MLRA 1, 2,

WETLAND DETERMINATION DA			ntains, Valleys, and Coast Region 4
Project/Site: WLKC-P	City/0	County: Redmo	Sampling Date: 6/9/19
Applicant/Owner Hamidi and Braunel		- 25	State: Sampling Point: SP - 2
Investigator(s):	Secti	on, Township, Ra	nge:
Landform (hillslope, terrace, etc.): Rail embar (Loca	I relief (concave,	convex, none): Slope (%):
Subregion (LRR):	_ Lat:		Long: Datum:
			NWI classification:
Are climatic / hydrologic conditions on the site typical for this			
Are Vegetation, Soil, or Hydrology si			'Normal Circumstances" present? YesX No
Are Vegetation, Soil, or Hydrology n			eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing san	npling point le	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X		- TK	
Hydric Soil Present? Yes No	V	Is the Sampled	
Wetland Hydrology Present? Yes No	<u> </u>	within a Wetlar	nd? Yes No X
Remarks:	Dlasta		7807 235
	LVOIOZ	Cabo	234,653
VEGETATION – Use scientific names of plant	e	47 100	631
		ninant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	% Cover Spe	cies? Status	Number of Dominant Species
1. A Merzesti	mmi.	FACU FACU	That Are OBL, FACW, or FAC: (A)
2. Alovs rubra	601.	FAC FAC	Total Number of Dominant
3. Betula propyretora	40/	FAC	Species Across All Strata: (B)
4.	125 = To	4-1-0	Percent of Dominant Species 7
Sapling/Shrub Stratum (Plot size: 15		otal Cover	That Are OBL, FACW, or FAC: (A/B)
1. Rubus armenacis	40%	Y FAC	Prevalence Index worksheet:
2.			Total % Cover of: Multiply by: OBL species x 1 =
3			FACW species x 2 =
4.			FAC species x 3 =
5.	Чо _{= То}		FACU species x 4 =
Herb Stratum (Plot size: 5		otal Cover	UPL species x 5 =
1. Photoris arundinacen	20	FACW	Column Totals: (A) (B)
2.			Prevalence Index = B/A =
3.			Hydrophytic Vegetation Indicators:
4			1 - Rapid Test for Hydrophytic Vegetation
5.			2 - Dominance Test is >50%
6			3 - Prevalence Index is ≤3.0¹
7			4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8			5 - Wetland Non-Vascular Plants ¹
9			Problematic Hydrophytic Vegetation ¹ (Explain)
10 11			Indicators of hydric soil and wetland hydrology must
	20 = Tol	tal Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)			<u> </u>
1			Hydrophytic
2.			Vegetation Present? Yes No
% Bare Ground in Herb Stratum 20/	= Tot	al Cover	
Remarks:			I

~		ш	

Profile Descrip	otion: (Describe t	o the depth nee	ded to docun	ent the ir	ndicator or	r confirm	the absence	of indicators.)
Depth _	Matrix			Features				
(inches)	Color (moist)		or (moist)	%	Type ¹	Loc2	Texture	Remarks
					90			
<u> </u>	_							Page 18 and 18 a
					Same I	Page 1	- F19.3 N	
					-4-2	1.74	3/10/2	ET EL
l — — –			2.0			<u> </u>	1	at agree of the second of the second of
	1 14-21		HEI			2 at a	960,000	109 (000)
1								the little and the same
1Tune: C-C	tion D-Dti	tion DM-Doduc	and Markety, OC		04-4	Cand Can	21 -	actions DI - Dans I intro Manager
	centration, D=Depte licators: (Applica					Sand Gra		cation: PL=Pore Lining, M=Matrix. ors for Problematic Hydric Soils ³ :
Histosol (A			indy Redox (S		u.,			n Muck (A10)
Histic Epipe	72Ac		ripped Matrix				_	Parent Material (TF2)
Black Histic			amy Mucky M		(except N	/LRA 1)		/ Shallow Dark Surface (TF12)
Hydrogen S			amy Gleyed N					er (Explain in Remarks)
	elow Dark Surface		epleted Matrix				_	,
Thick Dark	Surface (A12)	Re	edox Dark Sur	face (F6)			3Indicato	rs of hydrophytic vegetation and
	ky Mineral (S1)	De	epleted Dark S	Surface (F7	7)		wetla	nd hydrology must be present,
	ed Matrix (S4)	Re	dox Depressi	ons (F8)			unles	s disturbed or problematic.
Restrictive Lay	er (if present):							
Туре:								
Depth (inche	es):						Hydric Soil	Present? Yes No
Remarks:	0 1	\ \ \		١ .	1	-	Λ	
	Kall	oad fil	1 - SO	no or	NO 0	TONO	l	
		70 1000 10			U	1		
HYDROLOGY	v	1111						
		Day 7.1	. 111			=		
	ology Indicators:			,			0	
-	ors (minimum of or	e requirea; chec						ndary Indicators (2 or more required)
Surface Wa	• •	-	_ Water-Stai			cept	— v	Vater-Stained Leaves (B9) (MLRA 1, 2,
High Water	. ,			l, 2, 4A, a	nd 4B)		_	4A, and 4B)
Saturation	` '	-	_ Salt Crust		(5.46)			rainage Patterns (B10)
Water Mark	` '	_	_ Aquatic Inv		` '			ry-Season Water Table (C2)
F-100	Deposits (B2)	_	_ Hydrogen :					aturation Visible on Aerial Imagery (C9)
Drift Depos	, ,	_	_ Oxidized R			ving Root	. , —	Seomorphic Position (D2)
	r Crust (B4)	-	_ Presence o			0-:1- (00)		hallow Aquitard (D3)
Iron Depos		_	_ Recent Iron			, ,		AC-Neutral Test (D5)
	il Cracks (B6) Visible on Assist In		_ Stunted or			(LKK A)		aised Ant Mounds (D6) (LRR A)
-0.00	Visible on Aerial In egetated Concave		_ Other (Exp	iam in Ker	narks)		<u> </u>	rost-Heave Hummocks (D7)
Field Observat	9	Surrace (D8)						
		. N= X	Daniel Car	t \.				
Surface Water F	Present? Ye	s No 🔀	10					× .
347.4								
Water Table Pro		s No_ X	Depth (inc			1		_ X
Saturation Pres	ent? Ye	s No s No	Depth (inc		25.0	1	nd Hydrolog	y Present? Yes No
Saturation Pres (includes capilla	ent? Ye	s No _ _	Depth (inc	hes):	25.3	Wetla		y Present? Yes No
Saturation Pres (includes capilla	ent? Ye	s No _ _	Depth (inc	hes):	25.3	Wetla		y Present? Yes No
Saturation Pres (includes capilla Describe Recor	ent? Ye	s No _ _	Depth (inc	hes):	25.3	Wetla		y Present? Yes No
Saturation Pres (includes capilla	ent? Ye	s No _ _	Depth (inc	hes):	25.3	Wetla		y Present? Yes No
Saturation Pres (includes capilla Describe Recor	ent? Ye	s No _ _	Depth (inc	hes):	25.3	Wetla		y Present? Yes No
Saturation Pres (includes capilla Describe Recor	ent? Ye	s No _ _	Depth (inc	hes):	25.3	Wetla		y Present? Yes No
Saturation Pres (includes capilla Describe Recor	ent? Ye	s No _ _	Depth (inc	hes):	25.3	Wetla		y Present? Yes No

roject/Site: Sammash- Jaunida		City/Count	v: KiA	og co.	Samplin	ng Date: 6-	4-19
pplicant/Owner: PSE	145			State:	A Samplin	a Point: SP	- Dito
vestigator(s): Hamidi, Brown	11-	Section T	ownship Rar	ode.	a Ne	Simel 3	-31
andform (hillslope, terrace, etc.):						Sione (%):	0
1							
ubregion (LRR): TU TUKWIG	Mu.			Long:		_	
				NWI d			
re climatic / hydrologic conditions on the site typical for th	is time of ye	ar? Yes_					
re Vegetation, Soil, or Hydrology	significantly	disturbed?	Are "	Normal Circumsta	nces" present?	Yes _X N	0
re Vegetation, Soil, or Hydrology	naturally pro	oblematic?	(If ne	eded, explain any	answers in Ren	narks.)	
SUMMARY OF FINDINGS – Attach site map	showing	sampli	ng point lo	ocations, tran	sects, impo	rtant feature	s, etc.
Hydrophytic Vegetation Present? Yes !			he Sampled				active No.
Hydric Soil Present? Yes				Area nd? Ye	s No	X	E
Wetland Hydrology Present? Yes I			DOT THE			ALITHOLICE IDEA ONL	1111
Remarks: Diten 15 South			124 ta		Prec; p	below	Down
y' wide ph	otas	216	-217				1/1
EGETATION – Use scientific names of plan	nts.						
E de la companya del companya de la companya del companya de la co	Absolute		t Indicator	Dominance Tes	st worksheet:	Self project of	
Tree Stratum (Plot size: 5	% Cover	Species'	Status	Number of Dom That Are OBL, F		3	(A)
2.				Total Number of	Dominant	2	
3				Species Across		_ >	(B)
4				Percent of Domi	inant Species		
0 - 1 - 10 - 1 - 0 - 1 - 0 - 1 - 1 - 1 -	0	_ = Total C	over	That Are OBL, F		100	(A/B)
Sapling/Shrub Stratum (Plot size: 5')	30	X	FAC	Prevalence Ind	ex worksheet:		
Lonicing involverate	3		1=Ac	Total % Cov	ver of:	Multiply by:	
2		_	FILE	OBL species	x	1 =	2163711
1				FACW species	x	2 =	10.48
5 % A SU MAN AND AND AND AND AND AND AND AND AND A				FAC species		_	3,8893103.
	33	_ = Total C	over	FACU species			- 3
Herb Stratum (Plot size:)				UPL species			-
. Phalaris arundinaces	_ 50		FACW	Column Totals:	(A	·)	_ (B)
JUNCUS effusus	5_	- 0-3-	FACW	Prevalence	e Index = B/A =	and make	01
3. Veronice americana	10		OBL	Hydrophytic Ve	egetation Indica	itors:	9
Equisetum aquense	5_	*_= 0.0=U	FAC	1 - Rapid Te	est for Hydrophy	tic Vegetation	V
. Callitriche heterophylla	_ 20_		OBL	🗶 2 - Dominar	nce Test is >50%	6	-
5	De RAI A	-			nce Index is ≤3.0		
7.					ogical Adaptatio Remarks or on a		
3				5 - Wetland			di.
9		- 2	Tank Min		: Hydrophytic Ve		in)
10	5.76.70	17.00			dric soil and we		
11	90	T. 10		be present, unle			liust
Noody Vine Stratum (Plot size:)	10	_= Total C	over				
1				Hydrophytic			
2.				Vegetation	64		
		_= Total C	over	Present?	YesX	No	
		_		I			
% Bare Ground in Herb Stratum				l			

Sampling Point: SP-DILCM

Depth Matrix			ox Features		. 2	- ·		
inches) Color (moist)		Color (moist)	_ <u> </u>	Type ¹	Loc ²	Texture	Rem	
5-3 loye 3/						Sunday 10am		gravel
3-6 104R41	2 100					Loamy Sand	80 8	gradel
Name of the			-	= -		- Ta 4 T		
<u>A 8 00</u>								
Гуре: C=Concentration, D=[Depletion, RI	M=Reduced Matrix, C	S=Covered	or Coated	d Sand G	rains. ² Location:	PL=Pore Lin	ing, M=Matrix.
ydric Soil Indicators: (App						Indicators for F		
Histosol (A1)		Sandy Redox ((S5)			2 cm Muck	(A10)	
Histic Epipedon (A2)		Stripped Matrix				Red Parent	Material (TF	(2)
Black Histic (A3)		Loamy Mucky) (except l	MLRA 1	Very Shallo	w Dark Surfa	ace (TF12)
Hydrogen Sulfide (A4)		Loamy Gleyed	Matrix (F2)				ain in Rema	
Depleted Below Dark Sur	face (A11)	Depleted Matri	x (F3)					
Thick Dark Surface (A12)		Redox Dark St	urface (F6)			³ Indicators of hy	drophytic ve	getation and
Sandy Mucky Mineral (S1	1)	Depleted Dark	Surface (F7	7)		wetland hydr		
_ Sandy Gleyed Matrix (S4)	Redox Depres	sions (F8)			unless distur	bed or proble	ematic.
estrictive Layer (if present):							
Туре:								
Depth (inches):						Hydric Soil Preser	it? Yes _	No <u></u>
Soud + que	lesse	fill ma	eterr	el 1	بر	disch		10 100
YDROLOGY Vetland Hydrology Indicato	ors:			el 1	<u>ب</u>	A COLOR	20/110	10 10
YDROLOGY Vetland Hydrology Indicato	ors:	red; check all that app	oly)		5	Secondary In		or more required)
YDROLOGY Vetland Hydrology Indicato Primary Indicators (minimum	ors:	red; check all that app	oly) ained Leave	es (B9) (ex	5	Secondary Ir	ained Leave	
YDROLOGY Vetland Hydrology Indicator Primary Indicators (minimum ✓ Surface Water (A1) ✓ High Water Table (A2)	ors:	red; check all that app Water-Sta MLRA	oly) ained Leave	es (B9) (ex	5	Secondary Ir Water-Si 4A, a	ained Leave	s (B9) (MLRA 1, 2,
YDROLOGY Vetland Hydrology Indicator Primary Indicators (minimum ✓ Surface Water (A1) ✓ High Water Table (A2) Saturation (A3)	ors:	red; check all that app Water-Sta MLRA Salt Crus	oly) ained Leave 3 1, 2, 4A, a t (B11)	es (B9) (ex nd 4B)	5	Secondary Ir Water-Si 4A, a ∠ Drainage	ained Leave nd 4B) Patterns (B	s (B9) (MLRA 1, 2,
YDROLOGY Vetland Hydrology Indicate Vrimary Indicators (minimum ✓ Surface Water (A1) ✓ High Water Table (A2) Saturation (A3) Water Marks (B1)	ors:	red; check all that app — Water-Sta MLRA — Salt Crus — Aquatic Ir	oly) ained Leave a 1, 2, 4A, a t (B11) nvertebrates	es (B9) (ex nd 4B) s (B13)	5	Secondary Ir Water-Si 4A, a Drainage Dry-Seas	ained Leave nd 4B) Patterns (B son Water Ta	s (B9) (MLRA 1, 2 , 10) able (C2)
YDROLOGY Vetland Hydrology Indicator Primary Indicators (minimum ✓ Surface Water (A1) ✓ High Water Table (A2) Saturation (A3)	ors:	red; check all that app — Water-Sta MLRA — Salt Crus — Aquatic Ir	oly) ained Leave 3 1, 2, 4A, a t (B11)	es (B9) (ex nd 4B) s (B13)	5	Secondary Ir Water-Si 4A, a Drainage Dry-Seas	ained Leave nd 4B) Patterns (B son Water Ta	s (B9) (MLRA 1, 2, 10) able (C2)
YDROLOGY Vetland Hydrology Indicator Primary Indicators (minimum ✓ Surface Water (A1) ✓ High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ors:	red; check all that app Water-Sta MLRA Salt Crus Aquatic Ir Hydroger Oxidized	oly) ained Leave 1, 2, 4A, a t (B11) nvertebrates n Sulfide Od Rhizospher	es (B9) (ex nd 4B) s (B13) for (C1) res along L	ccept Living Ro	Secondary Ir Water-Si 4A, a Drainage Dry-Sease Saturation oots (C3) Geomory	ained Leave nd 4B) Patterns (B son Water Ta n Visible on ohic Position	s (B9) (MLRA 1, 2, 10) able (C2) Aerial Imagery (C9 (D2)
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AECOM Report Environment

City of Kirkland

Field Data Forms

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region Project/Site: Gammanish - Junita City/County: Krwal / KING Sampling Date: [0.22.2017 State: WA Sampling Point: 98-1 ____ Section, Township, Range: Landform (hillslope, terrace, etc.): Kai load curtaint Local relief (concave, convex, none) quale Without Slope (%): Subregion (LRR): NWI classification: PEM Soil Map Unit Name: __ Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Y Are "Normal Circumstances" present? Yes ____ No X Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? N (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size:) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: ____) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 2 = FACW species FAC species x 3 = FACU species _____ x 4 = = Total Cover UPL species _____ Herb Stratum (Plot size: Column Totals: _____ (A) ____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ∠ 2 - Dominance Test is >50% __ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants1 Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 400 = Total Cover Woody Vine Stratum (Plot size: Hydrophytic Vegetation

= Total Cover

Present?

· · · · · · · · · · · · · · · · · · ·	oth needed to document the indicator or confirm	그 회사 하는 그는 그렇게 가장하고 그 그는 그 그래프 그래는 경험 얼마나 되는 것이 없었다.
Depth Matrix	Redox Features Color (moist) % Type ¹ Loc ²	Texture Remarks .
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	
10-1/2" 104R4/1 10		Min layer of Soil
		on rock!
unalece to Sam	ple below rock	
		:
	3 4	
¹ Type: C=Concentration, D=Depletion, RN	=Reduced Matrix, CS=Covered or Coated Sand Gra	ains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to al		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	→ Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	³ Indicators of hydrophytic vegetation and
Thick Dark Surface (A12)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches):		Hydric Soil Present? Yes X No
Pamarke:		
Problemet sils -	this layer of soil (assund) hydra dae
1 conserved - 1113	1 1	la landa la caclesa
to hidrefante vego	the method k	4200
orth		
HYDROLOGY		· · ·
Wetland Hydrology Indicators:	-:	
Wetland Hydrology Indicators: Primary Indicators (minimum of one require	ed; check all that apply)	Secondary Indicators (2 or more required)
	ed; check all that apply) Water-Stained Leaves (B9) (except	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
Primary Indicators (minimum of one require		
Primary Indicators (minimum of one require	Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	 Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) 	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	 Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Room Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region Project/Site: Gaman inh-thant2 City/County: Kylum / KING Sampling Date: 10. 22. 2017 Applicant/Owner: P55 State: WA Sampling Point: SC - K-B2 Investigator(s): 6M Section, Township, Range: Landform (hillslope, terrace, etc.): WILLSO Pe / Side Stop Eocal relief (concave, convex, none): Willshope Subregion (LRR): Soil Map Unit Name: ___ NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ____X No _____ Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? 🗡 (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Yes 🔏 No Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: UDLM VEGETATION - Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: 1. Olibus armeniacus Total % Cover of: Multiply by: **OBL** species **FACW** species **FAC** species FACU species 5 = Total Cover **UPL** species Column Totals: Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** ___ 1 - Rapid Test for Hydrophytic Vegetation 5. __ 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants1 _ Problematic Hydrophytic Vegetation¹ (Explain) 10. ¹Indicators of hydric soil and wetland hydrology must 11. be present, unless disturbed or problematic. 30 = Total Cover Wóody Vine Stratum (Plot size: __ Hydrophytic Vegetation Present? Total Cover

% Bare Ground in Herb Stratum

rofile Desci	ription: (Descr	ibe to	the dep	th needed	to docun	nent the	indicator	or confirm	the absence	of indic	ators.)	6	
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policant/Owner: PSE			State: <u>WA</u> Sai	mpling Point: 198-4-C
vestigator(s): 6M	Se	ection, Township, Ra	nge:	
ndform (hillslope, terrace, etc.):	<u> </u>	ocal relief (concave,	convex, none): <u>Concau</u>	Slope (%):
bregion (LRR): A	Lat:		_ Long:	Datum:
oil Map Unit Name:			NWI classification	1: -
e climatic / hydrologic conditions on the site typical	for this time of year	? Yes <u>%</u> No _	(If no, explain in Rema	rks.)
e Vegetation, Soil y , or Hydrology	significantly dis	sturbed? 🍎 Are	Normal Circumstances" prese	ent? Yes No X
e Vegetation, Soil, or Hydrology	naturally probl	ematic? 🖊 (If ne	eded, explain any answers in	Remarks.)
JMMARY OF FINDINGS – Attach site	map showing s	ampling point l	ocations, transects, in	portant features, et
Alydrophytic Vegetation Present? Alydric Soil Present? Ves Ves Ve	No No No	Is the Sampled within a Wetlar	Area 🗸	
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EGETATION – Use scientific names of			*	
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ree Stratum (Plot size:)	<u>% Cover</u> <u>S</u>	Species? Status	Number of Dominant Specie That Are OBL, FACW, or FA	
Andrews and the second			Total Number of Dominant Species Across All Strata:	
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apling/Shrub Stratum (Plot size:			Prevalence Index workshe	et:
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Phalais, arundinacea	20	Y FREW	Hydrophytic Vegetation In	/A =
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			3 - Prevalence Index is	≤3.0 ¹
			4 - Morphological Adap data in Remarks or o	
			5 - Wetland Non-Vascu	동생이다 시장하는 가득 전혀 가는 가는 이 이번만 나
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			Indicators of hydric soil and	그는 그 집사이 얼마나 아이는 그림에서 이번 때
0/16	B0 =	Total Cover	be present, unless disturbed	
oody Vine Stratum (Plot size:				
2.4 8858	es reassgantle Celle Co. M.	4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4	Hydrophytic	
			Vegetation Present? Yes	∠ No
		Total Cover		
Bare Ground in Herb Stratum 20 - 00	in water	l l		A 111

Profile Description: (Describe to the d	Redox Feature	es	- · · · · · · · · · · · · · · · · · · ·	
(inches) Color (moist) %	Color (moist) %	Type Loc²	<u>Texture</u>	Remarks
Thin layer of Soil	covering rocks	y Smile		1.4
unable to sample	helob rock	z Swfz	<u></u>	
7				A STATE OF THE STA
V	24		-	81
	unia in Kulayan ka			

Type: C=Concentration, D=Depletion, R	M=Reduced Matrix CS=Covere	ed or Coated Sand (Grains ² l oc	ation: PL=Pore Lining, M=Matrix.
Type: C=Concentration, D=Depletion, R Tydric Soil Indicators: (Applicable to	all LRRs, unless otherwise not	ted.)	Indicato	rs for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	•	W.	Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)		,——	Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F	1) (except MLRA		Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F:			er (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)		to grande and the second secon	
Thick Dark Surface (A12)	Redox Dark Surface (F6	·		rs of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (nd hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8))	unles	s disturbed or problematic.
Restrictive Layer (if present):				
Type:	er-error drawn (c. lade) da		l	n 10 V /
Depth (inches):	* · ·		Hydric Soil	Present? Yes 🛨 No
Problems Soils the weter vegetate.a	I hydrolegy	nd hydr	ic soils	supporting - Presine
Probleman Soils thin wethor vegetate.a OF Fill YDROLOGY	lager of asm	nd hydr perchi	ric soils	supporting Presine
Problement Soils the wether vegetate.a PT YDROLOGY Wetland Hydrology Indicators:		nd hydr percha		
Problem to Soils the Nethol Vegetahe. a The YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required)	ired; check all that apply)		Secon	ndary Indicators (2 or more required)
Problem Soils the wether vegetate a Full YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one request Surface Water (A1)	ired; check all that apply) Water-Stained Leav	ves (B9) (except	Secon	ndary Indicators (2 or more required) Vater-Stained Leaves (B9) (MLRA 1, 2,
Problement Soils the wether vegetate a Full YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one request Surface Water (A1) K High Water Table (A2)	ired; check all that apply) Water-Stained Leav MLRA 1, 2, 4A,	ves (B9) (except	V	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3)	ired; check all that apply) Water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11)	ves (B9) (except and 4B)	Secor V D	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10)
Probleman Soils the Western Vegetate. as The YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one request Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ired; check all that apply) Water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate	ves (B9) (except and 4B) es (B13)	Secor W D D	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	ired; check all that apply) Water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C	ves (B9) (except and 4B) es (B13) Odor (C1)	Secon W D D S	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requesting Mater (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ired; check all that apply) — Water-Stained Leav MLRA 1, 2, 4A, — Salt Crust (B11) — Aquatic Invertebrate — Hydrogen Sulfide C	ves (B9) (except and 4B) es (B13) Odor (C1) eres along Living R	Secon V D D Secons (C3) G	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9
Principle Could be seen to be see	ired; check all that apply) Water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc	ves (B9) (except and 4B) es (B13) Odor (C1) eres along Living R	Secor V D D S coots (C3) G	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9 eomorphic Position (D2) hallow Aquitard (D3)
Primary Indicators (minimum of one requested Marks (B1) Sediment Deposits (B4) Iron Deposits (B5) Iron Honey Marks (B1) Iron Deposits (B5) Iron Honey Marks (B5) Iron Deposits (B5)	ired; check all that apply) Water-Stained Leaver MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Condized Rhizosphe Presence of Reduction Reduction	ves (B9) (except and 4B) es (B13) Odor (C1) eres along Living R ced Iron (C4) tion in Tilled Soils (Secor	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9 eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Prince Soils + Inneres Soils + Inneres Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	ired; check all that apply) Water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Stunted or Stressed	ves (B9) (except and 4B) es (B13) Odor (C1) eres along Living R ced Iron (C4) tion in Tilled Soils (d	Secor	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9 eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Problems Soils Inn Wether Soils Inn Wether Soils Inn Wether Sufficient Sufficients Primary Indicators (minimum of one request Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery	ired; check all that apply) Water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Companies of Reduction Reduction Reduction Response (B7) Other (Explain in Reduction Reduction Response (B7)	ves (B9) (except and 4B) es (B13) Odor (C1) eres along Living R ced Iron (C4) tion in Tilled Soils (d	Secor	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9 eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Problem Soils + Inn Wether Soils + Inn Wether Soils + Inn Wether Soll Support Supp	ired; check all that apply) Water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Companies of Reduction Reduction Reduction Response (B7) Other (Explain in Reduction Reduction Response (B7)	ves (B9) (except and 4B) es (B13) Odor (C1) eres along Living R ced Iron (C4) tion in Tilled Soils (d	Secor	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9 eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Problems Soils + Innex Soils	ired; check all that apply) Water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stressed (B7) Other (Explain in Red	ves (B9) (except and 4B) es (B13) Odor (C1) eres along Living R ced Iron (C4) tion in Tilled Soils (d	Secor	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9 eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
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Primary Indicators: Primary Indicators (minimum of one requestive Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Water Table Present?	ired; check all that apply) Water-Stained Leaver MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Condized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stressee (B7) Other (Explain in Red (B8) No Depth (inches): No Depth (inches):	ves (B9) (except and 4B) es (B13) Odor (C1) eres along Living R ced Iron (C4) tion in Tilled Soils (ind Plants (D1) (LRR demarks)	Secor — V D D S Soots (C3) — G S C6) — F	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9 eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requestions) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present?	ired; check all that apply) Water-Stained Leaver MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Condized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stressee (B7) Other (Explain in Release) e (B8) No Depth (inches):	ves (B9) (except and 4B) es (B13) Odor (C1) eres along Living R ced Iron (C4) tion in Tilled Soils (ind Plants (D1) (LRR demarks)	Secor — V D D S Soots (C3) — G S C6) — F	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9 eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requestive Marks (Marks) Sufface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes Yes Yes Saturation Present?	ired; check all that apply) Water-Stained Leaver MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Condized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stressee (B7) Other (Explain in Release) (B8) No Depth (inches): No Depth (inches):	ves (B9) (except and 4B) les (B13) Ddor (C1) eres along Living R led Iron (C4) tion in Tilled Soils (Ind Plants (D1) (LRR lemarks) 4 0 0 0 Weight	Secor V D S coots (C3) G S C6) F A) F	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9 eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Primary Indicators: Primary Indicators (minimum of one requestive Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Water Table Present?	ired; check all that apply) Water-Stained Leaver MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Condized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stressee (B7) Other (Explain in Release) (B8) No Depth (inches): No Depth (inches):	ves (B9) (except and 4B) les (B13) Ddor (C1) eres along Living R led Iron (C4) tion in Tilled Soils (Ind Plants (D1) (LRR lemarks) 4 0 0 0 Weight	Secor V D S coots (C3) G S C6) F A) F	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9 eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requestive Marks (Marks) Water Marks	ired; check all that apply) Water-Stained Leaver MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Condized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stressee (B7) Other (Explain in Release) (B8) No Depth (inches): No Depth (inches):	ves (B9) (except and 4B) les (B13) Ddor (C1) eres along Living R led Iron (C4) tion in Tilled Soils (Ind Plants (D1) (LRR lemarks) 4 0 0 0 Weight	Secor V D S coots (C3) G S C6) F A) F	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9 eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Problems Soils + Innex Soils	ired; check all that apply) Water-Stained Leaver MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Condized Rhizosphe Presence of Reduce Recent Iron Reduce Stunted or Stressee (B7) Other (Explain in Release) (B8) No Depth (inches): No Depth (inches):	ves (B9) (except and 4B) les (B13) Ddor (C1) eres along Living R led Iron (C4) tion in Tilled Soils (Ind Plants (D1) (LRR lemarks) 4 0 0 0 Weight	Secor V D S coots (C3) G S C6) F A) F	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9 eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Problem Soils + Inn Problem Soils + Inn Problem Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes ✓ Water Table Present? Yes ✓ Saturation Present? Yes ✓ Saturation Present? Yes ✓ (includes capillary fringe) Describe Recorded Data (stream gauge,	ired; check all that apply) Water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Stunted or Stressed (B7) Other (Explain in Redect) e (B8) No Depth (inches): No Depth (inches): No Depth (inches):	ves (B9) (except and 4B) es (B13) Odor (C1) eres along Living Red Iron (C4) tion in Tilled Soils (d Plants (D1) (LRRemarks)	Secon	ndary Indicators (2 or more required) /ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region Project/Site Samramish - Juanti City/County: Firl / Kind Sampling Date: [1-22:2017 WA Sampling Point 16- 462 Applicant/Owner: Investigator(s): Section, Township, Range: ____ Landform (hillslope, terrace, etc.): 51 Le Stope Local relief (concave, convex, none): 6 nvey Slope (%): 3 _____ Lat: ______ Long: _____ Subregion (LRR): _____ Soil Map Unit Name: _ Are climatic / hydrologic conditions on the site typical for this time of year? Yes ________ No ______ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? / Are "Normal Circumstances" present? Yes X No _____ SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Disturbed up slope from railroad VEGETATION - Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: ____) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species _____ = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: _____) Prevalence Index worksheet: Total % Cover of: Multiply by: 2. _____ x1 = ____ OBL species 3. FACW species _____ x 2 = ____ FAC species _____ x 3 = ____ FACU species _____ x 4 = ____ = Total Cover UPL species _____ x 5 = ____ Column Totals: ____ (A) _____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 6. __ 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants¹ 10. Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must 11. be present, unless disturbed or problematic. Woody Vine Stratum (Plot size: ___ Hydrophytic Vegetation

Western Mountains, Valleys, and Coast – Version 2.0

Present?

Profile Des	cription: (Describe	to the depth	needed to docur	ment the i	ndicator o	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature	S1	12	Tankers	Damaria
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-16	64R3/2	40_		-			<u> 5L</u>	507. racks
	104241/2	<u>lo</u>					<u>su</u>	from am bouling
		•						·
	-							
		<u> </u>						
1Tuno: C=C	Concentration, D=Dep	oletion RM=F	Peduced Matrix C	S=Covere	d or Coate	d Sand Gr	ains ² l o	cation: PL=Pore Lining, M=Matrix.
Hydric Soil	I Indicators: (Applic	able to all Li	RRs, unless othe	rwise not	ed.)	u ounu on	Indicate	ors for Problematic Hydric Soils ³ :
Histoso			Sandy Redox (•			m Muck (A10)
	Epipedon (A2)		Stripped Matrix					d Parent Material (TF2)
	Histic (A3)		Loamy Mucky I		1) (except	MLRA 1)	Ver	y Shallow Dark Surface (TF12)
·	jen Sulfide (A4)		Loamy Gleyed	Matrix (F2	!)		Oth	er (Explain in Remarks)
Deplete	ed Below Dark Surfac	ce (A11) _	Depleted Matri					
**********	Dark Surface (A12)		Redox Dark Su					ors of hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark		7)			and hydrology must be present,
	Gleyed Matrix (S4)	·····	Redox Depress	sions (F8)			unies	ss disturbed or problematic.
	Layer (if present):							
Type:							Humbria Call	Present? Yes No 🗡
	nches):						Hydric Soi	rrieseliti les No
Remarks:								
ļ								
HYDROLO	OGY							,
	ydrology Indicators	•						
1	licators (minimum of		check all that app	lv)			Seco	ndary Indicators (2 or more required)
-	e Water (A1)	0110 100011001			es (B9) (e :	xcent		Water-Stained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		*******	1, 2, 4A,		жоорт		4A, and 4B)
	tion (A3)		Salt Crust		,		[Orainage Patterns (B10)
	Marks (B1)		Aquatic Ir	-	es (B13)			Ory-Season Water Table (C2)
	ent Deposits (B2)		Hydrogen					Saturation Visible on Aerial Imagery (C9)
	eposits (B3)					Living Roo	ots (C3) (Geomorphic Position (D2)
	Mat or Crust (B4)		Presence					Shallow Aquitard (D3)
	eposits (B5)		Recent Ire					FAC-Neutral Test (D5)
1	e Soil Cracks (B6)		Stunted o					Raised Ant Mounds (D6) (LRR A)
	ition Visible on Aerial	Imagery (B7)	Other (Ex	plain in Re	emarks)		F	Frost-Heave Hummocks (D7)
l ——	ely Vegetated Concav							
Field Obse	ervations:							
Surface Wa	ater Present?	Yes N	o <u>⊀</u> Depth (ir	nches):				
1			o <u>⊀</u> Depth (ir			ı		
Saturation			o Depth (ir	50 C		ı	and Hydrolog	gy Present? Yes No <u></u>
(includes c	apillary fringe)		•					
Describe R	Recorded Data (strear	n gauge, mor	nitoring well, aerial	photos, p	revious ins	spections),	ıt available:	
Remarks:	No and		1 1401	-12-1	1 1.	1	<u>~</u> 1	
'	No Guid	un o	Prod	Tan	i my	ar c	74	
	4 1 2 2		-		(٧ (* · ·
							•	

K-D

Project Site: STAN N Applicant/Owner: TAN N Investigator(s):	Couly land	Covia-	City/County:		ampling Date: 416
Landform (hillslope, terrace, etc.): Subregion (LRR): Soil Map Unit Name:	depreniende Lat	ure.		Section, Township, Range convex, none): (cv.(c), Q	Slope (%): <u>O</u>
Are climatic / hydrologic conditions or	n the site typical for this tim or Hydrology □, sk	e of year? Inificantly disturb	Yes 🗆 N	NWI classifi lo ☐ (If no, explain in F	
Are Vegetation . Soil . SUMMARY OF FINDINGS Att	or Hydrology □, /na	turally problemat	ic? (If needed,	al Circumstances" present? explain any answers in Rema	rks.) Yes No
SUMMARY OF FINDINGS - Atta Hydrophytic Vegetation Present?	Yes	sampling poin	nt locations, trans	sects, important features	, etc.
Hydric Soll Present? Wetland Hydrology Present? Remarks:	Yes Yes	10 No □	is the Sampled Al within a Wetland?		Yes 🛛 No
Notitiers:	rango da Nasar Maria Addisin Nasar da Nasar		eng kapangan gal Pangangan Pangangan dan kapangan	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
VEGETATION - Use scientific n					Alvinosa (algoria) Para polar propagation
Tree Stratum (Plot size:)	Absolute % Cover		Indicator Domi	nance Test Worksheet:	
2.	o a eta, ar eta. Paragiga		Numb That	er of Dominant Species Are OBL, FACW, or FAC:	
4		The state of the s	Total Specie	Number of Dominant S Across All Strata:	3
Sapling/Shrub Stratum (Plot size:	1	= Total Cove	reice	nt of Dominant Species are OBL, FACW, or FAC:	<u>67</u>
Hadrace ((P)? #%	A	1	ence Index worksheet: Total % Cover of:	NA 40 A
4.		14	OBL s		Multiply by:
5	-		FAC s	pecies	x2 =
Herb Stratum (Plot size:) 1	100%	2	ACU) FACU	species Pecies	x4 = x5 =
2 <u> </u>				Totals:(A), Prevalence Index	(B) ≠ B/A ≒
4			— Hydro; — □ 1	hytic Vegetation Indicators - Rapid Test for Hydrophytic	Vegetation
6. Side comment of the section is an experience of		Adyad	— P-2	- Dominance Test is >50% - Prevalence Index is ≤3.01	
7 1			The second secon	Morphological Adaptations¹ data in Remarks or on a sep	Provide supporting
10		e e in the second of the secon	100 to	- Wetland Non-Vascular Plan	를 가면 생각하는 것이 되었다. 1980년 - 1985년
11 20% =				oblematic Hydrophytic Veget	
Woody Vine Stratum (Plot size: 1. Puous at the MUS	on upot	= Total Cover	be presi	ors of hydric soil and wetland ent, unless disturbed or proble	nydrology must matic.
2	halas Toro	+ 1	Hydropi Vegetat		
% Bare Ground in Herb Stratum	, and the second second	= Total Cover	Present		TPL No □

- paul cound we SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features % Loca Type Color (moist) Color (moist) (inches) ²Location: PL=Pore Lining, M=Matrix Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) 2 cm Muck (A10) Sandy Redox (S5) ☐ Histosol (A1) Red Parent Material (TF2) Stripped Matrix (S6) Histic Epipedon (A2) П Very Shallow Dark Surface (TF12) Loamy Mucky Mineral (F1) (except MLRA 1) Black Histic (A3) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) wetland hydrology must be present, unless disturbed or problematic Redox Depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No Yes Hydric Solis Present? Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (minimum of one required, check all that apply) Water-Stained Leaves (B9) Water-Stained Leaves (B9) Surface Water (A1) (MLRA 1, 2, 4A, and 4B) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) Saturation (A3) Dry-Season Water Table (C2) Aquatic Invertebrates (B13) Water Marks (B1) Saturation Visible on Aerial Imagery (C9) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) M Geomorphic Position (D2) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) Shallow Aquitard (D3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) FAC-Neutral Test (D5) Recent Iron Reduction in Tilled Solis (C6) Iron Deposits (B5) Raised Ant Mounds (D6) (LRR A) Stunted or Stresses Plants (D1) (LRR A) Surface Soil Cracks (B6) Frost-Heave Hummocks (D7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Depth (inches): Surface Water Present? No Depth (inches): No Water Table Present? Yes Saturation Present? Wetland Hydrology Present? Depth (inches): No Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

US Army Corps of Engineers

Remarks:

Western Mountains, Valleys, and Coast - Version 2.0

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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region RIR CONVOR Project Site: City/County: Applicant/Owner: Sampling Date: Investigator(s): Sampling Point: Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Subregion (LRR): Long: Soll Map Unit Name: Datum: Are climatic / hydrologic conditions on the site typical for this time of year? NWI classification: (If no, explain in Remarks.) Are Vegetation Soil or Hydrology

. significantly disturbed? Are Normal Circumstances present? or Hydrology , naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Hydric Soil Present? is the Sampled Area within a Wetland? No Wetland Hydrology Present? No Yes No Remarks: VEGETATION - Use scientific names of plants Tree Stratum (Plot size: Absolute Dominant Indicator Dominance Test Worksheet: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) **≖** Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x1 = **FACW species** x2 = FAC species x3 = = Total Cover FACU species x4 = Herb Stratum (Plot size: **UPL** species x5 = Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants1 10, Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soll and wetland hydrology must = Total Cover be present, unless disturbed or problematic. Woody Vine Stratum (Plot size: Hydrophytic 50% Vegetation = Total Cover Present? % Bare Ground in Herb Stratum Remarks: US Army Corps of Engineers Western Mountains, Valleys, and Coast - Version 2.0

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	No.	
	PCG Wel	
Project Site:	130 100	
		V

Sampling Point:

Depth Mai	rix:		cument the indicator Redox Featu					
ches) Color (moist)	%	Color (mais		Type¹ Loc²	Textu	re	Remarks	* * *
1000	10						Soil 15 d	سدأمراد
TO THE		<u> </u>					*	- 7
Control (Control	berteh	VI	· <u></u>	manifest extension			1011-	osable needed
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		***************************************	Mining West	<u>1. 1981 (a.</u>				juso
	*	water water			۔ نندسین نن			
e: C# Concentration, D=	Depletion, RM≖	Reduced Matrix	c, CS≖Covered or Coa	ted Sand Grains.	² Location: F	L≖Pore Lining, I	/=Matrix	
ric Soil Indicators: (App	licable to all L	RRs, unless o	therwise noted.)		In	dicators for Pro	blematic Hydric Sol	ls³:
Histosol (A1)			Sandy Redox (S5)			2 cm Muck	(A10)	
Histic Epipedon (A2)			Stripped Matrix (S6)			Red Parent	Material (TF2)	1.
Black Histic (A3)			Loamy Mucky Minera	(F1) (except MLRA	(1)	Very Shallo	w Dark Surface (TF1	2)
Hydrogen Sulfide (A4)			Loamy Gleyed Matrix	(F2)		Other (Exp	aln in Remarks)	
Depleted Below Dark S	urface (A11)		Depleted Matrix (F3)					
Thick Dark Surface (A1	2)		Redox Dark Surface ((F6)	<u> </u>		10 mm (10 mm)	
Sandy Mucky Mineral (S1)		Depleted Dark Surfac	e (F7)	3 ₁₁		ophytic vegetation an ogy must be present,	d '
Sandy Gleyed Matrix ((4)		Redox Depressions (I	F8)			d or problematic.	
trictive Layer (if presen);							
4 :								
th (inches):				Hydric S	olls Present?		Yes 🔲	No 🗆
						yana ara ara ara ara ara ara ara ara ara		
AND ADDRESS OF THE PARTY OF THE	surge des des des des de la company							
tland Hydrology Indicat								
tland Hydrology Indicat nary Indicators (minimum		talan ing managapatan					rs (2 or more required	D
dand Hydrology Indicat nary Indicators (minimum Surface Water (A1)	of one required	l; check all that	Water-Stained Leave	7 -	Sec	Water-Stained	Leaves (B9)	ŋ
dand Hydrology Indicat nary Indicators (minimum Surface Water (A1) High Water Table (A2	of one required	O	Water-Stained Leave (except MLRA 1, 2,	7 -	0	Water-Stained (MLRA 1, 2, 4	Leaves (B9) A, and 4B))
tland Hydrology Indicat nary Indicators (minimum Surface Water (A1) High Water Table (A2 Saturation (A3)	of one required	0	Water-Stained Leave (except MLRA 1, 2, 4 Salt Crust (B11)	4A, and 4B)		Water-Stainer (MLRA 1, 2, 4 Drainage Pati	i Leaves (B9) A, and 4B) erns (B10)	Ŋ
tland Hydrology Indicat mary Indicators (minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	of one required	0	Water-Stained Leave (except MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebrates	4A, and 4B) s (B13)		Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V	i Leaves (B9) iA, and 4B) erns (B10) Vater Table (C2)	
tland Hydrology Indicat mary Indicators (minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B	of one required	0	Water-Stained Leave (except MLRA 1, 2, 4 Saft Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od	4A, and 4B) s (B13) or (C1)		Water-Stainer (MLRA 1, 2, 4 Drainage Pati Dry-Season V Saturation Vis	i Leaves (B9) A, and 4B) ems (B10) Vater Table (C2) ible on Aerial Imager	
tiand Hydrology Indicat mary Indicators (minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marka (B1) Sediment Deposits (B3)	of one required		Water-Stained Leave (except MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher	4A, and 4B) s (B13) for (C1) es along Living Roof		Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic R	I Leaves (B9) IA, and 4B) erns (B10) Vater Table (C2) Jobe on Aerial Imager Position (D2)	
tiand Hydrology Indicat mary Indicators (minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4	of one required	0	Water-Stained Leave (except MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospheri Presence of Reduced	4A, and 4B) is (B13) or (C1) es along Living Roof d Iron (C4)		Water-Stainer (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit	I Leaves (B9) A, and 4B) erns (B10) Vater Table (C2) bible on Aerial Imager Position (D2) ard (D3)	
tiand Hydrology Indicat nary Indicators (minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marka (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5)	of one required 2)	0 0 0 0 0	Water-Stained Leave (except MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduced Recent Iron Reduction	4A, and 4B) s (B13) or (C1) es along Living Rood d Iron (C4) on in Tilled Soils (C6)	s (C3)	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic i Shallow Aquit FAC-Neutral	I Leaves (B9) AA, and 4B) erns (B10) Vater Table (C2) ible on Aerial Imager Position (D2) ard (D3) Fest (D5)	
tland Hydrology Indicationary Indicators (minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I	of one required 2)	0 000000	Water-Stained Leave (except MLRA 1, 2, 4 Sait Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduced Recent Iron Reductio Stunted or Stresses I	4A, and 4B) 5 (B13) or (C1) es along Living Roof d Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A)	s (C3)	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	I Leaves (B9) AA, and 4B) ems (B10) Vater Table (C2) ible on Aerial Imager Position (D2) ard (D3) Test (D5) ounds (D6) (LRR A)	
tland Hydrology Indicat mary Indicators (minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Criscks (Inundation Visible on	of one required 2)) 16) Aerial Imagery (D D D D D D D D D D D D D D D D D D D	Water-Stained Leave (except MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduced Recent Iron Reduction	4A, and 4B) 5 (B13) or (C1) es along Living Roof d Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A)	s (C3)	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	I Leaves (B9) AA, and 4B) erns (B10) Vater Table (C2) ible on Aerial Imager Position (D2) ard (D3) Fest (D5)	
tland Hydrology Indicat mary Indicators (minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Aigal Mat or Crust (B4 Iron Deposits (B6) Surface Soli Cracks (I Inundation Visible on Sparsely Vegestated C	of one required 2)) 16) Aerial Imagery (D D D D D D D D D D D D D D D D D D D	Water-Stained Leave (except MLRA 1, 2, 4 Sait Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduced Recent Iron Reductio Stunted or Stresses I	4A, and 4B) 5 (B13) or (C1) es along Living Roof d Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A)	s (C3)	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	I Leaves (B9) AA, and 4B) ems (B10) Vater Table (C2) ible on Aerial Imager Position (D2) ard (D3) Test (D5) ounds (D6) (LRR A)	у (Сө)
tiand Hydrology Indicatemary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marka (B1) Sediment Deposits (B3) Aigal Mat or Crust (B4) Iron Deposits (B5) Surface Boil Criscks (Inundation Visible on Sparsely Vegetated C	of one required 2) 16) Aerial Imagery (oncave Surface	(B8)	Water-Stained Leave (except MLRA 1, 2, 4 Saft Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospheri Presence of Reduced Recent Iron Reductio Stunted or Stresses I Other (Explain in Rer	4A, and 4B) 5 (B13) or (C1) es along Living Roof d Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A)	s (C3)	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	I Leaves (B9) AA, and 4B) ems (B10) Vater Table (C2) ible on Aerial Imager Position (D2) ard (D3) Test (D5) ounds (D6) (LRR A)	
tiand Hydrology Indicat mary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marka (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C old Observations: riace Water Present?	of one required 2) 36) Aerial Imagery (bricave Surface	(B8)	Water-Stained Leave (except MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduced Recent Iron Reductio Stunted or Stresses I Other (Explain in Red	4A, and 4B) 5 (B13) or (C1) es along Living Roof d Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A)	s (C3)	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	I Leaves (B9) AA, and 4B) ems (B10) Vater Table (C2) ible on Aerial Imager Position (D2) ard (D3) Test (D5) ounds (D6) (LRR A)	у (Се)
tland Hydrology Indicat mary Indicators (minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marka (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soit Cracks (I Inundation Visible on Sparsely Vegetated C old Observations: rface Water Present?	of one required 2) 16) Aerial Imagery (oncave Surface	(B8)	Water-Stained Leave (except MLRA 1, 2, 4 Saft Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospheri Presence of Reduced Recent Iron Reductio Stunted or Stresses I Other (Explain in Rer	4A, and 4B) 5 (B13) or (C1) es along Living Roof d Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A)	s (C3)	Water-Stained (MLRA 1, 2, 4) Drainage Pati Dry-Season V Saturation Vis Geomorphic I Shallow Aquit FAC-Neutral Raised Ant M Frost-Heave I	d Leaves (B9) AA, and 4B) ems (B10) Vater Table (C2) ible on Aerial Imager Position (D2) ard (D3) Fest (D5) ounds (D6) (LRR A) Hummocks (D7)	y (C9)
High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Aigal Mat or Crust (B4 Iron Deposits (B5) Surface Bolf Cracks (I Inundation Visible on	of one required 2) 36) Aerial Imagery (bricave Surface	(B8)	Water-Stained Leave (except MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher Presence of Reduced Recent Iron Reductio Stunted or Stresses I Other (Explain in Red	4A, and 4B) 5 (B13) or (C1) es along Living Roof d Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A)	s (C3)	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	d Leaves (B9) AA, and 4B) ems (B10) Vater Table (C2) ible on Aerial Imager Position (D2) ard (D3) Fest (D5) ounds (D6) (LRR A) Hummocks (D7)	y (C9)
tiand Hydrology Indicat mary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marka (B1) Sediment Deposits (B3) Aigal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegeuned C eld Observations: rface Water Present? turation Present?	of one required 2)) Nerial Imagery (oncave Surface Yes Yes Yes Yes	(B8) No	Water-Stained Leave (except MLRA 1, 2, 4 Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospheri Presence of Reduced Recent Iron Reductio Stunted or Stresses I Other (Explain in Rer Depth (inches): Depth (inches):	4A, and 4B) s (B13) for (C1) es elong Living Roof d Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A) marks)	ss (C3)	Water-Stained (MLRA 1, 2, 4) Drainage Pati Dry-Season V Saturation Vis Geomorphic I Shallow Aquit FAC-Neutral Raised Ant M Frost-Heave I	d Leaves (B9) AA, and 4B) ems (B10) Vater Table (C2) ible on Aerial Imager Position (D2) ard (D3) Fest (D5) ounds (D6) (LRR A) Hummocks (D7)	y (C9)

Are Vegetation \(\begin{array}{ c c c c c c c c c c c c c c c c c c c	Project/Site: Sammamish-Juanita Transmission Line	Project	Cit	ty/County: <u>I</u>	Kirkland	Sampling Date: 6/4/2019
Local relief (concave, corvex, none): Concave Slope (%): Datum: Subregion (LRR): Lat: Long: Datum: Datum: Subregion (LRR): Lat: Long: Slope (May Datum: Datum: Subregion (LRR): A Lat: Long: Slope Slope (May Datum: Slope	Applicant/Owner: Puget Sound Energy				Stat	e: WA Sampling Point: SP-3
Solid Map Unit Name:	Investigator(s): JDB, GM		Se	ection, Town	ship, Range	::
Note	Landform (hillslope, terrace, etc.): ditch, swale		Lo	cal relief (co	oncave, conv	vex, none): concave Slope (%): 0
Are climatic / hydrologic conditions on the site typical for this time of year?	Subregion (LRR): A	Lat:			Long:	Datum:
New Yegetation	Soil Map Unit Name:					NWI Classification: PEM
State Stat	Are climatic / hydrologic conditions on the site typical	for this time	of year?	O Yes	s 🖲 No	(If no, explain in Remarks.)
Summary OF FinDINGS - Attach site map showing sampling point locations, transects, important features, etc.	Are Vegetation \square , Soil \square , or Hydrology \square	significantly	disturb	ed?	Are "N	lormal Circumstances" present?
Hydriophytic Vegetation Present?	Are Vegetation \square , Soil \square , or Hydrology \square	naturally pro	oblemat	ic?	(If nee	eded, explain any answers in Remarks.)
Hydric Soil Present? Pyes	SUMMARY OF FINDINGS – Attach site n	nap showi	ng sa	mpling p	oint locat	tions, transects, important features, etc.
Wetland Hydrology Present?	1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	_		Is the	Sampled A	
Remarks:	, , , , , , , , , , , , , , , , , , , ,	_		withi	n a Wetland	? • Yes O No
Absolute Dom. Relative Indicator Stratum (Plot size:	WETLAND K-D. Verification of sampling point taken changed to FAC		4, veget	tation has c	hanged sligh	ntly with less blackberry, indicator status for RUAR has
Absolute Dom. Relative Indicator Status Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)		•				Dominance Test worksheet:
2.	<u> </u>	% Cover	Sp.?	% Cover		Number of Dominant Species
Sapling/Shrub Stratum (Plot size: 15ft x 15ft 1. Spiraea douglasii 20	2					Total Number of Dominant
1. Spiraea douglasii	4					
Total % Cover of: Multiply by:		00	.,	400.0	E4 014/	Provalence Index worksheet
3.						
4	3.					
FAC species 20	l .					
Herb Stratum (Plot size: 5ft x 5ft)						
1. Phalaris arundinacea 100 Y 100.0 FACW Prevalence Index = B/A = 2.143 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation		20 :	= Total (Cover		FACU species 0 x 4 = 0
2.						
Prevalence Index = B/A = 2.143 4.					FACW	Column Totals:140 (A)300 (B)
4.						Prevalence Index = B/A = 2.143
5	4					Hydrophytic Vegetation Indicators:
6	_					1 - Rapid Test for Hydrophytic Vegetation
8						✓ 2 - Dominance Test is >50%
9. data in Remarks or on a separate sheet) 10.	7					
10						
11						<u> </u>
Moody Vine Stratum (Plot size: 15ft x 15ft) 20 Y 100.0 FAC Hydrophytic Vegetation Present? 1 Note Present? 1 Note Present Present Note Present Pres						
Woody Vine Stratum (Plot size: 15ft x 15ft) 1. Rubus armeniacus 20 Y 100.0 FAC Hydrophytic Vegetation Present? Yes No			 = Total (Cover		
2	Woody Vine Stratum (Plot size: 15ft x 15ft)		. 010.	0010.		
% Bare Ground in Herb Stratum 10 Vegetation Present? Vegetation Present?	Rubus armeniacus	20	<u>Y</u>	100.0	FAC	· ·
% Bare Ground in Herb Stratum 10		20 :	= Total (Cover		Vegetation No.
Remarks:	% Bare Ground in Herb Stratum10					Present?
1195	Remarks:					

SOIL Sampling Point: SP-3

Profile Desc	cription: (De	escribe to t	he depth	needed to	docume	ent the in	ndicator o	r confir	m the absence of ir	ndicators.)
Depth		Matrix				ox Featur				
(inches)	Color (n	noist)	%	Color (n	noist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-1										
1-6	10YR	2/2	98	10YR	5/6	2	C	М	Silt Loam	
>6										Unable to sample below 6"
	-									
1T 0 0										
¹ Type: C=Co								Sand G		ocation: PL=Pore Lining, M=Matrix. ors for Problematic Hydric Soils³:
☐ Histosol (() (☐ Sandy R			,			Muck (A10)
☐ Histic Epi	. ,			Stripped						Parent Material (TF2)
☐ Black Hist	tic (A3)			Loamy N	Лиску Mir	neral (F1)	(except N	/ILRA 1)	☐ Very	Shallow Dark Surface (TF12)
☐ Hydroger				Loamy (-				☐ Othe	r (Explain in Remarks)
-	Below Dark	•		Depleted						
☐ Thick Dar ☐ Sandy Mu				☑ Redox D ☐ Depleted			`			ors of hydrophytic vegetation and
Sandy Mc	-			Redox D		-	,			l hydrology must be present, disturbed or problematic.
Restrictive	-					()				
Type:	, , ,	,								
Depth (in	nches):								Hydric Soil P	Present?
Remarks:									,	
Previous dat	ta had evide	nce for F3 o	depleted r	natrix						
HYDROLO										
Wetland Hy										
Primary Indi		num of one	required				(DO) (ava			ary Indicators (2 or more required)
✓ Surface W✓ High Wate	` '	1		∟ wa	ter-Staine MLRA 1,		(B9) (exc	ері		er-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
✓ Saturation		,		☐ Salt	Crust (B		iu 4 <i>b)</i>			nage Patterns (B10)
Water Ma					ıatic Invei		(B13)			Season Water Table (C2)
☐ Sediment		2)		-	lrogen Su					ration Visible on Aerial Imagery (C9)
Drift Depo						•	along Liv	ing Root		norphic Position (D2)
☐ Algal Mat☐ Iron Depo		.)			sence of F		Iron (C4) n in Tilled :	Soils (C4		ow Aquitard (D3) Neutral Test (D5)
Surface S		6)					lants (D1)	-		ed Ant Mounds (D6) (LRR A)
☐ Inundatio	-	-	ery (B7)		er (Explai			(2,		-Heave Hummocks (D7)
☐ Sparsely \	Vegetated Co	oncave Surf	ace (B8)							
Field Obser	rvations:									
Surface Wat	ter Present?	Yes	O No	De _l	oth (inche	es):	3			
Water Table	Present?	Yes	O N		oth (inche	es):	0			
Saturation P		Yes	O N	De _l	oth (inche	es):	0	w	etland Hydrology I	Present? • Yes • No
	pillary fringe		auge, moi	nitoring well	l. aerial ni	hotos pre	evious insi	nections)), if available:	
20001100 110		. (Sassain ge	go, 11101	omig won	., adriai pi	, pro		- 50110110)	,, aranabio.	
Domestics										
Remarks: Data from 4/	/16/2014 obs	served 6" of	surface	vater						
										1104

Project/Site: Sammamish-Juanita Transmiss	ion Line Project	City/County:	Kirkland	Sam	pling Date:	6/4/2019	
Applicant/Owner: Puget Sound Energy	•	_ ′ ′-			pling Point:		
Investigator(s): JDB, GM		Section, Towr):			
Landform (hillslope, terrace, etc.): flat		Local relief (co	oncave, con	vex, none): none	s	lope (%): <u>60</u>	
Subregion (LRR): A	Lat:		Long:		Datum:		
Soil Map Unit Name:				NWI Classification	: upland		
Are climatic / hydrologic conditions on the sit	e typical for this time o	of year? O Yes	s 🖲 No	(If no, explain in	Remarks.)		
Are Vegetation 🔲 , Soil 🔲 , or Hydrolog	y significantly	disturbed?	Are "N	lormal Circumstances" p	resent?	Yes O) No
Are Vegetation 🔲 , Soil 🔲 , or Hydrolog	y 🔲 naturally pro	blematic?	(If nee	eded, explain any answer	s in Remark	s.)	
SUMMARY OF FINDINGS – Attach	site map showir	ng sampling p	oint loca	tions, transects, im	portant fo	eatures, et	tc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	'es 💿 No		Sampled <i>A</i> n a Wetland		es (No	
Remarks: Verification of sampling point taken on 4/16	•	changed slightly					
VEGETATION – Use scientific nan	ies of plants.			Dominance Test world	ksheet:		
Tree Stratum (Plot size:) 1	% Cover		Indicator Status	Number of Dominant S That Are OBL, FACW,	Species	2 (/	A)
2				Total Number of Domi	nant	3 (E	
4.		Total Cover		Percent of Dominant S That Are OBL, FACW,		66.7% (/	
Sapling/Shrub Stratum (Plot size: 15ft x 15				Prevalence Index wo	ulrah aati		
Oemleria cerasiformis		Y 100.0	FACU	Total % Cover of:		ultiply by:	
2. 3.				-	0 x1=	ultiply by: = 0	
4.				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	30 x 2 =		
5.				FAC species 4	0 x 3 =	120	
	=	Total Cover		· -	20 x 4 =	= 80	
Herb Stratum (Plot size: 5ft x 5ft)	20	V 400.0	E4 014/	· -	0 x 5 =		(D)
 Phalaris arundinacea 2. 	30	Y 100.0	FACW	Column Totals: 9	00 (A)	260	(B)
2. 3.				Prevalence Inde	x = B/A =	2.889	
4.				Hydrophytic Vegetati	on Indicator	's:	
5.				1 - Rapid Test for	Hydrophytic '	Vegetation	
6				2 - Dominance Tes			
7							
8.				4 - Morphological / data in Remark			
9				5 - Wetland Non-V	•	,	
10 11				☐ Problematic Hydro			in)
		Total Cover		¹Indicators of hydric so	. , .	` '	,
Woody Vine Stratum (Plot size:)			present, unless disturb			nust be
1. Rubus armeniacus	40	Y 100.0	FAC				
2				Hydrophytic			
% Bare Ground in Herb Stratum	<u>40 </u>	Total Cover		Vegetation Present?	Yes	O No	
Remarks:							
						1197	

SOIL									Sampling Point: SP-4				
Profile Desc	ription: (Describ	e to the dept	h needed to docum	ent the i	ndicator	or confirm	m the absence	e of inc	dicators.)				
Depth	Matri	X	Red	ox Featu	res								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Textu	·e	Remarks				
0-6	10YR 2/2	2 100					Gravelly Lo	Gravelly Loam Dry, friable, rock fragments					
>6									Shovel refusal, dense rock/fill				
1Typo: C-Co	noontration D-D	onlotion PM-	Paduaad Matrix, CS-	Covered	Lor Coato		roina	21.04	potion: DL - Daro Lining, M- Matrix				
			Reduced Matrix, CS= .RRs, unless otherv			J Sand G			cation: PL=Pore Lining, M=Matrix. rs for Problematic Hydric Soils³:				
☐ Histosol (/			Sandy Redox (S5		<i>.</i>				Muck (A10)				
Histic Epip	-		☐ Stripped Matrix (arent Material (TF2)				
☐ Black Histi			Loamy Mucky Mir) (except l	MLRA 1)			Shallow Dark Surface (TF12)				
Hydrogen			Loamy Gleyed Ma			,		☐ Other (Explain in Remarks)					
	Below Dark Surfa	ce (A11)	☐ Depleted Matrix (_		(=				
•	k Surface (A12)	` ,	Redox Dark Surfa	. ,			3	Indicato	rs of hydrophytic vegetation and				
	cky Mineral (S1)		☐ Depleted Dark Su		7)				hydrology must be present,				
-	eyed Matrix (S4)		Redox Depression	-	,				isturbed or problematic.				
Restrictive L	_ayer (if present)):											
Type:													
Depth (inc	ches):						Hydric	Soil Pr	esent? O Yes O No				
Remarks:	· .												
HYDROLO													
_	drology Indicato												
_		of one required	d; check all that apply					Secondary Indicators (2 or more required)					
Surface W			☐ Water-Staine			cept			-Stained Leaves (B9) (MLRA 1, 2,				
	High Water Table (A2) MLRA 1, 2, 4A, and 4B)								A, and 4B)				
	Saturation (A3) Salt Crust (B11)								age Patterns (B10)				
☐ Water Mar			Aquatic Inve			-	eason Water Table (C2)						
Sediment			Hydrogen Su			ation Visible on Aerial Imagery (C9)							
☐ Drift Depo			Oxidized Rhi		_	ving Root			orphic Position (D2)				
☐ Algal Mat			Presence of					_	w Aquitard (D3)				
☐ Iron Depo	• •		Recent Iron						leutral Test (D5)				
	oil Cracks (B6)		☐ Stunted or S			(LRR A)			d Ant Mounds (D6) (LRR A)				
	n Visible on Aerial Vegetated Concav		Other (Expla	in in Ren	narks)		L	_ Frost-	Heave Hummocks (D7)				
Field Observ	vations:												
Surface Water	er Present? O	Yes 💿 N	lo Depth (inche	es):									

O Yes No Water Table Present? Depth (inches): O Yes No O Yes No Saturation Present? Depth (inches): Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: 1198 US Army Corps of Engineers (WSDOT Adapted Form) Western Mountains, Valleys, and Coast - Version 2.0

Project/Site: Sammamish-Juanita Transmission I	_ine Project	Cit	ty/County:	Kirkland	Sampling Date: 6/4/2019						
Applicant/Owner: Puget Sound Energy		·	State: WA Sampling Point: SP-KD1								
Investigator(s): JDB, GM		Se	Section, Township, Range:								
					vex, none): concave Slope (%): 5						
<u></u>					Datum:						
				Long							
Soil Map Unit Name:			- 0 4	(A) 11	NWI Classification: PEM						
Are climatic / hydrologic conditions on the site typ		-			(,						
Are Vegetation 🔲 ,Soil 🔲 ,or Hydrology 🛘	_	y disturb	ed?	Are "N	Normal Circumstances" present? O Yes O No						
Are Vegetation \square , Soil \square , or Hydrology \square	naturally p	roblemat	tic?	(If nee	eded, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach sit	e map show	ing sa	mpling p	oint loca	tions, transects, important features, etc.						
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Yes	O No O No O No			e Sampled <i>A</i> n a Wetland							
Remarks:											
WETLAND K-D											
VEGETATION – Use scientific names	of plants.										
	Absolute	Dom.	Relative	Indicator	Dominance Test worksheet:						
<u>Tree Stratum</u> (Plot size:) 1	% Cover	Sp.?	% Cover	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)						
2.					Total Number of Dominant						
3.					Species Across All Strata:5(B)						
4.					Percent of Dominant Species						
		= Total	Cover		That Are OBL, FACW, or FAC: 100.0% (A/B)						
Sapling/Shrub Stratum (Plot size: 15ft x 15ft	_)										
Populus balsamifera			100.0	FAC	Prevalence Index worksheet:						
2					Total % Cover of: Multiply by:						
3					OBL species 75 x 1 = 75						
4					FACW species 10 x 2 = 20 FAC species 65 x 3 = 195						
5		= Total	Cover		FAC species 65 x 3 = 195 FACU species 0 x 4 = 0						
Herb Stratum (Plot size: 5ft x 5ft)		= Total	Covei		UPL species 0 x 5 = 0						
1. Phalaris arundinacea	5	N	3.4	FACW	Column Totals: 150 (A) 290 (B)						
Polygonum sp.		<u>Y</u>	17.2	FAC	(b)						
3. Lotus corniculatus	35	Y	24.1	FAC	Prevalence Index = B/A = 1.933						
4. Eleocharis palustris	15	N	10.3	OBL	Hydrophytic Vegetation Indicators:						
5. Typha latifolia	5	N	3.4	OBL	1 - Rapid Test for Hydrophytic Vegetation						
6. Juncus effusus	5	N	3.4	FACW							
7. Lemma minor	30	Υ	20.7	OBL	3 - Prevalence Index is ≤3.0¹						
8. Schoenoplectus acutus	25	<u>Y</u>	17.2	OBL	4 - Morphological Adaptations¹ (Provide supporting						
9					data in Remarks or on a separate sheet)						
10.					5 - Wetland Non-Vascular Plants ¹						
11					Problematic Hydrophytic Vegetation¹ (Explain)						
Woody Vine Stratum (Plot size: 15ft x 15ft	145	= Total	Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
1					Hydrophytia						
2		= Total			Hydrophytic Vegetation						
% Bare Ground in Herb Stratum10		- IUlai	O04 <u>6</u> 1		Present? • Yes • No						
Remarks:											
Herbecous plot truncated by uplands, 5ft x 2ft					1199						

SOIL Sampling Point: SP-KD1

			lepth nee				r confirm	n the absence of inc	licators.)		
Depth (inches)	Color (mois	trix t) %		color (moist)	ox Featur %	es Type¹	Loc ²	Texture		Remarks	;
0-2						<u> </u>			2" rock, de	ense fill railro	
2-8	10YR :	2/1 30		YR 4/6	2	C	M	Gravelly loam	70% rock		ara grana
>8								<u>Gravelly loans</u>		sample, dens	se rock
									Oriabic to	Sample, den	3C TOCK
			_								
	oncentration, D= Indicators: (Ap						Sand G			Pore Lining, M lematic Hydr	
☐ Histosol (phouble to		andy Redox (S5		·			Лuck (A10)	cinatio riyai	
☐ Histic Epip				tripped Matrix (arent Materi	al (TF2)	
☐ Black Hist				oamy Mucky Mir		(except N	/ILRA 1)			Surface (TF1	12)
☐ Hydrogen				oamy Gleyed Ma				☐ Other	(Explain in F	Remarks)	
	Below Dark Sur			epleted Matrix (
	k Surface (A12) ucky Mineral (S1			edox Dark Surfa epleted Dark Su		')			, ,	hytic vegetati ust be preser	
-	eyed Matrix (S4)			edox Depression		,			sturbed or p	•	π,
	Layer (if prese			· .					<u> </u>		
Type:											
Depth (in	iches):			_				Hydric Soil Pro	esent?	Yes	O No
Remarks:	-			_							
HYDROLO)GY										
Wetland Hy	drology Indica	tors:									
Primary India	cators (minimur	n of one requ	uired; che	ck all that apply	/)			Secondar	y Indicators	(2 or more r	equired)
☑ Surface W				☐ Water-Staine			ept			ives (B9) (ML	RA 1, 2,
✓ High Wate✓ Saturation					2, 4A, ar	nd 4B)			, and 4B)	(D10)	
■ Saturation ■ Water Ma				☐ Salt Crust (B☐ Aquatic Inve		(B13)			ge Patterns ason Water		
	Deposits (B2)			Hydrogen Su						on Aerial Ima	gery (C9)
☐ Drift Depo				Oxidized Rhi		_	ing Roots	s (C3) Geomo	orphic Positi	on (D2)	
Algal Mat				Presence of			o (o ()		w Aquitard (
☐ Iron Depo	osits (B5) oil Cracks (B6)			Recent IronStunted or S					eutral Test ((D5) s (D6) (LRR <i>F</i>	1)
	n Visible on Aer	ial Imagery (Other (Expla			(LKK A)		Heave Humr		1)
	Vegetated Conc			_ ` '		,		_		` ,	
Field Obser	vations:										
Surface Wat	ter Present?	Yes (O No	Depth (inche	es):	0.5					
Water Table	Present?	Yes (ON C	Depth (inche	es):	0					
Saturation P		Yes	O No	Depth (inche	es):	0	w	etland Hydrology P	esent?	Yes	O No
(includes cap Describe Re	pillary fringe) corded Data (st	ream dalide	monitori	ng well, aerial n	hotos pr	evious ins	pections)	. if available:			
20001100 110	Jordon Data (31	. sam gaago	,	.g from, donal p	, pi	271000 1110	- 5000110)	, aranazio.			
Dorselle											
Remarks:											
ı											
										120	^

Project/Site: Sammamish-Juanita Transmission Line	Project	Cit	y/County:	Kirkland	Sampling Date: <u>6/4/2019</u>				
Applicant/Owner: Puget Sound Energy			State: WA Sampling Point: SP-KD2						
Investigator(s): JDB, GM		Se							
Landform (hillslope, terrace, etc.): flat			cal relief (co	oncave, con	vex, none): none Slope (%): 0				
Subregion (LRR): A	Lat:			Long:	Datum:				
Soil Map Unit Name:					NWI Classification: upland				
Are climatic / hydrologic conditions on the site typical	I for this time	of year?	O Yes	• • N					
Are Vegetation \(\square\) , Soil \(\square\) , or Hydrology \(\square\)	significantly			Are "N	Normal Circumstances" present? Yes No				
Are Vegetation □ , Soil □ , or Hydrology □	naturally pro				eded, explain any answers in Remarks.)				
•					tions, transects, important features, etc.				
Hydrophytic Vegetation Present?	No No No			Sampled A					
	♥ No								
Remarks: Plot on top of railroad embankment shoulder paired VEGETATION – Use scientific names of									
	Absolute	Dom.	Relative	Indicator	Dominance Test worksheet:				
Tree Stratum (Plot size:) 1	% Cover		% Cover	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)				
2. 3.					Total Number of Dominant Species Across All Strata:1 (B)				
4		= Total (Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)				
Sapling/Shrub Stratum (Plot size: 15ft x 15ft)									
1					Prevalence Index worksheet:				
2.					Total % Cover of: Multiply by:				
3					OBL species 0 x 1 = 0 FACW species 0 x 2 = 0				
4					FAC species 0 x3 = 0				
		= Total (FACU species 2 x 4 = 8				
Herb Stratum (Plot size: 5ft x 5ft)					UPL species 0 x 5 = 0				
Hypochaeris radicata	2	Υ	100.0	FACU	Column Totals: (A) 8 (B)				
· · · ·					Prevalence Index = B/A = 4.000				
3					Hydrophytic Vegetation Indicators:				
4					1 - Rapid Test for Hydrophytic Vegetation				
56.					2 - Dominance Test is >50%				
7.					3 - Prevalence Index is ≤3.0¹				
8.					4 - Morphological Adaptations ¹ (Provide supporting				
9.					data in Remarks or on a separate sheet)				
10					5 - Wetland Non-Vascular Plants ¹				
11					Problematic Hydrophytic Vegetation¹ (Explain)				
Woody Vine Stratum (Plot size:)		= Total (¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
1					Hadron basis				
2		= Total (Cover		Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 98	=	- TOTAL V	COVGI		Present? O Yes No				
Remarks:									

SOIL Sampling Point: SP-KD2

	cription: (Describe to	the depth				r confirm	n the absence of inc	dicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Featur %	es Type¹	Loc ²	Texture		Remarks	
0-2		70	Color (molety	70	1,700		Toxtaro	2" rock	rtomano	<u> </u>
2-12	10YR 2/1	50					Gravelly loam		fragments	
	10110 2/1	30					Gravelly loain			rook/fill
>12				-				Shovel re	fusal, dense r	OCK/IIII
										
	oncentration, D=Depleti					Sand G			Pore Lining, M	
	Indicators: (Applicabl				d.)				lematic Hydr	ic Soils3:
☐ Histosol (•		Sandy Redox (S5					Muck (A10) arent Materi	ial (TE2)	
☐ Histic Epip☐ Black Hist			☐ Stripped Matrix (☐ Loamy Mucky Mi		(except N	/II RA 1)			iai (1F2) k Surface (TF1	12)
☐ Hydrogen	` '		Loamy Gleyed M		Сиссри	illiant 1)	-	(Explain in		12)
, ,	Below Dark Surface (A		☐ Depleted Matrix					` '	,	
	k Surface (A12)		Redox Dark Surf				³ Indicato	rs of hydrop	hytic vegetati	on and
-	icky Mineral (S1)		Depleted Dark Si		')				ust be preser	nt,
-	eyed Matrix (S4)		Redox Depressio	ns (F8)			unless di	sturbed or p	oroblematic.	
_	Layer (if present):									
Type:									O Yes	No
Depth (in	cnes):						Hydric Soil Pr	esent?	O 103	<u> </u>
Remarks: No hydric so	il indicators									
HYDROLO	GY									
Wetland Hy	drology Indicators:									
	cators (minimum of one	e required							s (2 or more r	
Surface W			☐ Water-Stain			ept			aves (B9) (ML	RA 1, 2,
☐ High Wate	• •		MLRA 1	, 2, 4A, ar	na 4B)			A, and 4B) ige Patterns	(P10)	
☐ Water Ma			☐ Aquatic Inve		(B13)			eason Water		
	Deposits (B2)		☐ Hydrogen Si						on Aerial Ima	igery (C9)
Drift Depo			Oxidized Rh			ing Roots		orphic Positi		3 3 ()
☐ Algal Mat	or Crust (B4)		☐ Presence of	Reduced	Iron (C4)		☐ Shallo	w Aquitard	(D3)	
☐ Iron Depo			Recent Iron					eutral Test		
	oil Cracks (B6)	(DZ)	Stunted or S			(LRR A)			ls (D6) (LRR <i>F</i>	4)
	n Visible on Aerial Imaç /egetated Concave Suri		☐ Other (Expla	ain in Rem	iarks)		☐ Frost-I	Heave Humi	mocks (D7)	
Field Obser		1400 (DO)								
		(A) N	O Danille Carlo	\						
Surface Wat	_	⊚ N	. `			—				
Water Table Saturation P	_	● N					etland Hydrology P	resent?	O Yes	No
(includes cap		9 10	o Depin (inch	<u> </u>		— * v	etland Hydrology P	i cociii (O ies	IJ.
	corded Data (stream g	auge, mo	nitoring well, aerial p	hotos, pr	evious ins	pections)	, if available:			
Domonico										
Remarks: No evidence	of wetland hydrology									
									120	2

Project/Site: Sammamish-Juanita Transmission Lin	ne Project	City/	County: <u>I</u>	Kirkland	Sampling Date: 6/4/2019
Applicant/Owner: Puget Sound Energy				Stat	e: WA Sampling Point: SP-KDD1
Investigator(s): JDB, GM		Secti	ion, Town	ship, Range	::
Landform (hillslope, terrace, etc.): depression		Loca	l relief (co	oncave, conv	vex, none): concave Slope (%): 5
Subregion (LRR): A	Lat:			Long:	Datum:
Soil Map Unit Name:					NWI Classification: PEM
Are climatic / hydrologic conditions on the site typic	cal for this time o	of year?	O Yes	o ⊙ No	(If no, explain in Remarks.)
Are Vegetation \square , Soil \square , or Hydrology \square	significantly	disturbed	l?	Are "N	lormal Circumstances" present? O Yes O No
Are Vegetation \square , Soil \square , or Hydrology \square	naturally pro	blematic	?	(If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site	map showii	ng sam	pling p	oint locat	tions, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Yes Yes	O No O No O No			Sampled A	
Remarks:	and K-D and util	ity box. T	hree culve	ert converge	in wetland. Wetland highly distrubed surrounding area
	- piaritoi				Dominance Test worksheet:
Tree Stratum (Plot size:) 1	% Cover	Sp.? %		Indicator Status	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2					Total Number of Dominant Species Across All Strata: 2 (B)
4	=	Total Co	ver		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:) 1.					Prevalence Index worksheet:
1					Total % Cover of: Multiply by:
3.					OBL species 0 x 1 = 0
A					FACW species 100 x 2 = 200
5					FAC species 45 x 3 = 135
Hart Observe (District Fig. 50	=	= Total Co	ver		FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5ft x 5ft) 1. Phalaris arundinacea	100	Y	71.4	FACW	UPL species 0 x 5 = 0 Column Totals: 145 (A) 335 (B)
Equisetum arvense	20		14.3	FAC	
3. Lotus corniculatus	20	N	14.3	FAC	Prevalence Index = B/A = 2.310
4.					Hydrophytic Vegetation Indicators:
5					1 - Rapid Test for Hydrophytic Vegetation
6.					2 - Dominance Test is >50%
7		— –			3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting)
8 9.					 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
10.					5 - Wetland Non-Vascular Plants ¹
11.					☐ Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 15ft x 15ft)		= Total Co	over		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Rubus armeniacus		<u>Y</u> _	100.0	FAC	
2	5 =	= Total Co	over		Vegetation Present? Yes No
Remarks:					
					1203

SOIL Sampling Point: SP-KDD1

	ription: (De		the depti	n needed				r confirn	n the absence of inc	dicators.)		
Depth (inches)	Color (m	Matrix	%	Color (ox Featur %	es Type¹	Loc ²	Texture		Remarks	
0-6	10YR	2/1	70	00101 (moioty		Турс		Gravelly loam	Matrix inc	ludes cobble	
				10VP	1/6	10				Watrix IIIC	iddes copple	and garbage
6-20	10YR	4/1	70	10YR	4/6	10	<u> </u>	<u>M</u>	Gravelly loam			
												_
¹Type: C=Co	ncentration.	D=Deple	tion. RM=F	Reduced M	latrix. CS=	-Covered	or Coated	Sand G	rains. ² Loc	ation: PL=F	Pore Lining, M	1=Matrix.
Hydric Soil											lematic Hydr	
☐ Histosol (A1)			☐ Sandy	Redox (S5	5)			☐ 2 cm l	Muck (A10)		
☐ Histic Epip	pedon (A2)			_	ed Matrix (arent Mater		
☐ Black Hist				_	Mucky Mir		(except N	/ILRA 1)	-		Surface (TF)	12)
Hydrogen					Gleyed Ma				□ Other	(Explain in	Remarks)	
☐ Depleted ☐ Thick Dar		•	ATT)		ed Matrix (Dark Surfa				a			
Sandy Mu	•	•			ed Dark Su)				hytic vegetati lust be preser	
☐ Sandy Gle					Depression	•	,				oroblematic.	π,
Restrictive I	Layer (if pre	esent):										
Туре:												
Depth (in	ches):								Hydric Soil Pr	esent?	Yes	O No
Remarks:												
l												
HYDROLO	GY											
Wetland Hy	drology Ind	icators:										
Primary India		num of or	ne required				<i>(</i> ==) <i>(</i>				s (2 or more r	
Surface W				ЦW	ater-Staine			ept			aves (B9) (ML	.RA 1, 2,
✓ High Wate✓ Saturation)		Пѕа	, MILKA I Ilt Crust (B	, 2, 4A, ar 811)	iu 46)			A, and 4B) ge Patterns	(R10)	
☐ Water Mai					quatic Inve		(B13)				r Table (C2)	
Sediment		2)			/drogen Su						on Aerial Ima	igery (C9)
☐ Drift Depo					kidized Rhi	-	_	ing Roots	s (C3) Geom	orphic Positi	ion (D2)	
Algal Mat)			esence of					w Aquitard		
Iron Depo					ecent Iron					eutral Test		
Surface So	-		ngory (P7)		unted or S her (Expla			(LRR A)		i Ant Mound Heave Humi	ls (D6) (LRR A	A)
Sparsely V					лет (схріа	IIII III Ken	iai K3)		☐ 1103t-1	leave Hulli	ITIOCKS (D7)	
Field Obser												
Surface Wat		O Yes	⊚ N	o D	epth (inche	oc).						
Water Table		Yes	O N		epth (inche		9	-				
Saturation P		Yes	O N		epth (inche		4	— I w	etland Hydrology P	resent?	Yes	O No
(includes cap			•	о <u>Б</u> ,	opui (iiione			— I "	caana riyarology r	COCIII.	O 103	O No
Describe Re	corded Data	(stream (gauge, mo	nitoring we	ell, aerial p	hotos, pre	evious ins	pections)	, if available:			
Remarks:												
Romans.												
Ī											120	1

	ie Project	O	ty/County.	Kirkland	Sampling Date: 6/4/2019				
Applicant/Owner: Puget Sound Energy	•		City/County: Kirkland Sampling Date: 6/4/2019 State: WA Sampling Point: SP-KDD2						
nvestigator(s): JDB, GM		Se	ection, Towr		e:				
andform (hillslope, terrace, etc.): flat			ocal relief (co	oncave, con	vex, none): none Slope (%): 0				
Subregion (LRR): A	Lat:			Long:	Datum:				
Soil Map Unit Name:					NWI Classification: upland				
Are climatic / hydrologic conditions on the site typic	al for this time	of year	? O Yes	s 🖲 N					
Are Vegetation . , Soil . , or Hydrology .	significantl	-		Are "N	Normal Circumstances" present? Yes No				
Are Vegetation , Soil , or Hydrology	naturally p	, oblema	tic?		eded, explain any answers in Remarks.)				
•	, ,				tions, transects, important features, etc.				
Hydrophytic Vegetation Present? Hydric Soil Present? O Yes O Yes Wetland Hydrology Present? O Yes	No No No			Sampled A	O				
/EGETATION – Use scientific names o	f plants.								
	Absolute	Dom.	Relative	Indicator	Dominance Test worksheet:				
<u>Tree Stratum</u> (Plot size:) 1	% Cover	Sp.?	% Cover	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)				
2					Total Number of Dominant Species Across All Strata: 4 (B)				
4.		= Total			Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)				
Sapling/Shrub Stratum (Plot size: 15ft x 15ft)									
1. Cytisus scoparius		<u>Y</u>	100.0	UPL	Prevalence Index worksheet:				
2					Total % Cover of: Multiply by: OBL species 0 x 1 = 0				
3. 4.					OBL species 0 x 1 = 0 FACW species 0 x 2 = 0				
5.					FAC species 5 x 3 = 15				
	5	= Total	Cover		FACU species 12 x 4 = 48				
Herb Stratum (Plot size: 5ft x 5ft)					UPL species 5 x 5 = 25				
1. Cirsium vulgare	5	<u>Y</u>	29.4	FACU	Column Totals: (A) 88 (B)				
2. Equisetum arvense	_ 5	<u>Y</u>	29.4	FAC	Prevalence Index = B/A = 4.000				
 Hypochaeris radicata Hypericum perforatum 	_ 5	<u>Y</u> N	<u>29.4</u> 11.8	FACU FACU	Hydrophytic Vegetation Indicators:				
				TACO	☐ 1 - Rapid Test for Hydrophytic Vegetation				
5. 6.					2 - Dominance Test is >50%				
7.					3 - Prevalence Index is ≤3.0¹				
8.					4 - Morphological Adaptations¹ (Provide supporting				
9.					data in Remarks or on a separate sheet)				
10					5 - Wetland Non-Vascular Plants ¹				
11					Problematic Hydrophytic Vegetation¹ (Explain)				
Woody Vine Stratum (Plot size:)		= Total	Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
1					Hydrophytic				
2		= Total	Cover		Hydrophytic Vegetation				
% Bare Ground in Herb Stratum		· otal			Present? O Yes No				
Remarks:									

SOIL Sampling Point: SP-KDD2

Profile Description Depth	Matrix			ox Featur						
	or (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	_	Remarks	
0-4			_					1" cobble	railroad fill	
4-6 10YF	R 3/2						Gravelly loam	80% rock	fragments	
									fusal, dense r	ock/fill
								011070110	radai, adrido i	30101111
							-			
							-	_		
							-			
Type: C=Concentra Hydric Soil Indicate						d Sand Gr		Location: PL=F		
	715. (Applica				u. <i>)</i>				emane nyun	C Solis.
	12)		☐ Sandy Redox (S5 ☐ Stripped Matrix (\$)					m Muck (A10) d Parent Materi	al (TE2)	
☐ Histic Epipedon (/ ☐ Black Histic (A3)	12)		☐ Loamy Mucky Mir		(excent l	MIRA 1)		y Shallow Dark		2)
☐ Hydrogen Sulfide	(Δ4)		Loamy Gleyed Ma		САССРЕ	VILIXA I)		ner (Explain in I		2)
Depleted Below D			☐ Depleted Matrix (_ 011	ioi (Explain III		
☐ Thick Dark Surface	,	· · · · _	Redox Dark Surfa				3lndio	ators of hydrop	hytic vegetation	nn and
Sandy Mucky Min	• •		Depleted Dark Su		')			ators of flydrop nd hydrology m		
Sandy Gleyed Ma			Redox Depression	•	•			s disturbed or p		-,
Restrictive Layer (i	f present):		•							
Type:										
Depth (inches):							Hydric Soil	Present?	O Yes	No
Remarks:							,			
IYDROLOGY										
Wetland Hydrology										
Primary Indicators (r		ne required;			(DO) (dary Indicators		
Surface Water (A	-		☐ Water-Staine			cept	∟ wa	ter-Stained Lea	aves (B9) (MLI	RA 1, 2,
High Water Table	(A2)			2, 4A, ar	na 4B)		□ ⊳	4A, and 4B)	(D10)	
Saturation (A3)			☐ Salt Crust (B		(D12)			iinage Patterns r-Season Water		
☐ Water Marks (B1)☐ Sediment Deposit			☐ Aquatic Inve☐ Hydrogen Su				-	uration Visible		aony (CO)
☐ Sediment Deposit ☐ Drift Deposits (B3			Oxidized Rhi			ina Poots		omorphic Positi		gery (C9)
Algal Mat or Crust	•		☐ Presence of			virig Roots		allow Aquitard		
Iron Deposits (B5			Recent Iron			Soils (C6)		C-Neutral Test		
☐ Surface Soil Crack			☐ Stunted or S					sed Ant Mound	. ,)
Inundation Visible		agery (B7)	Other (Expla			, (=::::,)		st-Heave Humi		,
☐ Sparsely Vegetate			_ ` '		•		_		, ,	
Field Observations	:									
Surface Water Prese	ent? O Yes	No	Depth (inche	es):						
Water Table Presen	_					_				
Saturation Present?	O Yes	-				— I w	etland Hydrology	/ Present?	O Yes	No
(includes capillary fri		• • • • • • • • • • • • • • • • • • •	Dopur (mone	.5).		— I "	chana riyarologi	, i resent.	O 103	O 110
Describe Recorded		gauge, mon	itoring well, aerial p	hotos, pre	evious ins	pections)	, if available:			
Damada										
Remarks:										
									120	4

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site January Sampling Date: 10-22-2017 State: WA Sampling Point: 50. KEI Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): Swall (a) soft emballed (concave, convex, none): Gnave Slope (%): D Subregion (LRR): ____ Soil Map Unit Name: _ NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes ___X__ No (If no, explain in Remarks.) Are Vegetation _____, Soil _ \(\), or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: Percent of Dominant Species __ = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species ____x1= FACW species ____ x 2 = FAC species ____ x 3 = FACU species _____ x 4 = ___ = Total Cover UPL species _____ x 5 = _ Column Totals: _____ Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation ★ 2 - Dominance Test is >50% A second of the second 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants1 Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Woody Vine Stratum (Plot size: Hydrophytic Vegetation

= Total Cover

Present?

Profile Description: (Describe to the depth needed to document the indicator or co	nfirm the absence of indicators.)
Depth Matrix Redox Features	Z Tardina Barrata
(inches) Color (moist) % Color (moist) % Type¹ Log	Texture Remarks
Only attin layor of Soil in space	perau
rock used to build up call const	anoba
to sample	
,	
	21 analism DI - Dana Lining ManMatrix
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sar Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	nd Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2) Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLR	A 1) Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	∠Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Matrix (F3)	3
Thick Dark Surface (A12) Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8)	wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer (if present):	driess distarbed of problematic.
Type:	
Depth (inches):	Hydric Soil Present? Yes _ 1/2 No
assured hydru soils due to method	vegetm. presnæ ob
411.	
	- 1
HYDROLOGY	
•	·
Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ✓ Surface Water (A1) Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ✓ Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ✓ Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ✓ Saturation (A3) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ★ Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ★ Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ✓ Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ✓ Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ✓ Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ✓ Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ✓ Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ✓ Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ✓ Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ✓ Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) s (C6) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ✓ Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ✓ Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soil Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LF Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) s (C6) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ★ Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ★ Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soil Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) S (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ✓ Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ✓ Saturation (A3) Salt Crust (B11) — Water Marks (B1) Aquatic Invertebrates (B13) — Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) — Drift Deposits (B3) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) — Iron Deposits (B5) Recent Iron Reduction in Tilled Soil Surface Soil Cracks (B6) — Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) — Sparsely Vegetated Concave Surface (B8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) S (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ★ Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ★ Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) — Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) — Drift Deposits (B3) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) — Iron Deposits (B5) Recent Iron Reduction in Tilled Soil — Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LF — Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) — Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) S (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ★ Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ★ Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soil Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LF) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes X No Depth (inches): 2 Water Table Present? Yes X No Depth (inches): 2	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) S (C6) FAC-Neutral Test (D5) RR A) RR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ★ Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ★ High Water Table (A2) MLRA 1, 2, 4A, and 4B) ★ Saturation (A3) Salt Crust (B11) _ Water Marks (B1) Aquatic Invertebrates (B13) _ Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) _ Drift Deposits (B3) Oxidized Rhizospheres along Living Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) _ Iron Deposits (B5) Recent Iron Reduction in Tilled Soil Surface Soil Cracks (B6) _ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) _ Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes X No Depth (inches): 2 Water Table Present? Yes X No Depth (inches): 2 Saturation Present? Yes X No Depth (inches): 4	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) S (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) ★ Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ★ Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soil Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LF) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: No Depth (inches): Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections inspections in the property of the property	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) S (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes X No

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region Project/Site: Gammans h- frantz City/County: KIV Land / KING Sampling Date: (6.22-2017 Applicant/Owner: PSE Investigator(s): _____ Section, Township, Range: _____ Arca Slope Local relief (concave, convex, none): Convex Slope (%): 20 Landform (hillslope, terrace, etc.): Subregion (LRR): _ __ Lat: _____ Long: ____ Soil Map Unit Name: ____ NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _______ No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? V Are "Normal Circumstances" present? Yes X No _____ Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? ν (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Yes No Hydrophytic Vegetation Present? Is the Sampled Area Yes _____ No <u>X</u> Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes _____ No ______ area adjourn VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: **Total Number of Dominant** Species Across All Strata: (B) Percent of Dominant Species _____ = Total Cover That Are OBL, FACW, or FAC: (A/B) Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ FACW species _____ x 2 = ___ FAC species _____ x3= ____ FACU species _____ x 4 = ___ _____ x 5 = ____ UPL species Column Totals: _____ (A) ____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: _ 1 - Rapid Test for Hydrophytic Vegetation 5. ∠2 - Dominance Test is >50% __ 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Woddy Vihe Stratum (Plot size: _____) Hydrophytic Vegetation Present? = Total Cover % Bare Ground in Herb Stratum Remarks:

Profile Desc	cription: (Describ	e to the depth n	eeded to docun	nent the ir	ndicator	or confirm	the absence	of indica	tors.)	•
Depth	Matrix		Redo	x Features		1 - 2	T			
(inches)	Color (moist)		Color (moist)	%	Type ¹	_Loc ²	Texture	73.1	Remarks	
0-12	10484/2	50_					<u>SL</u>	50%	100h	

¹Type: C=C	oncentration, D=De	enletion RM=Rec	duced Matrix, CS	=Covered	or Coate	ed Sand G	rains. ² Lo	cation: PL	=Pore Lining, N	∕I=Matrix.
	Indicators: (Appl								blematic Hydi	
Histosol			Sandy Redox (S		·		2 c	m Muck (A	10)	
	pipedon (A2)		Stripped Matrix						aterial (TF2)	
	istic (A3)		Loamy Mucky N) (except	t MLRA 1)	1		Dark Surface (ΓF12)
1	en Sulfide (A4)		Loamy Gleyed I	Matrix (F2))		Oth	ner (Explair	ı in Remarks)	
	d Below Dark Surfa	ace (A11)	Depleted Matrix				* •			
,	ark Surface (A12)	***********	Redox Dark Sui					•	ophytic vegetat	
1	Mucky Mineral (S1)		Depleted Dark S		7)			-	ogy must be pre	
	Gleyed Matrix (S4)		Redox Depress	ions (F8)			unie	ss disturbe	d or problemati	С.
	Layer (if present):									
1		***************************************	-				Liveleia Cai	l Dranaut?	. Van	No X
	iches):					***************************************	Hydric Soi	i Present?	' Yes	_ NO
Remarks:										
					1		•			
						<u> </u>			×	
HYDROLO	GY									
Wetland Hy	drology Indicator	s:								
1	cators (minimum o		neck all that apply	v)			Seco	ndary Indic	cators (2 or mo	re required)
	Water (A1)		Water-Stai		es (B9) (e	xcept			ned Leaves (B9	
	ater Table (A2)			1, 2, 4A, a		жоорс	·	4A, and	•	, (,
Saturati			Salt Crust				ı		atterns (B10)	
Water N	, ,		Aquatic In		s (B13)				Water Table (C2)
I .	ent Deposits (B2)		Hydrogen	**					Visible on Aeria	
Drift De						Living Roo			c Position (D2)	- 7, 7
	at or Crust (B4)		Presence		_	-			uitard (D3)	
Iron De			Recent Iro						al Test (D5)	2
	Soil Cracks (B6)		Stunted or					Raised Ant	Mounds (D6) (LRR A)
Inundat	ion Visible on Aeria	al Imagery (B7)	Other (Exp					Frost-Heav	e Hummocks (I	D7)
Sparsel	ly Vegetated Conca	ave Surface (B8)								
Field Obser										
Surface Wa	ter Present?	Yes No		ches):						
Water Table	Present?		Depth (in			1				
Saturation F			Depth (in			- 1	land Hydrolo	gy Present	t? Yes	_ No <u>×</u> _
(includes ca	pillary fringe)		•							
Describe Re	ecorded Data (strea	am gauge, monito	oring well, aerial	photos, pr	evious ins	spections),	, it available:			
								<u>LLAILIUS III IVAN PARANTAN III II I</u>		
Remarks:	1 0.11	1	Wal-	1 1	1	1				
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K-F

oject/Site: PSE Kirkland N	Coul (01/11/92 City/County: CI	Sampling Date: 4/1 1/70/
oplicant/Owner:		State: VA Sampling Point: 58 5
vestigator(s): TIM MITABILE	Linda Howard Section, Township, 1	Range
ndform (hillslope, terrace, etc.): <u>[2011] (*</u>	್ನ ಬಿತ್ರಗಳು Local relief (concav	re, convex, none):
		Long:/ Datum:
il Map Unit Name:		NWI classification 1 Pan - Manag
e climatic / hydrologic conditions on the site ty	pical for this time of year? Yes 💢 No	ン (If no, explain in Remarks.) 🎺 デュリー 🖊
Vegetation, Soil, or Hydrolog	gysignificantly disturbed? Ar	re "Normal Circumstances" present? Yes _X No
Vegetation, Soil, or Hydrolog	gynaturally problematic? (if	needed, explain any answers in Remarks.)
JMMARY OF FINDINGS - Attach	site map showing sampling poin	t locations, transects, important features, etc
lydrophytic Vegetation Present? Yes lydric Soil Present? Yes Vetland Hydrology Present? Yes temarks:	No is the Sample within a Wet	AND TOTAL TO THE STATE OF THE S
\ GETATION – Use ≲clentific name:	The control of the co	
	Absolute Dominant Indicato	
ree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
- W		
		Total Number of Dominant Species Across All Strata: (B)
	= Total Cover	Percent of Dominant Species
apling/Shrub Stratum (Plot size:	1	That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet:
Sally Glowasis	SO Y FACE	Total % Cover of: Multiply by:
	And the second s	OBL species x1 =
an man an an an aire an	The second secon	FACW species x2=
	And the second of the second o	FAC species x3 =
	= Total Cover	FACU species x 4 =
erb Stratum (Plot size:)	IM IN FACE	(B) UPL species x5 = Column Totals: (A) (B)
		Prevalence Index = B/A =
		1 - Rapid Test for Hydrophylic Vegetation
		2 - Dominance Test is >50%
		3 - Prevalence Index is ≤3.0 ¹
		 4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)
		5 - Wetland Non-Vascular Plants¹
0		Problematic Hydrophytic Vegetation ¹ (Explain)
		Indicators of hydric soil and wetland hydrology must
	= Total Cover	be present, unless disturbed or problematic.
Vander VIna Cleation (DI-1-1		
Noody Vine Stratum (Plot size:	a kan kan kan kan kan kan kan kan kan ka	- Hydrophytic Vegetation
* 	= Total Cover	

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rofile Desc	cription: (Describe to	o the dept	h needed to	documen	t the In	ndicator	or confirm	the absence	of Indicators.)
Depth	<u>Matrix</u>			Redox Fe			· · · · · · · · · · · · · · · · · · ·		
nches)	Color (molst)	%	Color (mois	z()	<u>%</u>	Type'	_Loc ^z _	Texture	Remarks
	= 20-41	 .		يند سيب	 ,			<u> </u>	Organic Mull
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		•.	17,5VR		30	C	M		1 0 1
		- K	664425	1106	10010	15	M		WZ
	ROCKS IM	1900		RTHA			MAU	λ N	
		CLLY.	F-77 1			<u> </u>	10111	<u>V I V :</u>	**************************************
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Type: C≈C	oncentration, D≖Deple	tion, RM=	Reduced Matr	ix, CS=C	overed	or Coate	d Sand Gr	ains. ² Lo	cation: PL=Pore Lining, M=Matrix.
	Indicators: (Applica								ors for Problematic Hydric Soils ³
Histosol			Sandy Re	dox (S5)	- 4			2 a	n Muck (A10)
	pipedon (A2)		Stripped I	Matrix (S6)		7.00	Rec	i Parent Material (TF2)
	istic (A3)					-, -	MLRA 1)		y Shallow Dark Surface (TF12)
	en Suffide (A4)	/B 4 25	Loamy Gl			l		Oth	er (Explain in Remarks)
	d Below Dark Surface ark Surface (A12)	(A11)	✓ Depleted Redox Da				*	3,	
	Aucky Mineral (S1)	•	Redux Da			71	\$5.55		ors of hydrophytic vegetation and ind hydrology must be present,
	Sleyed Matrix (S4)	•	Redox De		region to the				ss disturbed or problematic.
	Layer (If present):			P1000 01 0	· · · · /			T	S SISSESSION INCOMPRESSION
Type:									
Depth (inc	ches):							Hydric Soll	Present? Yes No
emarks:			· · · · · · · · · · · · · · · · · · ·		-	 -		1 7	A transport
			A	efle fi	ws.	dri	ALSO	PALS	lepheled matrix pHt.
/DROLO			Ø	exte h	ws.	dry	ALSO	pfless	pH.
etland Hyd	GY drology Indicators:				w s	du	Also	pfliss	Mt
Vetland Hyd	GY				w s	<i>au</i>	Also		ndary Indicators (2 or more require
Vetland Hydrimary Indic	GY drology Indicators: cators (minimum of on Water (A1)		: check all tha					Seco	
/etland Hyd rimary Indic Surface High Wa	GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2)		: check all tha	t apply)	Leave	s (B9) (e		Seco	ndary indicators (2 or more require
fetland Hydrimary Indic Surface High Wa	GY drology Indicators: cators (minimum of on Water (A1) ater Table (A2) on (A3)		: check all tha Wate Salt (t apply) er-Stained ILRA 1, 2, Crust (B1	Leave , 4A, ar	s (B9) (e		Seco	ndary Indicators (2 or more require Vater-Stained Leaves (B9) (MLRA
rimary Indic Surface High Wa Saturatio Water M	GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1)		: check all tha Wate M Salt (t apply) or-Stained ILRA 1, 2, Crust (B1'	Leave , 4A, ar 1)	s (B9) (e nd 4B) s (B13)		Secondary V	ndary Indicators (2 or more require Vater-Stained Leaves (B9) (MLRA 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2)
rimary Indic Surface High Wa Saturatic Water M Sedimer	GY drology Indicators: cators (minimum of on- Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)		: check all tha Wate M Salt (Aqua Hydri	t apply) er-Stained ILRA 1, 2, Crust (B1' itic Inverte ogen Suff	Leave , 4A, ar 1) ebrates ide Ode	s (B9) (a nd 4B) s (B13) or (C1)	xcept	Seco	ndary Indicators (2 or more require Vater-Stained Leaves (B9) (MLRA 4A, and 4B) Oralnage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery
fetland Hydrimary Indic Surface High Wa Saturatio Water M Sedimen Drift Dep	GY drology Indicators: eators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)		: check all tha Wate M Salt o Aqua Hydro	t apply) er-Stained iLRA 1, 2, Crust (B1 itic Inverte ogen Sulfi ized Rhizo	Leave , 4A, ar 1) ebrates ide Odo osphere	s (B9) (end 4B) s (B13) or (C1) es along	xcept		ndary Indicators (2 or more require Vater-Stained Leaves (B9) (MLRA 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2)
Vetland Hydrimary Indice Surface High Water M Saturation Water M Sediment Drift Dep	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)		: check all tha Wate M Salt (Aqua Hydri Oxidi Prese	t apply) or-Stained ILRA 1, 2, Crust (B1 titic Inverte ogen Sulfi ized Rhizo	Leave, 4A, and 1) ebrates de Ode Osphere aducad	s (B9) (e nd 4B) (e (B13) or (C1) es along (1 fron (C4)	xcept Living Root	Secon X C C S C C S C C S C C S C C S C C S C C S C C S C C S C C C S C	ndary Indicators (2 or more require Vater-Stained Leaves (B9) (MLRA 4A, and 4B) Oralnage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery Seomorphic Position (D2)
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Vetland Hydrimary Indicate Surface High Water M Sediment Drift Dep Algal Ma Iron Dep Surface Inundatic Sparsely	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B6) Soil Cracks (B6) on Visible on Aerial Im y Vegetated Concave (B1)	e required	: check all that Wate M Salt (Aqua Hydra Oxidi Press Rece Stund Othe	t apply) or-Stained iLRA 1, 2, Crust (B1' ttic Inverte ogen Sulfi ized Rhizo ence of Re ont Iron Re ted or Stre	Leave , 4A, ar 1) ebrates ide Ode osphere educad educad essed F	is (B9) (e nd 4B) is (B13) or (C1) es along d fron (C4n in Tiller	xcept Living Rooi	Second Y C C C C C C C C C C C C C C C C C C	ndary Indicators (2 or more require Vater-Stained Leaves (B9) (MLRA- 4A, and 4B) Oralnage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery Seomorphic Position (D2) Shallow Aquitard (D3) AC-Neutral Test (D5) Laised Ant Mounds (D8) (LRR A)
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Vetland Hydrimary Indic Surface High Water M Sediment Drift Dep Algal Ma Iron Dep Surface Inundatic Spansely Ield Observater Table	drology Indicators: eators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial Im y Vegetated Concave systions: er Present? Yes	e required hagery (B7 Surface (B	: check all that	t apply) or-Stained iLRA 1, 2, Crust (B1' titic Inverte ogen Sulf ized Rhizo ence of Ri ent Iron Re ted or Stre r (Explain th (inches	Leave 4A, and 1) subrates deducation easted Filin Ren s):	is (B9) (e nd 4B) is (B13) or (C1) es along d fron (C4n in Tiller	Living Root Living Root Solis (C8) LIVING ROOT LIVING ROOT LIVING ROOT LIVING ROOT LIVING ROOT LIVING ROOT LIVING ROOT	Second Y V	ndary Indicators (2 or more require Vater-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Seomorphic Position (D2) Shallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D8) (LRR A) rost-Heave Hummocks (D7)
Vetland Hydrimary Indic Surface High Wa Saturatio Water M Sediment Drift Dep Algal Ma Iron Dep Surface Inundatio Spansely Ield Observice Vater Table Saturation Princludes cap	drology indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B6) on Visible on Aerial Im y Vegetated Concave s yations: er Present? Present? Yes resent? Yes politary fringe)	e required sagery (B7 Surface (B	: check all that Wate M Salt (Aqua Hydra Oxidi Press Rece Stund Othe B) Dep	t apply) or-Stained LRA 1, 2, Crust (B1' dogen Sulfi ized Rhizo ence of Re ent Iron Re ted or Stre r (Explain th (inches th (inches th (inches	Leave 4A, ar 1) ebrates ide Odd osphere educad eductio essed F in Ren s):	is (B9) (e and 4B) is (B13) or (C1) es along di Iron (C4 an in Tiller (Dinarks)	Living Root i) d Soils (C6) 1) (LRR A)	Secon Y V Las (C3) Y C3 Las (C3) Y C4 Las (C3) Y C5 Las (C3) Y	ndary Indicators (2 or more require Vater-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Seomorphic Position (D2) Shallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D8) (LRR A) rost-Heave Hummocks (D7)
Surface High Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundatic Spansely Field Obsen Surface Water Table Saturation Princludes cap Describe Rec	drology Indicators: caters (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) int Deposits (B2) cosits (B3) at or Crust (B4) cosits (B6) on Visible on Aerial Im y Vegetated Concave : vations: er Present? Yes resent? Yes resent? Yes corded Data (stream g	e required hagery (B7 Surface (B	: check all that Wate Manual Salt (Aqual Hydric Press Rece Stund Othe (8) Dep to Dep nitoring well, a	t apply) or-Stained iLRA 1, 2, Crust (B1' titc Inverte ogen Sulfi ized Rhizo ence of Ri ent Iron Re ted or Stre r (Explain th (inches th (inches erial photo	Leave , 4A, and 1) abrates ide Odo osphero educado essed Filin Ren (s):	is (B9) (e nid 4B) is (B13) or (C1) e or (C1) e or (C4) e in in Titlee Plants (D narks)	Living Root i) d Solis (C8) 1) (LRR A) Wetta pections), i	Secondary V Land Figure 1 Land Fig	ndary Indicators (2 or more require Vater-Stained Leaves (B9) (MLRA 4A, and 4B) Prainage Patterns (B10) Pry-Season Water Table (C2) Saturation Visible on Aerial Imagery Seomorphic Position (D2) Shallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D8) (LRR A) rost-Heave Hummocks (D7)
Vetland Hydrimary Indic Surface High Wa Saturatio Water M Sediment Drift Dep Algal Ma Iron Dep Surface Inundatio Spansely Ield Observice Vater Table Saturation Princludes cap	drology Indicators: caters (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) int Deposits (B2) cosits (B3) at or Crust (B4) cosits (B6) on Visible on Aerial Im y Vegetated Concave : vations: er Present? Yes resent? Yes resent? Yes corded Data (stream g	e required hagery (B7 Surface (B	: check all that Wate Manual Salt (Aqual Hydric Press Rece Stund Othe (8) Dep to Dep nitoring well, a	t apply) or-Stained iLRA 1, 2, Crust (B1' titc Inverte ogen Sulf ized Rhizo ence of Ri ent Iron Re ted or Stre r (Explain th (inches th (inches erial phot	Leave , 4A, and 1) abrates ide Odo osphero educado essed Filin Ren (s):	is (B9) (e nid 4B) is (B13) or (C1) e or (C1) e or (C4) e in in Titlee Plants (D narks)	Living Root i) d Solis (C8) 1) (LRR A) Wetta pections), i	Secondary V Land Figure 1 Land Fig	ndary Indicators (2 or more require Vater-Stained Leaves (B9) (MLRA 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Seomorphic Position (D2) Shallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D8) (LRR A) rost-Heave Hummocks (D7)

	والمناب وأعفه ويهودك بالمامي		Intains, Valleys, and Coast Region
Project/Site: Gammah - franta	City/C	County: Ev	M/KINL Sampling Date: U·27-20
Applicant/Owner: 456			State: WA Sampling Point: SP-KF
Investigator(s): 610	Section	on, Township, Ra	nge:
Landform (hillslope, terrace, etc.): FIAT WWW	1 arm Loca	l relief (concave,	convex, none): _ Nov Slope (%): _ O
Subregion (LRR):	Lat:		Long: Datum:
Soil Map Unit Name:			NWI classification:
Are climatic / hydrologic conditions on the site typical for th	is time of year? Y	es X No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	7.5		•
Are Vegetation, Soil, or Hydrology			· · · · · · · · · · · · · · · · · · ·
SUMMARY OF FINDINGS – Attach site map			
Hydrophytic Vegetation Present? Yes /	Vo		
	10 <u> </u>	Is the Sampled within a Wetlar	
Remarks: adjacent to gravel	arca.	40 las 1	Old between Wetlands
K-F and K-G K-H			
VEGETATION – Use scientific names of plar	nts.		randi kanantari (2). Baradi Saradi
2		ninant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	<u>% Cover Spe</u>	1/	Number of Dominant Species 3
1. Popular Da Santera		Y FAZ	That Are OBL, FACW, or FAC: (A)
			Total Number of Dominant Species Across All Strata: (B)
4.			
	(o = To	tal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	7	tun.	Prevalence Index worksheet:
1 Kulais Armenican	20 Y	TAU	Total % Cover of: Multiply by:
2. Kubus lacin intus	_ 20	1ACU	OBL species x 1 =
4. 146 vs. 146 (1994)	<u> </u>		FACW species x 2 =
5.	selentaria e sa	Carlos A Maria Carlos	FAC species x 3 =
	40 = To	tal Cover	FACU species x 4 =
Herb Stratum (Plot size:)		υ <u>.</u>	UPL species x 5 =
1 to au andr	- '	L FAG	Column Totals: (A) (B)
			Prevalence Index = B/A =
4	<u>. 4 mil 1846 (4 s</u>		Hydrophytic Vegetation Indicators:
		<u>Beridan end</u> a Parti de Maria de la como	1 - Rapid Test for Hydrophytic Vegetation
6		G ber vertige een een	2 - Dominance rest is >50 %
7.		nave or history in	3 - Prevalence Index is ≤3.0¹
8.			4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
9.	1 1	· · · · · · · · · · · · · · · · · · ·	5 - Wetland Non-Vascular Plants ¹
10.			Problematic Hydrophytic Vegetation ¹ (Explain)
:11			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Moody Vine Stratum (Blot size)	5 = Tota	Allegan and a second second	
1.			हैं के कुरियोगीय कार्या कर्या है। यह विश्वविद्या कार्योग विश्वविद्या के विद्यालय के क्षेत्र के विद्यालय के क्ष
2			Hydrophytic Vegetation
	/1 = Tota	al Cover	Present? Yes No
% Bare Ground in Herb Stratum 46	astu h	not "	
Weedy blackting area in	the a cou	yeu of	cottmund. Plots
1-cualded days to days	eles t	₹ <u>*.</u>	

Profile Description: (Describ	o to the depth h		Carlotte Programme Committee	m the absence o	of indicators.)	
Depth Matrix		Redox Feature Color (moist) %	18 T 1	T	.	
(inches) Color (moist)	<u> </u>	Color (moist) %	Type ¹ Loc ²	Texture ろん	Remarks	
10-12 10919/2	<u> </u>				50/. grave /	coppu
	es.	and the second second			and the second of the second o	
				₩()	189	
					The state of the s	
						
			· <u></u>	·		
					The state of the s	
			·			
1				2.		
¹ Type: C=Concentration, D=De Hydric Soil Indicators: (Appl					ation: PL=Pore Lining, M=Matr s for Problematic Hydric Soil	
Histosol (A1)		Sandy Redox (S5)	,		Muck (A10)	• •
Histic Epipedon (A2)	*******	Stripped Matrix (S6)		·	Parent Material (TF2)	
Black Histic (A3)		Loamy Mucky Mineral (F	1) (except MI RA 1		Shallow Dark Surface (TF12)	
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2		-	r (Explain in Remarks)	
Depleted Below Dark Surfa	ace (A11)	Depleted Matrix (F3)	-/			
Thick Dark Surface (A12)		Redox Dark Surface (F6)		³ Indicator	s of hydrophytic vegetation and	
Sandy Mucky Mineral (S1)		Depleted Dark Surface (I	- 7)		d hydrology must be present,	
Sandy Gleyed Matrix (S4)		Redox Depressions (F8)			disturbed or problematic.	
Restrictive Layer (if present):						-
Type:	3				grafijawa dijech hisk	#51. a.
Depth (inches):				Hydric Soil F	Present? Yes No	X

Disturnd Si	Is evil	un of fil	1. Dry	triance	ı	
	, (·	0'	· / /	•		
						4.34.4
HYDROLOGY Wetland Hydrology Indicator	s:					- 1
HYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of				Second	dary Indicators (2 or more requi	red)
Wetland Hydrology Indicator			es (B9) (except		dary Indicators (2 or more requi	
Wetland Hydrology Indicators Primary Indicators (minimum of		neck all that apply)		Wa		
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1)		neck all that apply) Water-Stained Leav		Wa	ater-Stained Leaves (B9) (MLR	
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2)		neck all that apply) Water-Stained Leav MLRA 1, 2, 4A,	and 4B)	Wa	ater-Stained Leaves (B9) (MLR 4A, and 4B)	
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		meck all that apply) Water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate	and 4B) es (B13)	Wa Dra Dny	ater-Stained Leaves (B9) (MLR 4A, and 4B) ainage Patterns (B10)	A 1, 2,
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)		meck all that apply) Water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11)	and 4B) es (B13) dor (C1)	Wa Dra Dn Sa	ater-Stained Leaves (B9) (MLR 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2)	A 1, 2,
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe	and 4B) es (B13) dor (C1) eres along Living Ro	Wa Dra Dny Sa ots (C3) Ge	ater-Stained Leaves (B9) (MLR 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Image	A 1, 2,
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe	and 4B) es (B13) dor (C1) eres along Living Ro ed Iron (C4)	Wa Dra Dra Sa ots (C3) Ge Sh	Ater-Stained Leaves (B9) (MLR 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Image comorphic Position (D2) allow Aquitard (D3)	A 1, 2,
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		MLRA 1, 2, 4A, MLRA 1, 2, 4A, MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct	and 4B) es (B13) dor (C1) eres along Living Ro ed Iron (C4) on in Tilled Soils (C	Wa Dra Dny Sa ots (C3) Ge Sh 6) FA	Ater-Stained Leaves (B9) (MLR 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Image comorphic Position (D2) allow Aquitard (D3) (C-Neutral Test (D5)	A 1, 2, ery (C9)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	f one required; ch	Meck all that apply) Water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Stunted or Stressed	es (B13) dor (C1) eres along Living Ro ed Iron (C4) ion in Tilled Soils (C Plants (D1) (LRR A	Wa Dra Dra Sa ots (C3) Ge Sh 6) FA A) Ra	Atter-Stained Leaves (B9) (MLR 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Image comorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR A)	A 1, 2, ery (C9)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria	f one required; ch	MLRA 1, 2, 4A, MLRA 1, 2, 4A, MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct	es (B13) dor (C1) eres along Living Ro ed Iron (C4) ion in Tilled Soils (C Plants (D1) (LRR A	Wa Dra Dra Sa ots (C3) Ge Sh 6) FA A) Ra	Ater-Stained Leaves (B9) (MLR 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Image comorphic Position (D2) allow Aquitard (D3) (C-Neutral Test (D5)	A 1, 2, ery (C9)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Concar	f one required; ch	Meck all that apply) Water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Stunted or Stressed	es (B13) dor (C1) eres along Living Ro ed Iron (C4) ion in Tilled Soils (C Plants (D1) (LRR A	Wa Dra Dra Sa ots (C3) Ge Sh 6) FA A) Ra	Atter-Stained Leaves (B9) (MLR 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Image comorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR A)	A 1, 2, ery (C9)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca	f one required; ch	water-Stained Leav MLRA 1, 2, 4A, 3 MIRA 1, 2, 4A, 3 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Stunted or Stressed Other (Explain in Re	es (B13) dor (C1) eres along Living Ro ed Iron (C4) ion in Tilled Soils (C Plants (D1) (LRR A	Wa Dra Dra Sa ots (C3) Ge Sh 6) FA A) Ra	Atter-Stained Leaves (B9) (MLR 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Image comorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR A)	A 1, 2, ery (C9)
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Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strea	Il Imagery (B7) Ive Surface (B8) Yes No _ Yes No _ Yes No _	Mater-Stained Leaver MLRA 1, 2, 4A, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Of Oxidized Rhizospher Presence of Reduct Recent Iron Reduction Stunted or Stressed Other (Explain in Research Iron Reduction Stunted Stunted Other (Explain in Research Iron Reduction Iron Research Iron Iron Iron Iron Iron Iron Iron Iron	es (B13) dor (C1) eres along Living Ro ed Iron (C4) ion in Tilled Soils (C Plants (D1) (LRR A emarks) Wet	Wa Dra Dra Sa ots (C3) Ge Sh 6) FA \(\) Fro Fro land Hydrology	ater-Stained Leaves (B9) (MLR 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Image comorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)	A 1, 2, ery (C9)
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Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strea	Il Imagery (B7) Ive Surface (B8) Yes No _ Yes No _ Yes No _ Im gauge, monito	Mater-Stained Leaver MLRA 1, 2, 4A, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Of Oxidized Rhizospher Presence of Reduct Recent Iron Reduct Stunted or Stressed Other (Explain in Research Iron Reduct Depth (inches): Depth (inches): Depth (inches):	es (B13) dor (C1) eres along Living Ro ed Iron (C4) ion in Tilled Soils (C Plants (D1) (LRR A emarks) Wet	Wa Dra Dra Sa ots (C3) Sh 6) FA A) Fro land Hydrology if available:	ater-Stained Leaves (B9) (MLR 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Image comorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)	A 1, 2, ery (C9)

Project/Site: Sammamish-Juanita Transmission Li	ne Project	Cit	y/County:	Kirkland	Sampling Date: 6/4/2019
Applicant/Owner: Puget Sound Energy	•				te: WA Sampling Point: SP-KF1
Investigator(s): JDB, GM		Se	ction, Towr		e:
	h				vex, none): Slope (%): 0
					Datum:
Soil Map Unit Name:					NWI Classification: upland
Are climatic / hydrologic conditions on the site typic	cal for this time	of vear?	O Yes	s © N	<u> </u>
Are Vegetation □ , Soil □ , or Hydrology □		-			Normal Circumstances" present? Yes No
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐	• •				'
•	, ,				eded, explain any answers in Remarks.) tions, transects, important features, etc.
Hydrophytic Vegetation Present?	• No				, , , ,
Hydric Soil Present? O Yes	No			Sampled A	O
Wetland Hydrology Present? O Yes	No		withi	n a Wetland	d? ○ Yes ● No
Verification of sampling point taken on 10/22/201 VEGETATION – Use scientific names of		as chang	ged slightly.		
	Absolute	Dom.	Relative	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft) 1.	% Cover		% Cover	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2.					Total Number of Dominant
3					Species Across All Strata: 2 (B)
4.		= Total (Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
Sapling/Shrub Stratum (Plot size:					Prevalence Index worksheet:
1. 2.					Total % Cover of: Multiply by:
3.					OBL species 0 x 1 = 0
4.					FACW species 0 x 2 = 0
5.					FAC species 20 x 3 = 60
		= Total (FACU species 20 x 4 = 80
Herb Stratum (Plot size:)					UPL species 0 x 5 = 0
1					Column Totals:40 (A)140 (B)
2.				FACW	Prevalence Index = B/A = 3.500
3					Hydrophytic Vegetation Indicators:
5.					1 - Rapid Test for Hydrophytic Vegetation
6.					2 - Dominance Test is >50%
7.					3 - Prevalence Index is ≤3.0¹
8.					4 - Morphological Adaptations¹ (Provide supporting
9					data in Remarks or on a separate sheet)
10					5 - Wetland Non-Vascular Plants ¹
11					☐ Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 15ft x 15ft	:	= Total (Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Rubus armeniacus		<u>Y</u>	50.0	FAC	
2. Rubus laciniatus	20	Y Total (50.0	FACU	Hydrophytic Vegetation
% Bare Ground in Herb Stratum 60	40 :	= Total (over		Present? O Yes No
Remarks:					
					1215

SOIL Sampling Point: SP-KF1

Depth	N.	1atrix		Pad	ox Featur	.00		n the abse				
(inches)	Color (mo		%	Color (moist)	%	Type ¹	Loc ²	Text	ure		Remarks	
0-12	10YR	4/2	50	<u> </u>				Gravelly I	_oam	50% grave	el, rock fragm	ents
>12											sample below	
712										Oriable to	Sample Belov	, 12
¹Type: C=Cc	ncentration F)_Denleti	on RM-Re	duced Matrix, CS=	Covered	or Coate	d Sand Gr	rains	21.00	ation: PI =F	Pore Lining, M	-Matrix
				Rs, unless otherw			d Garia Gr	uo.			lematic Hydri	
☐ Histosol (-] Sandy Redox (S5		•			□ 2 cm N	Muck (A10)	•	
☐ Histic Epi				Stripped Matrix (rent Materi	al (TF2)	
☐ Black Hist				Loamy Mucky Mir		(except l	MLRA 1)		☐ Very S	hallow Dark	Surface (TF1	2)
☐ Hydrogen				Loamy Gleyed Ma	atrix (F2)				☐ Other	(Explain in l	Remarks)	
	Below Dark Su			Depleted Matrix (
	k Surface (A12			Redox Dark Surfa	, ,						hytic vegetation	
	ucky Mineral (S	-		Depleted Dark Su Redox Depression		')					ust be presen	t,
	eyed Matrix (S			Redox Depression	IS (FØ)				uniess dis	sturbed or p	problematic.	
Restrictive	Layer (if pres	ent):										
Type:											O Yes	♠ No
Depth (in	iches):							Hydr	ic Soil Pre	esent?	O res	No
HYDROLO)GY											
Wetland Hy	drology Indic	ators:										
_	drology Indic		e required:	check all that apply	<i>(</i>)				Secondary	v Indicators	s (2 or more re	eauired)
-	cators (minimu		e required; (check all that apply		s (B9) (exc	cept		_		s (2 or more re	
Primary Indi	cators (minimu Vater (A1)		e required; (☐ Water-Staine			cept		☐ Water-			
Primary India Surface W High Wate	cators (minimu Vater (A1) er Table (A2) n (A3)		e required; (☐ Water-Staine MLRA 1, ☐ Salt Crust (B	ed Leaves 2, 4A, ar 11)	nd 4B)	cept		☐ Water- 4A ☐ Draina	Stained Lea ., and 4B) ge Patterns	aves (B9) (MLI (B10)	
Primary India Surface W High Wate Saturation Water Ma	cators (minimu Vater (A1) er Table (A2) n (A3) rks (B1)		e required; (☐ Water-Staine MLRA 1, ☐ Salt Crust (B ☐ Aquatic Inve	ed Leaves 2, 4A, ar 11) rtebrates	(B13)	cept		☐ Water- 4A ☐ Draina ☐ Dry-Se	Stained Lea , and 4B) ge Patterns ason Water	aves (B9) (MLI (B10) Table (C2)	RA 1, 2,
Primary India Surface W High Wate Saturation Water Ma Sediment	cators (minimu Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2)		e required; (☐ Water-Staine MLRA 1, ☐ Salt Crust (B ☐ Aquatic Inve ☐ Hydrogen Su	ed Leaves 2, 4A, ar 11) rtebrates ulfide Odd	(B13) or (C1)	•		Water- 4A □ Draina □ Dry-Se □ Saturat	Stained Lea , and 4B) ge Patterns ason Water tion Visible	aves (B9) (MLI (B10) Table (C2) on Aerial Imag	RA 1, 2,
Primary India Surface W High Wate Saturation Water Ma Sediment Drift Depo	cators (minimu Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) posits (B3)		e required; (ed Leaves 2, 4A, and 11) rtebrates offide Odd zospheres	nd 4B) (B13) or (C1) s along Liv	•	s (C3)	Water- 4A Drainag Dry-Se Saturat	Stained Lea , and 4B) ge Patterns ason Water tion Visible orphic Positi	(B10) (B10) Table (C2) on Aerial Imag on (D2)	RA 1, 2,
Primary India Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat	cators (minimulater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4)		e required; (Water-Staine MLRA 1, Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	ed Leaves 2, 4A, and 11) rtebrates alfide Odd zospheres Reduced	(B13) or (C1) s along Liv Iron (C4)	ving Roots	s (C3)	Water- 4A Drainag Dry-Se Saturat Geomo	Stained Lea , and 4B) ge Patterns ason Water tion Visible orphic Positi v Aquitard ((B10) Table (C2) on Aerial Imagon (D2) (D3)	RA 1, 2,
Primary India Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo	cators (minimulater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4)	<u>um of one</u>	e required; (ed Leaves 2, 4A, an 11) rtebrates ilfide Odo zosphere: Reduced Reduction	(B13) or (C1) s along Liv Iron (C4) n in Tilled	ving Roots Soils (C6)	s (C3)	Water- 4A Drainag Dry-Se Saturat Geomo Shallov FAC-Ne	Stained Lea ,, and 4B) ge Patterns ason Water tion Visible orphic Positi v Aquitard (eutral Test	(B10) Table (C2) on Aerial Imagon (D2) (D3)	RA 1, 2, gery (C9)
Primary India Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface Se Inundatio	cators (minimu /ater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) oil Cracks (B6) n Visible on A6	<u>um of one</u>	gery (B7)	Water-Staine MLRA 1, Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi. Presence of Recent Iron	ed Leaves 2, 4A, an 11) rtebrates ilfide Odo zospheres Reduced Reduction tressed P	(B13) or (C1) s along Lir Iron (C4) n in Tilled	ving Roots Soils (C6)	s (C3)	Water- 4A Drainag Dry-Se Saturat Geomo Shallov FAC-Ne Raised	Stained Lea , and 4B) ge Patterns ason Water tion Visible orphic Positi v Aquitard (eutral Test Ant Mound	(B10) Table (C2) on Aerial Imagon (D2) (D3) (D5)	RA 1, 2, gery (C9)
Primary India Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface Se Inundatio	cators (minimu Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) oil Cracks (B6)	<u>um of one</u>	gery (B7)	Water-Staine MLRA 1, Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Stunted or S	ed Leaves 2, 4A, an 11) rtebrates ilfide Odo zospheres Reduced Reduction tressed P	(B13) or (C1) s along Lir Iron (C4) n in Tilled	ving Roots Soils (C6)	s (C3)	Water- 4A Drainag Dry-Se Saturat Geomo Shallov FAC-Ne Raised	Stained Lea , and 4B) ge Patterns ason Water tion Visible orphic Positi v Aquitard (eutral Test Ant Mound	(B10) Table (C2) on Aerial Imagon (D2) (D3) (D5) Is (D6) (LRR A	RA 1, 2, gery (C9)
Primary India Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface Se Inundatio	cators (minimulater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) oil Cracks (B6) n Visible on Ac	<u>um of one</u>	gery (B7)	Water-Staine MLRA 1, Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Stunted or S	ed Leaves 2, 4A, an 11) rtebrates ilfide Odo zospheres Reduced Reduction tressed P	(B13) or (C1) s along Lir Iron (C4) n in Tilled	ving Roots Soils (C6)	s (C3)	Water- 4A Drainag Dry-Se Saturat Geomo Shallov FAC-Ne Raised	Stained Lea , and 4B) ge Patterns ason Water tion Visible orphic Positi v Aquitard (eutral Test Ant Mound	(B10) Table (C2) on Aerial Imagon (D2) (D3) (D5) Is (D6) (LRR A	RA 1, 2, gery (C9)
Primary India Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface So Inundatio Sparsely V	cators (minimulater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5) oil Cracks (B6) n Visible on Active (B4) vegetated Convertions:	<u>um of one</u>	gery (B7)	Water-Staine MLRA 1, Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi. Presence of Recent Iron Stunted or S Other (Expla	ed Leaves 2, 4A, ar 11) rtebrates ilfide Odo zosphere: Reduced Reduction tressed P in in Rem	(B13) or (C1) s along Liv Iron (C4) n in Tilled rlants (D1) narks)	ving Roots Soils (C6)	s (C3)	Water- 4A Drainag Dry-Se Saturat Geomo Shallov FAC-Ne Raised	Stained Lea , and 4B) ge Patterns ason Water tion Visible orphic Positi v Aquitard (eutral Test Ant Mound	(B10) Table (C2) on Aerial Imagon (D2) (D3) (D5) Is (D6) (LRR A	RA 1, 2, gery (C9)
Primary India Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface So Inundatio Sparsely V	cators (minimular (Mater (A1)) er Table (A2) n (A3) rks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) oil Cracks (B6) n Visible on Active (Material (B4)) regetated Constantial (Material (B4)) ter Present?	erial Imag	gery (B7) face (B8)	Water-Staine MLRA 1, Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Stunted or S	ed Leaves 2, 4A, and 11) rtebrates ulfide Odd zospheres Reduced Reduction tressed P in in Rem	(B13) or (C1) s along Liv Iron (C4) n in Tilled rlants (D1) narks)	ving Roots Soils (C6)	s (C3)	Water- 4A Drainag Dry-Se Saturat Geomo Shallov FAC-Ne Raised	Stained Lea , and 4B) ge Patterns ason Water tion Visible orphic Positi v Aquitard (eutral Test Ant Mound	(B10) Table (C2) on Aerial Imagon (D2) (D3) (D5) Is (D6) (LRR A	RA 1, 2, gery (C9)
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Primary India Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface So Inundatio Sparsely V Field Obser Surface Water Table Saturation P (includes car	cators (minimulater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) oil Cracks (B6) n Visible on Active (B6) rvations: ter Present? resent?	erial Imag cave Surf O Yes O Yes	gery (B7) Face (B8) • No • No	Water-Staine MLRA 1, Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi. Presence of Recent Iron Stunted or S Other (Expla	ed Leaves 2, 4A, ai 11) rtebrates ilfide Odd zosphere: Reduced Reduction tressed P in in Rem es): es):	nd 4B) (B13) or (C1) s along Liv Iron (C4) n in Tilled clants (D1) narks)	ving Roots Soils (C6) (LRR A)	s (C3)	Water- 4A □ Drainag □ Dry-Se □ Satural □ Geomo □ Shallov □ FAC-Ne □ Raised □ Frost-F	Stained Lea ,, and 4B) ge Patterns ason Water tion Visible orphic Positi v Aquitard (eutral Test Ant Mound deave Humr	(B10) Table (C2) on Aerial Imagon (D2) (D3) (D5) Is (D6) (LRR Amocks (D7)	gery (C9)
Primary India Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface So Inundatio Sparsely V Field Obser Surface Water Table Saturation P (includes car	cators (minimulater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) oil Cracks (B6) n Visible on Active (B6) rvations: ter Present? resent?	erial Imag cave Surf O Yes O Yes	gery (B7) Face (B8) • No • No	Water-Staine MLRA 1, Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi. Presence of Recent Iron Stunted or S Other (Expla	ed Leaves 2, 4A, ai 11) rtebrates ilfide Odd zosphere: Reduced Reduction tressed P in in Rem es): es):	nd 4B) (B13) or (C1) s along Liv Iron (C4) n in Tilled clants (D1) narks)	ving Roots Soils (C6) (LRR A)	s (C3)	Water- 4A □ Drainag □ Dry-Se □ Satural □ Geomo □ Shallov □ FAC-Ne □ Raised □ Frost-F	Stained Lea ,, and 4B) ge Patterns ason Water tion Visible orphic Positi v Aquitard (eutral Test Ant Mound deave Humr	(B10) Table (C2) on Aerial Imagon (D2) (D3) (D5) Is (D6) (LRR Amocks (D7)	gery (C9)
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Primary India Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface So Inundatio Sparsely V Field Obser Surface Water Table Saturation P (includes car	cators (minimulater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) oil Cracks (B6) n Visible on Active (B6) rvations: ter Present? resent?	erial Imag cave Surf O Yes O Yes	gery (B7) Face (B8) • No • No	Water-Staine MLRA 1, Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi. Presence of Recent Iron Stunted or S Other (Expla	ed Leaves 2, 4A, ai 11) rtebrates ilfide Odd zosphere: Reduced Reduction tressed P in in Rem es): es):	nd 4B) (B13) or (C1) s along Liv Iron (C4) n in Tilled clants (D1) narks)	ving Roots Soils (C6) (LRR A)	s (C3)	Water- 4A □ Drainag □ Dry-Se □ Satural □ Geomo □ Shallov □ FAC-Ne □ Raised □ Frost-F	Stained Lea ,, and 4B) ge Patterns ason Water tion Visible orphic Positi v Aquitard (eutral Test Ant Mound deave Humr	(B10) Table (C2) on Aerial Imagon (D2) (D3) (D5) Is (D6) (LRR Amocks (D7)	gery (C9)
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Primary India Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface So Inundatio Sparsely W Field Obser Surface Wat Water Table Saturation P (includes cal Describe Re	cators (minimulater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) oil Cracks (B6) n Visible on Active (B6) rvations: ter Present? resent?	erial Imag cave Surf O Yes O Yes	gery (B7) Face (B8) • No • No	Water-Staine MLRA 1, Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi. Presence of Recent Iron Stunted or S Other (Expla	ed Leaves 2, 4A, ai 11) rtebrates ilfide Odd zosphere: Reduced Reduction tressed P in in Rem es): es):	nd 4B) (B13) or (C1) s along Liv Iron (C4) n in Tilled clants (D1) narks)	ving Roots Soils (C6) (LRR A)	s (C3)	Water- 4A □ Drainag □ Dry-Se □ Satural □ Geomo □ Shallov □ FAC-Ne □ Raised □ Frost-F	Stained Lea ,, and 4B) ge Patterns ason Water tion Visible orphic Positi v Aquitard (eutral Test Ant Mound deave Humr	(B10) Table (C2) on Aerial Imagon (D2) (D3) (D5) Is (D6) (LRR Amocks (D7)	gery (C9)

Project/Site: Sammamish-Juanita Transmission Line	Project_	Ci	ity/County:	Kirkland_	Sampling Date: 6/4/2019
Applicant/Owner: Puget Sound Energy					te: WA Sampling Point: SP-KF2
Investigator(s): JDB, GM		Se	ection, Towr	nship, Range	e:
Landform (hillslope, terrace, etc.):					
					Datum:
Soil Map Unit Name:					NWI Classification: PEM
Are climatic / hydrologic conditions on the site typical	I for this time	e of year	? O Ye:		
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐	significant	-		Are "N	Normal Circumstances" present? Yes No
Are Vegetation □ , Soil □ , or Hydrology □	naturally p	•			eded, explain any answers in Remarks.)
	• •				tions, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	O No				
Hydric Soil Present? Yes	O No			Sampled A	
Wetland Hydrology Present? Yes	O No)	withi	n a Wetland	1? • Yes • No
Remarks:					
VEGETATION – Use scientific names of	plants.				
		Dom	Dolotivo	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft)	Absolute % Cover	Dom. Sp.?	Relative % Cover	Status	Number of Dominant Species
1. Populus balsamifera	30	Υ	100.0	FAC	That Are OBL, FACW, or FAC:5(A)
2					Total Number of Dominant
3					Species Across All Strata:6 (B)
4					Percent of Dominant Species
Cooling/Chruh Stratum /Diot aiza: 15ft v 15ft	30	= Total	Cover		That Are OBL, FACW, or FAC: 83.3% (A/B)
Sapling/Shrub Stratum (Plot size: 15ft x 15ft) 1. Populus balsamifera	5	Υ	50.0	FAC	Prevalence Index worksheet:
Salix lasiandra	5	<u> </u>	50.0	FACW	Total % Cover of: Multiply by:
3.					OBL species 0 x 1 = 0
4.					FACW species 10 x 2 = 20
5					FAC species95 x 3 =285
11 1 0 (((((((((((((((((10	= Total	Cover		FACU species 20 x 4 = 80
Herb Stratum (Plot size: 5ft x 5ft) 1. Juncus tenuis	40	Υ	88.9	FAC	UPL species 0 x 5 = 0 Column Totals: 125 (A) 385 (B)
Juncus tenus Juncus effusus	5	N	11.1	FACW	
3.	. 				Prevalence Index = B/A = 3.080
4.					Hydrophytic Vegetation Indicators:
5					1 - Rapid Test for Hydrophytic Vegetation
6					2 - Dominance Test is >50%
7					3 - Prevalence Index is ≤3.0¹
8 9.					4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
10.					5 - Wetland Non-Vascular Plants ¹
11.					Problematic Hydrophytic Vegetation¹ (Explain)
	45	= Total	Cover		Indicators of hydric soil and wetland hydrology must be
Woody Vine Stratum (Plot size: 15ft x 15ft)		_			present, unless disturbed or problematic.
1. Rubus armeniacus	20	<u>Y</u>	50.0	FAC	
2. Rubus laciniatus	20	<u>Y</u>	50.0	FACU	Hydrophytic
0/ Page Oracinal in Llank Circlina	40	= Total	Cover		Vegetation Present? • Yes • No
% Bare Ground in Herb Stratum40 Remarks:					
Remarks.					
					1217

SOIL Sampling Point: SP-KF2

Depth		atrix			ox Featu			the absence of inc			
(inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	1
0-12	10YR	4/2	90	10YR 4/6	5	С	М	Silty Clay Loam	5% grave	el, rock fragme	ents
>12									Unable to	sample belov	w 12"
					-						
											
				educed Matrix, CS= RRs, unless otherw			d Sand Gra			Pore Lining, M Diematic Hydr	
	-	ppiicabie		Sandy Redox (S5)		.u.,			Muck (A10)	•	
☐ Histosol (A1 ☐ Histic Epipe				☐ Sandy Redox (S5)					arent Mater		
☐ Black Histic				Loamy Mucky Mir) (except l	MLRA 1)			k Surface (TF	12)
 ☐ Hydrogen S				Loamy Gleyed Ma			,	-	(Explain in		,
Depleted Be		rface (A1		Depleted Matrix (` '	•	
Thick Dark	Surface (A12)	[☑ Redox Dark Surfa	ice (F6)			³ Indicato	rs of hydrop	ohytic vegetati	on and
Sandy Muck				Depleted Dark Su		7)				nust be preser	nt,
☐ Sandy Gleye			L	Redox Depression	ns (F8)			unless di	sturbed or	problematic.	
Restrictive La	yer (if prese	ent):									
Type:										Ø ∨aa	O No
Depth (inch	nes):							Hydric Soil Pr	esent?	Yes	O No
HYDROLOG											
Wetland Hydr			roguirod	abook all that apply	۸			Cocondo	a. Indicator	o (2 or more r	م میں نام مرا
Surface Wat		m or one	requirea;	check all that apply Water-Staine		s (B9) (exc	rent			<u>s (2 or more r</u> aves (B9) (ML	
High Water				MLRA 1,			орг		A, and 4B)	aves (D7) (ME	1011, 2,
Saturation (` ,			☐ Salt Crust (B		,			ige Patterns	s (B10)	
☐ Water Mark	s (B1)			☐ Aquatic Inve		s (B13)				r Table (C2)	
✓ Sediment D				☐ Hydrogen Su						on Aerial Ima	gery (C9)
Drift Deposi				Oxidized Rhiz		_	ing Roots		orphic Posit		
Algal Mat or				Presence of I			0 11 (0()		w Aquitard		
☐ Iron Deposi ☑ Surface Soil				☐ Recent Iron I☐ Stunted or St					eutral Test	(D5) ds (D6) (LRR /	1)
Inundation		rial Imag	erv (B7)	Other (Explain			(LKK A)			mocks (D7)	1)
		-	•	Other (Explain		iui koj			i iouvo i ium	mooks (B7)	
Field Observa	_										
Surface Water	Present?) Yes	No	Depth (inche	·e).						
Water Table P		O Yes	No								
Saturation Pre		O Yes	No				— w	etland Hydrology P	resent?	Yes	O No
(includes capil		•	•	Dopar (mone			— ···	onana riyarology i		•	U
		tream ga	uge, mon	itoring well, aerial pl	hotos, pr	evious ins	pections),	if available:			
Remarks:											
Evidence of po	onding early i	n growing	g season								
•	. ,	- `	-								
										121	0

K-G

	City	/County:	Sampling Date:
pplicant/Owner:	1 2 2 2 2		State: Sampling Point:
vestigator(s): TINA MILL BULL / 6	(<u>E//</u> /° ≤′) Sec	tion, Township, Ra	inge:
ndform (hillslope, terrace, etc.):	<u>- ₿₺-///</u> Loc	al relief (concave,	convex, none): dyen(av Slope (%):
bregion (LRR):	Lat:		_ Long:Datum:
			NWI classification: Pan drains -
e climatic / hydrologic conditions on the site typical	for this time of year?	Yes No_	(If no, explain in Remarks.) Well & L.*(
Vegetation, Soil, or Hydrology	significantly dist	urbed? Are	"Normal Circumstances" present? Yes No
Vegelation, Soil, or Hydrology	naturally probler	natic? (If ne	eded, explain any answers in Remarks.)
JMMARY OF FINDINGS - Attach site	man showing sa	mpling point l	ocations, transects, important features, e
lydrophytic Vegetation Present? Yes	.	Thurst Park	oudurid, denocolo, important leatures, e
lydric Soil Present? Yes Yes	No No	is the Sampled	I Area
Vetland Hydrology Present? Yes	No No	within a Wetlar	nd? Yes No
			
Simple located at GC. tailroad Ber	wellad Mag	along d	comos paradelles to long
Tallroad Bus	M MA TAREY	h Sidd of	tracks, Pained with Wellard YICT
GETATION – Use scientific names of	plants.		i almanorth edged di
		ominant Indicator	Dominance Test worksheet:
ee Stratum (Plot size:)	% Cover Sp	ecies? Status	Number of Dominant Species
	***************************************		That Are OBL, FACW, or FAC: (A
	and a segment of the second of	***************************************	Total Number of Dominant
			Species Across All Strata: (B)
	=1	otal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A)
apling/Shrub Stratum (Plot size:)		That Are OBL, FACW, or FAC: (A/
	المتناب والمنطقة والمنطقة والمنطقة		Total % Cover of: Multiply by:
	<u>.</u>		OBL species x1=
	Military Management (Maria	manufacture of the second	FACW species x2=
<u>. Tarangan kanggaran dan pertambahan dan pertambahan dan pertambahan dan pertambahan berapa </u>	***************************************		FAC species x 3 =
		otal Cover \	FACU species x4 =
erb Stratum (Plot size:)	~0/	otal cover	UPL species x 5 =
thatancountinacea		YACU	Column Totals: (A) (I
			Prevalence Index = B/A =
<u>and the first field that the state of the first the second transfer. The second transfer is the second transfer to the second transfer transfer to the second transfer t</u>			Hydrophytic Vegetation Indicators:
		المستثن تشتينا	1 - Rapid Test for Hydrophylic Vegetation
			2 - Dominance Test is >50%
	12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		3 - Prevalence Index is ≤3,0 ¹
			4 - Morphological Adaptations (Provide support data in Remarks or on a separate sheet)
	-		5 - Wetland Non-Vascular Plants ¹
			Problematic Hydrophytic Vegetation¹ (Explain)
	Andrewski (Allender Allender A		'Indicators of hydric soil and wetland hydrology must
	= T (otal Cover	be present, unless disturbed or problematic.
oody Vine Stratum (Plot size:)			
Pelaus of mernacus		v fv	Hydrophytic
	source of grown artificial areas of	anager department of a color	Vegetation
		[1886] - 11 전 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Openuality (ου/ο= το	otal Cover	Present? Yes No No

11146 1886

PSE Kirkland Ruil coundary

		3/6
OIL •		Sampling Point:
rofile Description: (Describe to the de	pth needed to document the indicator or confirm t	the absence of indicators.)
Depth Matrix	Redox Features	
inches) Color (moist) %	Color (moist) % Type¹ Loc²	Texture Remarks
5-811 20172	· ·	gravely lam -
POCKS IMPER	dad Further Execution	1 0
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10.00		Company and a second
 		
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		Andreas Committee Committe
Type: C≠Concentration D≠Denietion RN	/i≍Reduced Matrix, CS=Covered or Coated Sand Grai	ins: ² Location: PL=Pore Lining, M=Matrix.
ydric Soli Indicators: (Applicable to al		Indicators for Problematic Hydric Solis ³ :
_ Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Cother (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
_ Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
estrictive Layer (if present):		
Type: Rodo		en e
(71)		
	and the second s	Liveric Soil Drosent? Vee X No.
Depth (Inches): 8 Redox is assurance deposited further e	mored to present although sedments with offer 811 of s Havatin. Soils were saturated	not observed on talk potals. Roules upaded perhaps marking redox.
temarks: Redox is a scu deposited further e	unned to present although sedments with open 811 of s Execution. Soils were saturated	
lemarks: Redox is ascu deposited further e	mored to present although sedments with upon 811 of s ixenuation. Soils were sufuration	
temarks: Reclox is a sci deposited further e YDROLOGY Vetland Hydrology Indicators:		not observed on sail potale. Rolls upaded) perhaps marking redox.
remarks: Redox is a sca deposited further e PDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require	ed; check all that apply)	not observed on maded on potale. Rocks upaded) perhaps marking rectors. Secondary Indicators (2 or more required)
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emarks: Relicx is a scular further effective e	ed: check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Not oblined on maded on paties. Route upaded) perhaps marking redox. Secondary indicators (2 or more required) Water-Stained Leaves (89) (MLRA 1, 2
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VPROLOGY Vetland Hydrology Indicators: Immary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (ESparsely Vegetated Concave Surface Surface Water Present?	ed: check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Solls (C8) Stunted or Stressed Plants (D1) (LRR A) B7) Other (Explain in Remarks) (B8)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C8 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region Project Site: Applicant/Owner. City/County: Sampling Date: investigator(s): Sampling Point Landform (hillslope, terrace, etc.): Section, Township, Range: Local relief (concave, convex, none): Subregion (LRR): Slope (%): Soil Map Unit Name: Long: Datum: Are climatic / hydrologic conditions on the site typical for this time of year? NWI classification: Are Vegetation Yes Ο. No (If no, explain in Remarks.) or Hydrology , significantly disturbed? Are "Normal Circumstances" present? Are Vegetation Π, or Hydrology ☐. naturally problematic? (If needed, explain any answers in Remarks.) No SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydric Soil Present? is the Sampled Area No Wetland Hydrology Present? within a Wetland? Yes TO No 🗆 No Remarks. 700761 VEGETATION - Use scientific names of plants Tree Stratum (Plot size Absolute Dominant indicator % Cover 1. arme Species? Dominance Test Worksheet: Status Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: 20% = (B) = Total Cover Sapling/Shrub Stratum (Plot size: Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of. Multiply by: OBL species X1 = FACW species x2 = , 20% = FAC species = Total Cover x3 = Herb Stratum (Plot size: FACU species x4 = UPL species x5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 10. 5 - Wetland Non-Vascular Plants1 Problematic Hydrophytic Vegetation (Explain) 20% = Indicators of hydric soil and wetland hydrology must = Total Cover Woody Vine Stratum (Plot size be present, unless disturbed or problematic. Hydrophytic Vegetation = Total Cover % Bare Ground in Herb Stratum Present? Remarks:

	eeded to document the indicator or confir	m the absence of i	Sampling Point	
Depth Matrix	Redox Features	``		
(Inches) Color (moist), %	Color (moist) % Type	. Locan	Texture	Remarks
104(23)2 9(0)0 3	- DIRAL 510 -		SLow_	anda X
0 0	17 1 1 PALL -	AA-	- My my	- 100412-)
01 2N 25 4 2 DO 1	RATA 9/0 L	12	SIEPANY	
812-to	1-10511 De	neny		
**************************************	109100			***
		*		
Market and the second s				
Type: C= Concentration, D=Depletion, RM=Re	educed Matrix, CS=Govered or Coated Sand	Grains. ² Locat	ion: PL=Pore Lining, M=Matrb	
Hydric Soil Indicators: (Applicable to all LRF	Rs, unless otherwise noted.)		Indicators for Problemati	ic Hydric Solls³:
Histosol (A1)	Sandy Redox (S5)	**	2 cm Muck (A10)	
Histic Epipedon (A2)	Stripped Matrix (S6)	*	Red Parent Materia	il (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (ex	cept MLRA 1)	☐ Very Shallow Dark	Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Explain in R	emarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	es .		a distribution of the second o
☐ Thick Dark Surface (A12)	Redox Dark Surface (F6)	1		***
Sandy Mucky Mineral (S1)	Dapleted Dark Surface (F7)		³ Indicators of hydrophytic i wetland hydrology mus	vegetation and t be present.
☐ Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	,	unless disturbed or pro	
Remarks:				
Remarks:	·			
HYDROLOGY	check all that apply)		Secondary Indicators (2 or r	more required)
HYDROLOGY Wetland Hydrology Indicators:	check all that apply) Water-Stained Leaves (89)		Secondary Indicators (2 or n	erijangan mananan menerala
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; of Surface Water (A1) High Water Table (A2)		48)		s (B9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; of Surface Water (A1)	☐ Water-Stained Leaves (B9)	48)	☐ Water-Stained Leaves	s (89) 4B)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; of Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4	4 B)	☐ Water-Stained Leaves (MLRA 1, 2, 4A, and	s (B9) 4B) 10)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; of Surface Water (A1) High Water Table (A2) Saturation (A3)	☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4 ☐ Salt Crust (B11)	4 B)	Water-Stained Leaves (MLRA 1, 2, 4A, and Drainage Patterns (B1 Dry-Season Water Ta Saturation Visible on A	s (B9) 4B) 10) ble (C2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4 ☐ Salt Crust (B11) ☐ Aquatic Invertebrates (B13)		Water-Stained Leaves (MLRA 1, 2, 4A, and Drainage Patterns (B1 Dry-Season Water Ta	s (B9) 4B) 10) ible (C2) Aerial Imagery (C9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4 ☐ Salt Crust (B11) ☐ Aquatic Invertebrates (B13) ☐ Hydrogen Sulfide Odor (C1)	Living Roots (C3)	Water-Stained Leaves (MLRA 1, 2, 4A, and Drainage Patterns (B1 Dry-Season Water Ta Saturation Visible on A	s (B9) 4B) 10) Ible (C2) Aerial Imagery (C9) (D2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4 ☐ Salt Crust (B11) ☐ Aquatic Invertebrates (B13) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres along	Living Roots (C3)	Water-Stained Leaves (MLRA 1, 2, 4A, and Drainage Patterns (B1 Dry-Season Water Ta Saturation Visible on A Geomorphic Position	s (B9) 4B) 10) ble (C2) Aerial Imagery (C9) (D2)
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US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Version 2.0

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Lat:	ryear? Yes ntly disturbed? problematic? ng samplir uite Dominan er Species?	No No Are of Mare of M	
Map Unit Name: climatic / hydrologic conditions on the site typical for this time of Vegetation, Soil, or Hydrology significan Vegetation, Soil, or Hydrology naturally MMARY OF FINDINGS — Attach site map showing drophytic Vegetation Present? Yes No, No, No, Yes No, No, Yes, No, No, Yes, No, Yes, No, Yes, No, Yes, No	ryear? Yesntly disturbed? problematic? ng samplir ls ti with Conservation ute Dominan Species?	N Are of the Sampled hin a Wetlan Wetlan Status	NWI classification: (If no, explain in Remarks.) "Normal Circumstances" present? Yes NoXeeded, explain any answers in Remarks.) locations, transects, important features, etc. d Area
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etland Hydrology Present? etland Hydrology Present? etland Hydrology Present? Yes No X Pemarks: Plot located of slope of trail Provided a sure to campulate of the sure o	Is the with with with with the pro-fine species?	Hin a Wetland And Property of the SP-E to Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: Multiply by:
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emarks: Plot located of 3 lope of train A only place a sure to sample. PC with exposed combackment of GETATION - Use scientific names of plants. Absolute ee Stratum (Plot size: 40 % Cov	te Dominan Species?	L WAS NP SP- t Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
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Absolu % Cov apling/Shrub Stratum (Plot size: 30 Lubus armanans (= bifrons) 5	ver Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
ee Stratum (Plot size:	ver Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
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Pubus armeneus (= bifrons) 5	= Total C	over	Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Cubus armenieus (= bifrons) 5	= Total C	over	Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
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Cubus armenieus (= bifrons) 5	N	t/x	Total % Cover of: Multiply by:
		- 17 V	PARTY CONTROL OF THE PARTY CON
rb Stratum (Plot size: 6)			OBI energies v1-
rb Stratum (Plot size: 5			
rb Stratum (Plot size: 6			FACW species x 2 =
rb Stratum (Plot size: 5)	algari agas salama gay		FAC species x 3 =
rb Stratum (Plot size: 9)	= Total Co	over	FACU species x 4 =
O. I I I I I I I I I I I I I I I I I I I	V	a ul	UPL species
halms grundenn 70		17/200	Column Totals: (A) (B)
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
Section Sections of the Section Sectio	Total Paper area	THE RESERVE	1 - Rapid Test for Hydrophytic Vegetation
	ente entre en	s days armysysse di Lys days arms arm	3 - Prevalence Index is ≤3.0¹
A CONTRACTOR OF THE CONTRACTOR		<u> </u>	4 - Morphological Adaptations¹ (Provide supportin
			data in Remarks or on a separate sheet)
		· · · · · · · · · · · · · · · · · · ·	5 - Wetland Non-Vascular Plants¹
		A lle Cario de	Problematic Hydrophytic Vegetation¹ (Explain)
ØA		<u>Bernelon on Tyle</u>	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
oody Vine Stratum (Plot size:)	= Total Co	over need need	
akinfi, nii maanane	ha Hillian	yohn Kab	Hydrophytic
			Venetation
6 //11	= Total Co	ver	Present? Yes X No
Bare Ground in Herb Stratum	4471	7 17 7	

Profile Description: (Describ Depth <u>Matrix</u>	<u> </u>	Redox Features	
(inches) Color (moist)		or (moist) % Type ¹ Loc ²	Texture Remarks
0-14 104R3/2	90		Loan 207 grant
4-20 101R4/2			grady 51 / Loan
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<u> </u>			TAX TAX
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4.1			
			
1- 00			2
Type: C=Concentration, D=De Hydric Soil Indicators: (Appl		ed Matrix, CS=Covered or Coated Sand (Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
		·	
Histosol (A1) Histic Epipedon (A2)	******	ndy Redox (S5) ripped Matrix (S6)	2 cm Muck (A10) Red Parent Material (TF2)
Black Histic (A3)	——————————————————————————————————————	amy Mucky Mineral (F1) (except MLRA 1	
Hydrogen Sulfide (A4)		amy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surfa		epleted Matrix (F3)	
Thick Dark Surface (A12)		edox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)		pleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Re	dox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):			
Туре:			
Depth (inches):			Hydric Soil Present? Yes No 🔀
typoses !	soils on	cut ball from	Stormatu outfall
YDROLOGY		auf. Ball from	Stormatu outfall
YDROLOGY Wetland Hydrology Indicator	3:		
YDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of	3:		Secondary Indicators (2 or more required)
IYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1)	3:	c all that apply) Water-Stained Leaves (B9) (except	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
IYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2)	3:	(all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
IYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)	3:	c all that apply) _ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) _ Salt Crust (B11)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	3:	<pre>c all that apply) _ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) _ Salt Crust (B11) _ Aquatic Invertebrates (B13)</pre>	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	3:	<pre>c all that apply) _ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) _ Salt Crust (B11) _ Aquatic Invertebrates (B13) _ Hydrogen Sulfide Odor (C1)</pre>	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
YDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	3:	 (all that apply) _ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) _ Salt Crust (B11) _ Aquatic Invertebrates (B13) _ Hydrogen Sulfide Odor (C1) _ Oxidized Rhizospheres along Living Research 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 oots (C3) Geomorphic Position (D2)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	3:	 <u>c all that apply</u>) _ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) _ Salt Crust (B11) _ Aquatic Invertebrates (B13) _ Hydrogen Sulfide Odor (C1) _ Oxidized Rhizospheres along Living Regeres _ Presence of Reduced Iron (C4) 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	s: one required; check 	 <u>call that apply</u>) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	s: one required; check	Call that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Called Stunted or Stressed Plants (D1) (LRR	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
IYDROLOGY Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria	s: one required; check	 <u>call that apply</u>) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Concar	s: one required; check	Call that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Called Stunted or Stressed Plants (D1) (LRR	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Concar	s: fone required; check	Mater-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Called Standard or Stressed Plants (D1) (LRR Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
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Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present?	is: I one required; check	Call that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Called Standard or Stressed Plants (D1) (LRR Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present?	s: one required; check I Imagery (B7) ve Surface (B8) Yes No Yes No	Call that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Called Standard or Stressed Plants (D1) (LRR Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	s: one required; check I Imagery (B7) ve Surface (B8) Yes No Yes No Yes No Yes No	Call that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Called Standard or Stressed Plants (D1) (LRR Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	s: one required; check I Imagery (B7) ve Surface (B8) Yes No Yes No Yes No Yes No	Call that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Called Standard of Stressed Plants (D1) (LRR Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (streat	I Imagery (B7) ve Surface (B8) Yes No Yes No Yes No The gauge, monitoring	Mater-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Castrate of Stanted or Stressed Plants (D1) (LRR other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches): We gwell, aerial photos, previous inspections	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (streat	I Imagery (B7) ve Surface (B8) Yes No Yes No Yes No The gauge, monitoring	Mater-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Castrate of Stanted or Stressed Plants (D1) (LRR other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches): We gwell, aerial photos, previous inspections	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	I Imagery (B7) ve Surface (B8) Yes No Yes No Yes No The gauge, monitoring	Mater-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Castrate of Stanted or Stressed Plants (D1) (LRR other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches): We gwell, aerial photos, previous inspections	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

estigator(s): Pan Hawidi, Gla			
ndform (hillslope, terrace, etc.): Swa 2 / 1 + 1	bittan	Local relief (concave,	convex, none): <u>Con CA w</u> Slope (%): <u>O</u>
bregion (LRR):		a a a a a a a a a a a a a a a a a a a	
il Map Unit Name:			NWI classification:
climatic / hydrologic conditions on the site typical fo	or this time of ye	ear? YesX_ No _	(If no, explain in Remarks.)
e Vegetation, Soil, or Hydrology	significantly	disturbed? Y Are "	'Normal Circumstances" present? Yes No
Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
er og flakstyrige er skriverer og er omfreter en en er om er er en en en er en en skrivetingen skriver	ar en de andere a comprese de		ocations, transects, important features, etc.
ydrophytic Vegetation Present? Yes X	No		
lydric Soil Present? Yes X	No		Area
Vetland Hydrology Present? Yes	_ No	within a Wetlar	nd? No No
	ated a	4itch (snal	le in torner natural
vettral wear paired with	n SP-Ki	91 on balland	residential
retiant K-G			
GETATION – Use scientific names of p			· A KAN A A A A A A A A A A A A A A A A A
ree Stratum (Plot size:)	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
CO Gardinii (1 101 0120.			Number of Dominant Species That Are OBL, FACW, or FAC: (A)
			Total Number of Dominant Species Across All Strata: (B)
	<u> </u>	<u> </u>	Percent of Dominant Species
2.	,	_ = Total Cover	That Are OBL, FACW, or FAC: (A/B)
apling/Shrub Stratum (Plot size: 36	2	11 42	Prevalence Index worksheet:
Kubus armenius (= bifors		<u> </u>	Total % Cover of: Multiply by:
			OBL species x 1 =
		***************************************	FACW species x 2 =
			FAC species x 3 =
	3	_ = Total Cover	FACU species x 4 =
erb Stratum (Plot size:)	40	V 201	UPL species
TYPIA LATES LEA	70	Y OBL	Lia Salander with All
sparganium sp		N FACW	Prevalence Index = B/A =
Solonyan du Camara		N FAC	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Schoenopleons acutus	10	N OBL	2 - Dominance Test is >50%
	The state of the s	et engligenskyn samt populas gravenski t Literatur	3 - Prevalence Index is ≤3.0¹
			4 - Morphological Adaptations ¹ (Provide supporting
			data in Remarks or on a separate sheet)
		•	5 - Wetland Non-Vascular Plants
0			Problematic Hydrophytic Vegetation ¹ (Explain)
1		. <u> </u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Voody Vine Stratum (Plot size:)	DV	_= Total Cover	
			Hydrophytic
			Vegetation
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	= Total Cover	Present? Yes X No
6 Bare Ground in Herb Stratum 15 ponded			half many the last the second

SOIL		Sampling Point: SP-K4
Profile Description: (Describe to the	depth needed to document the indicator or confirm	
Depth Matrix	Redox Features	- 현대 현실 전 1995년 전 1일 전 1995년 전 1일 시간 1995년 1일
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
mable to san	apr soil due to inu	water I water
1 1		
level 21	prap swale botton	
	/	
17 C-Consentation D-Danielian I	DM-Dadward Matrix CC-Covered as Coated Sand Co.	21 continue DI - Doro Lining ManMatrix
Hydric Soil Indicators: (Applicable to	RM=Reduced Matrix, CS=Covered or Coated Sand Gra	ains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
• • • • • • • • • • • • • • • • • • • •		-
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10) Red Parent Material (TF2)
Histic Epipedon (A2) Black Histic (A3)	Stripped Matrix (S6) Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	• • •	T Other (Explain in Nemarks)
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		Γ
Type:		·
Depth (inches):		Hydric Soil Present? Yes No
, , ,		I .
Remarks: Assure Mydri	e soils due to preme	of obliver
alanks at his	to de live la contraction	0000
puns mi	man morro ayy	
•	1 01	
HYDROLOGY		
Wetland Hydrology Indicators:		
Trouble try aronogy manualors.		

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1) Water-Stained Leaves (B9) (exception)	water-Stained Leaves (B9) (MLRA 1, 2,
✓ High Water Table (A2) MLRA 1, 2, 4A, and 4B)	4A, and 4B)
✓ Saturation (A3) Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1) Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Oxidized Rhizospheres along Livir	ng Roots (C3) Geomorphic Position (D2)
Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5) Recent Iron Reduction in Tilled So	ils (C6) FAC-Neutral Test (D5)
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (L	LRR A) Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8)	
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 5	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes $\frac{1}{2}$ No Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	•
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	tions), if available:
Remarks: 5" A family and the family	
1 10 May was y	
1	

Project/Site: Sammamish-Juanita Transmission Line	Project	Ci	itv/County:	Kirkland	Sampling Date: 6/4/2019
Applicant/Owner: Puget Sound Energy					te: WA Sampling Point: SP-7
Investigator(s): JDB, GM		Se	ection, Towr		9:
Landform (hillslope, terrace, etc.):					
					Datum:
Soil Map Unit Name:					NWI Classification: PEM
Are climatic / hydrologic conditions on the site typical	for this time	of year	? O Yes		
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐	significantly	y disturb	oed?	Are "N	Normal Circumstances" present?
Are Vegetation \square , Soil \square , or Hydrology \square	naturally pr	roblema	tic?	(If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site m	าap show	ing sa	mpling p	oint loca	tions, transects, important features, etc.
Hydrophytic Vegetation Present? • Yes Hydric Soil Present? • Yes	O No O No			e Sampled <i>A</i>	O
Wetland Hydrology Present? Yes	O No		withii	n a Wetland	1? • Yes • No
Remarks: WETLAND K-G. Verification of sampling point taken has changed to FAC VEGETATION – Use scientific names of		14, vege	etation has c	:hanged sligl	htly with no reed canarygrass, indicator status for RUAR
	Absolute	Dom.	Relative	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft)	% Cover			Status #N/A	Number of Dominant Species
1. Betula sp. (red birch) 2.	20		100.0	#N/A	That Are OBL, FACW, or FAC: 4 (A) Total Number of Deminant
3.					Total Number of Dominant Species Across All Strata:5 (B)
4.					Percent of Dominant Species
	20	= Total	Cover	_	That Are OBL, FACW, or FAC: 80.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15ft x 15ft)	20	.,	100.0	E4 014/	Prevalence Index worksheet:
1. Spiraea douglasii		<u>Y</u>	100.0		Total % Cover of: Multiply by:
3.					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
4.					FACW species 50 x 2 = 100
5.					FAC species 30 x 3 = 90
	20	= Total	Cover		FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5ft x 5ft)	40		35.0	=40	UPL species $0 \times 5 = 0$
Equisetum arvense Typha latifolia	30	<u>Y</u>	<u>25.0</u> 75.0	FACW	Column Totals: <u>80</u> (A) <u>190</u> (B)
3		<u>'</u>	73.0	TACVV	Prevalence Index = B/A = 2.375
4.					Hydrophytic Vegetation Indicators:
5.					1 - Rapid Test for Hydrophytic Vegetation
6					☑ 2 - Dominance Test is >50%
7					☑ 3 - Prevalence Index is ≤3.0¹
8					4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
9					5 - Wetland Non-Vascular Plants¹
11.					Problematic Hydrophytic Vegetation¹ (Explain)
	40	= Total	Cover		¹Indicators of hydric soil and wetland hydrology must be
Woody Vine Stratum (Plot size: 15ft x 15ft)					present, unless disturbed or problematic.
Rubus armeniacus	20	<u>Y</u>	100.0	FAC	
2		T-1-1			Hydrophytic Vegetation
% Bare Ground in Herb Stratum	20	= Total	Cover		Present? • Yes • No
Remarks:					
50% open water					
					1227

SOIL Sampling Point: SP-7

Profile Desc	cription: (De	escribe to	the dept	h needed to	o docume	ent the ir	ndicator o	or confir	m the absence of in	dicators.)		
Depth		Matrix				ox Featur						
(inches)	Color (n	noist)	<u>%</u>	Color (r	noist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks	<u> </u>
0-8	10YR	3/2	95	7.5YR	4/6	5	C	M	Silt Loam			
8-20	2.5YR	4/2	40	5YR	5/8	50	С	M	Silt Loam	angular ro	ocks	
				10YR	5/1	10	D_	М				
												_
									-	1 (
										1		
										· -		
¹Type: C=Co								d Sand G			Pore Lining, N	
Hydric Soil		(Applical	ble to all L				d.)				lematic Hydr	ic Soils3:
☐ Histosol (☐ Sandy F						Muck (A10)	- L (TEO)	
☐ Histic Epip☐ Black Hist				☐ Stripped ☐ Loamy I			(avcant N	Μ DΛ 1)		Parent Materi	ai (1F2) «Surface (TF1	12)
Hydrogen)		Loamy	-		(except i	VILIXA I)	-	r (Explain in I		12)
	Below Dark		A11)	✓ Deplete						(Explain iii	rtomarko)	
Thick Dar		•	•	Redox [3Indicate	ors of hydrop	hytic vegetati	on and
Sandy Mu				□ Deplete		-)		wetland	hydrology m	ust be preser	
☐ Sandy Gle	eyed Matrix ((S4)		Redox [Depression	ns (F8)			unless o	disturbed or p	roblematic.	
Restrictive	Layer (if pre	esent):										
Type:											_	_
Depth (in	iches):								Hydric Soil P	resent?	Yes	O No
Remarks:									l .			
HYDROLO	GY											
Wetland Hy	drology Ind	icators:										
Primary Indi		mum of or	ne required						_		(2 or more r	
☑ Surface W				☐ Wa	ter-Staine			cept			aves (B9) (ML	RA 1, 2,
High Wate)			MLRA 1,		nd 4B)			A, and 4B)	(0.1.0)	
✓ Saturation					t Crust (B		(D12)			age Patterns		
☐ Water Ma☐ Sediment		2)		`	uatic Invei drogen Su					Season Water	on Aerial Ima	nery (C9)
☐ Drift Depo		2)		_	dized Rhiz			/ina Root		norphic Positi		igery (C7)
☐ Algal Mat		!)			sence of I	-	_			ow Aquitard		
☐ Iron Depo		•			ent Iron I			Soils (Cé		Neutral Test		
☐ Surface S	oil Cracks (B	6)		☐ Stu	nted or St	tressed P	lants (D1)	(LRR A)	☐ Raise	d Ant Mound	ls (D6) (LRR A	4)
Inundatio					er (Explai	in in Rem	arks)		☐ Frost	-Heave Humi	mocks (D7)	
☐ Sparsely \	Vegetated Co	oncave Su	ırface (B8)									
Field Obser	vations:											
Surface Wat	ter Present?	Yes	O N	_	pth (inche	es):	4					
Water Table	Present?	Yes	O N	o De	pth (inche	es):	0					
Saturation P		Yes	O N	o De	pth (inche	es):	0	v	Vetland Hydrology F	Present?	Yes	O No
(includes cap			aauaa ~==	nitoring	Lacricial	hotos ==	ovious in-	noctions) if available:			
Describe Re	corueu Data	ı (siream)	yauge, mo	intoring wel	i, aeriai pi	notos, pre	ะขอนธ เกร	pections), if available:			
Remarks:												
Sample data	a from 4/17/2	2014 had	14 inches	of surface w	ater							
											400	0
											122	O

Project/Site: Sammamish-Juanita Tr	ansmission Line	Project	Cit	ty/County:	Kirkland	Sampling Date: 6/4/2019
Applicant/Owner: Puget Sound Ene				Sta	te: WA Sampling Point: SP-KG1	
Investigator(s): JDB, GM			Se	ection, Town	nship, Range	e:
Landform (hillslope, terrace, etc.): up	land bank of dite	ch	Lo	cal relief (c	oncave, con	vex, none): <u>none</u> Slope (%): <u>60</u>
Subregion (LRR): A		Lat:			Long:	Datum:
Soil Map Unit Name:						NWI Classification: upland
Are climatic / hydrologic conditions o	n the site typical	l for this time	of year?	? O Ye	s 💿 N	0 (If no, explain in Remarks.)
Are Vegetation \square , Soil \square , or \square	Hydrology \square	significantl	y disturb	ed?	Are "l	Normal Circumstances" present?
Are Vegetation \square , Soil \square , or	Hydrology \square	naturally p	roblemat	tic?	(If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS -	Attach site n	nap show	ing sa	mpling p	oint loca	tions, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	YesYesYes	O No No No			e Sampled <i>i</i> n a Wetland	
Remarks: Verification of sampling point taken VEGETATION – Use scientif			s change	ed slightly		
		Absolute	Dom.	Relative	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:		% Cover	Sp.?	% Cover	Status	Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
2. 3.						Total Number of Dominant Species Across All Strata: 3 (B)
4.			= Total	Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:						Prevalence Index worksheet:
1						Total % Cover of: Multiply by:
3.						OBL species 0 x 1 = 0
4.						FACW species 20 x 2 = 40
5						FAC species 45 x 3 = 135
Hank Charters (Diet sines Ett.) Ett	\		= Total	Cover		FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5ft x 5ft 1. Phalaris arundinacea	 '	20	Υ	33.3	FACW	UPL species 0 x 5 = 0 Column Totals: 65 (A) 175 (B)
Equisetum arvense		40	<u> </u>	66.7	FAC	
3.						Prevalence Index = B/A = 2.692
4						Hydrophytic Vegetation Indicators:
5						1 - Rapid Test for Hydrophytic Vegetation
6	_					2 - Dominance Test is >50%
7.						 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
8. 9.						data in Remarks or on a separate sheet)
10.						5 - Wetland Non-Vascular Plants ¹
11.						Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)	60	= Total	Cover		¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic.
 Rubus armeniacus 2. 		5	<u>Y</u>	100.0	FAC	Hydrophytic
		5	= Total	Cover		Vegetation Present? Yes No
% Bare Ground in Herb Stratum Remarks:						
NGIIIAINS.						1229

SOIL Sampling Point: SP-KG1

Depth		/latrix		h needed to docum Red	ox Featu					- ,		
	Color (mo	oist)	%	Color (moist)	%	Type ¹	Loc ²	Tex	ture	-	Remark	S
D-14 1	10YR	3/2	80					Loam		20% grav	/el	
4-20 1	10YR	4/2	100					Gravelly	Silt Loam			
										'		
				Reduced Matrix, CS=			d Sand Gr	ains.			Pore Lining, N	
	cators: (/	Applica	ble to all L	RRs, unless otherw		ed.)					lematic Hyd	ric Soils³:
Histosol (A1)				Sandy Redox (S5						luck (A10)		
Histic Epipedo				Stripped Matrix (rent Mater		
Black Histic (A				Loamy Mucky Mir			VILRA 1)		U Very Si		k Surface (TF	12)
☐ Hydrogen Sul☐ Depleted Belo		urfaca (۸11)	☐ Loamy Gleyed Ma					□ Other (Explain in	Remarks)	
Thick Dark Su			A11)	Redox Dark Surfa					3ln diantor	a of budror	butio voqotot	tion and
Sandy Mucky	•	•		☐ Depleted Dark Su		7)					ohytic vegetat nust be prese	
Sandy Gleyed				Redox Depression		,					problematic.	,
estrictive Laye	er (if pres	ent):										
Type:												
Depth (inches	s):							Hvdr	ic Soil Pre	sent?	O Yes	No
Remarks:												
IYDROLOGY												
Wetland Hydrol											4-	
		um of o	ne required	I; check all that apply		(DO) (ove	nont.				s (2 or more aves (B9) (MI	
J Surface Water ☐ High Water Ta				☐ Water-Staine MLRA 1,			сері			stained Le , and 4B)	aves (B9) (IVII	LKA I, Z,
Saturation (A	` '			☐ Salt Crust (B		nu 4b)			☐ Drainag	. ,	(B10)	
Water Marks	-			☐ Aquatic Inve		(B13)					r Table (C2)	
Sediment Dep)		☐ Hydrogen Su					-		on Aerial Ima	agery (C9)
Drift Deposits				Oxidized Rhi			ving Roots	s (C3)	☐ Geomo			0 , ,
Algal Mat or C	Crust (B4)			☐ Presence of	Reduced	Iron (C4)			☐ Shallov	/ Aquitard	(D3)	
Iron Deposits				Recent Iron)	☑ FAC-Ne			
Surface Soil C			(5.7)	Stunted or S			(LRR A)				ds (D6) (LRR	A)
Inundation Vis				☐ Other (Expla	in in Ren	narks)			☐ Frost-F	leave Hum	mocks (D7)	
Sparsely Vege		icave Su	пасе (вв)									
ield Observati		.										
Surface Water P	resent?	O Yes	⊚ N									
Nater Table Pre		O Yes	● N									
Saturation Prese		O Yes	⊚ N	o Depth (inche	es):		w	etland Hy	drology Pr	esent?	O Yes	No
(includes capillar Describe Record		stream	naline mo	nitoring well, aerial p	hotos or	evious ins	nections)	if availahl	۵.			
COOMING INGCOIL	.ou Dala (Jucani	gaage, 1110	imoning won, acrial p	, pi	CVIOUS IIIS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ii avallabl	. .			
Remarks:												
											123	

Project/Site: Sammamish-Juanita Transmission Line	Project	C	itv/County:	Kirkland	Sampling Date: 6/4/2019
Applicant/Owner: Puget Sound Energy	<u> </u>				e: WA Sampling Point: SP-KG2
Investigator(s): JDB, GM		Sı	ection, Towr		:
Landform (hillslope, terrace, etc.):					
					Datum:
Soil Map Unit Name:					NWI Classification: PEM
Are climatic / hydrologic conditions on the site typical	for this time	of year	? O Yes		
Are Vegetation □ , Soil □ , or Hydrology □	significantl	,			Normal Circumstances" present? Yes No
Are Vegetation □ , Soil □ , or Hydrology □	naturally pi	•			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site m					
Hydrophytic Vegetation Present? Yes	O No		1		
Hydric Soil Present? Yes	O No			Sampled A	O
Wetland Hydrology Present? Yes	O No		Within	n a Wetland	
Remarks:	11/0/00	17			
WETLAND K-G. Verification of sampling point taker	1 ON 11/6/20	17, vege	etation has d	hanged silgi	ntly
VEGETATION – Use scientific names of	plants.			<u> </u>	
	Absolute	Dom.	Relative	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover			Status	Number of Dominant Species
1					That Are OBL, FACW, or FAC: 3 (A)
2.					Total Number of Dominant
3					Species Across All Strata: 3 (B)
4		= Total	Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:)		- •	00.0.		(``,
1.					Prevalence Index worksheet:
2					Total % Cover of: Multiply by:
3					OBL species 50 x 1 = 50
4					FACW species 30 x 2 = 60 FAC species 5 x 3 = 15
5		= Total			FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5ft x 5ft)			00.0.		UPL species 0 x 5 = 0
1. Typha latifolia	40	<u>Y</u>	48.8	OBL	Column Totals: <u>85</u> (A) <u>125</u> (B)
2. <u>Sparganium</u> sp.	20	<u>Y</u>	24.4	FACW	Prevalence Index = B/A = 1.471
3. Phalaris arundinacea	10	<u>N</u>	12.2	FACW	
4. Solanum dulcamara	2	<u>N</u> _	2.4	FAC	Hydrophytic Vegetation Indicators:
5. Schoenoplectus acutus 6.	10	<u>N</u>	12.2	OBL	☐ 1 - Rapid Test for Hydrophytic Vegetation☑ 2 - Dominance Test is >50%
7.					✓ 3 - Prevalence Index is ≤3.0¹
8.					4 - Morphological Adaptations ¹ (Provide supporting
9.					data in Remarks or on a separate sheet)
10					5 - Wetland Non-Vascular Plants ¹
11					☐ Problematic Hydrophytic Vegetation¹ (Explain)
March Mine Charles (Diet eine 45th v 45th	82	= Total	Cover		¹Indicators of hydric soil and wetland hydrology must be
Woody Vine Stratum (Plot size: 15ft x 15ft) 1. Rubus armeniacus	3	Υ	100.0	FAC	present, unless disturbed or problematic.
2.			100.0	FAC	Hydrophytic
	3	= Total	Cover		Vegetation
% Bare Ground in Herb Stratum					Present? • Yes • No
Remarks:					
15% open water					
					1231

SOIL Sampling Point: SP-KG2

Profile Desc	cription: (De	escribe to	the depti	n needed to docum	ent the in	dicator o	r confirm	n the absence of in	dicators.)	<u> </u>	
Depth		Matrix			ox Featur						
(inches)	Color (n	noist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks	
0-1									Organic n	natter	
1-6	10YR	2/2	100					Silt Loam			
>6									Unable to	sample below	6"
											
¹Type: C=Co	oncentration	D=Deplet	ion RM=F	Reduced Matrix, CS=	-Covered	or Coated	Sand Gr	ains 21 c	cation: PI =F	Pore Lining, M=	-Matrix
				RRs, unless other			Garia Gr			lematic Hydric	
☐ Histosol ((A1)			☐ Sandy Redox (S5	5)	•		☐ 2 cm	Muck (A10)	•	
Histic Epi				☐ Stripped Matrix (Parent Materi	ial (TF2)	
☐ Black Hist	tic (A3)			Loamy Mucky Mi	neral (F1)	(except N	ILRA 1)	☐ Very	Shallow Dark	Surface (TF12	2)
☐ Hydrogen				Loamy Gleyed M				✓ Other	r (Explain in	Remarks)	
	Below Dark			☐ Depleted Matrix							
☐ Thick Dar ☐ Sandy Mu		-		☐ Redox Dark Surfa☐ Depleted Dark So		`				hytic vegetatio	
Sandy Gle	-			Redox Depressio	-)			nyarology m disturbed or p	ust be present problematic.	,
Restrictive					(. 0)			1			
_		,.									
Type: Depth (in	iches).							Hydric Soil P	resent?	Yes	O No
Remarks:								Tiyano com t			
Assume hyd	Iric soils due	to presen	ce of oblig	ate plants and wetla	and hydrol	ogy					
HYDROLO		. ,									
Wetland Hy								C d		(2)	
Primary Indi		num of on	<u>e required</u>	; check all that appl Water-Stain		(BQ) (avc	ont			<u>s (2 or more re</u> aves (B9) (MLR	
☐ Surface W	, ,)			, 2, 4A, ar		ері		A, and 4B)	IVES (D7) (IVILK	A 1, 2,
✓ Saturation		,		☐ Salt Crust (E					age Patterns	(B10)	
☐ Water Ma	rks (B1)			☐ Aquatic Inve	ertebrates	(B13)			Season Water		
Sediment		2)		Hydrogen Su						on Aerial Imag	ery (C9)
Drift Depo				Oxidized Rh	-	_	ing Roots		norphic Positi		
Algal Mat)		☐ Presence of ☐ Recent Iron			Salla (C()		ow Aquitard		
☐ Iron Depo ☐ Surface S		6)		Stunted or S					Neutral Test	(D3) ls (D6) (LRR A)	
☐ Inundatio	-	-	gery (B7)	Other (Expla			(Litti 7ty		-Heave Humi		
☐ Sparsely \				_ ` .		•		_		` '	
Field Obser	vations:										
Surface Wat	ter Present?	Yes	ΟN	O Depth (inch	es):	1					
Water Table	Present?	Yes	ΟN	o Depth (inch	es):	0					
Saturation P		Yes	ОN	o Depth (inch	es):	0	w	etland Hydrology F	Present?	Yes	O No
(includes ca			augo mo	nitoring well, aerial p	hotos pro	vious inci	ooctions)	if available:			
Describe Ne	corded Date	(Sileain g	auge, mo	mioning well, aerial p	niotos, pre	zvious irisį	Jections),	, ii avaliable.			
Remarks: Sample data	a from 11/6/2	.017 had 5	inches of	surface water							
, , ,	-, -, -	, .									
										1000	

K-H

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Remarks: So refer that to cate the transfer of plants. Tree Stratum (Plot size: 1. Populus Ballsamilia score from 2b 2. 3. 4. Sapling/Shrub Stratum (Plot size: 1. Pally Shrube Assis 2. Herb Stratum (Plot size: 1. Pally Shrube Assis 2. Herb Stratum (Plot size: 1. Pally Shrube Assis 2. Lohic Cornectables 4. 5. 6. 7. 8. 9. 10.	State: Sampling Point: Sampling Point: State: State: Sampling Point: State: State: Sampling Point: State: State
pplicant/Owner: Investigator(s): TWA MIRABLE LADA HAMBE LADA HAM	State: Sampling Point: State: Sampling Point: State: Sampling Point: State: State: Sampling Point: State: S
andform (hillslope, terrace, etc.):	cal relief (concave, convex, none):
Indform (hillslope, terrace, etc.):	Cal relief (concave, convex, none):
ali Map Unit Name: the climatic / hydrologic conditions on the site typical for this time of year? the Vegetation, Soil, or Hydrology significantly dist are Vegetation, Soil, or Hydrology naturally proble under the problem of the prob	NWI classification: Yes No (If no, explain in Remarks.) turbed?
e climatic / hydrologic conditions on the site typical for this time of year? e Vegetation, Soil, or Hydrology significantly dist e Vegetation, Soil, or Hydrology naturally proble UMMARY OF FINDINGS — Attach site map showing satisfy the satisfy of the sati	Yes No (If no, explain in Remarks.) turbed?
e Vegetation, Soil, or Hydrology significantly dist e Vegetation, Soil, or Hydrology naturally proble UMMARY OF FINDINGS — Attach site map showing satisfy the site of the	Is the Sampled Area within a Wetland? Ominant Indicator pecies? Slatus No matic? (If needed, explain any answers in Remarks.) Ampling point locations, transects, important features, et a within a Wetland? Yes No No Ominant Indicator pecies? Slatus Number of Dominant Species
e Vegetation, Soil, or Hydrology naturally proble UMMARY OF FINDINGS — Attach site map showing satisfies a special problem of the state of t	Is the Sampled Area within a Wetland? Ominant Indicator pecies? Status Number of Dominant Species
UMMARY OF FINDINGS — Attach site map showing satisfy the solid present? Indicated the state of	Is the Sampled Area within a Wetland? Ominant Indicator pecies? Status Nampled Area within a Wetland? Dominance Test worksheet: Number of Dominant Species
Hydrophytic Vegetation Present? Hydric Soil Present? No Netland Hydrology Present? No Netland Hydrology Present? No Netland Hydrology Present? No No No Netland Hydrology Present? No No No Netland Hydrology Present? No No No No Netland Hydrology Present? No	Is the Sampled Area within a Wetland? Yes No No Ominant Indicator pecies? Status Number of Dominant Species
Address Stratum (Plot size: - Pank Stratum (Plot size: -	is the Sampled Area within a Wetland? Yes No According to the state of the state
Remarks: So appendiate to active without the state of plants. Free Stratum (Plot size:	ominant Indicator pecies? Status Number of Dominant Species
EGETATION - Use scientific names of plants. Iree Stratum (Plot size:	ominant Indicator pecies? Status Number of Dominant Species
Free Stratum (Plot size: % Cover S Dipulus Balsamilia scp. (Cover S Sapling/Shrub Stratum (Plot size:) Galy Shrub asis 10% Herb Stratum (Plot size:) Lahrs cornaulatus 59% A Dunex crispus 70000	pecies? Status Number of Dominant Species
Free Stratum (Plot size:	pecies? Status Number of Dominant Species
Sapling/Shrub Stratum (Plot size: Galix Strubensis Herb Stratum (Plot size: Analy Strubensis Lohx cornavolations Dunex ars pus Trace	// Co/ Number of Dominant Species
Saplina/Shrub Stratum (Plot size: - Galix Shube asis Jo% John Stratum (Plot size: - Analaris usun dilea 10% Long cornectables 59% A Runex asis pas Trace	1
Septing/Shrub Stratum (Plot size:) 90 11x Shrube ASTS 10% lerb Stratum (Plot size:) 10% 10% 10% 10% 10% 10% 10% 10	
erb Stratum (Plot size: Ya \text{V. Shade Assis} 10°/0	Total Number of Dominant Species Across All Strata: (B)
Septing/Shrub Stratum (Plot size:) 90 11x Shrube ASTS 10% lerb Stratum (Plot size:) 10% 10% 10% 10% 10% 10% 10% 10	Percent of Deminant Species (7)
Herb Stratum (Plot size: Lotax cornectatives Purex crispus Trace	Total Cover That Are OBL, FACW, or FAC: (A/B
lerb Stratum (Plot size: Phalance usun Area 100/0. Lotus cornulative 59/0 A Punex are pus Traco	Prevalence Index worksheet:
lerb Stratum (Plot size:) 1/2 = 1/2 = 1/0 / 0. Long cornaulatus 59/0 A PUNEX CUS POUS Trace	Total % Cover of: Multiply by: OBL species x 1 =
lerb Stratum (Plot size:) 1/2 = 1/2 = 1/0 / 0. Long cornaulatus 59/0 A PUNEX CUS POUS Trace	FACW species x 2 =
lerb Stratum (Plot size: Phalance voun dicea Lotic cornectative Purex crispus Trace	FAC speciesx3 =
lerb Stratum (Plot size: Na ans usundlea 100% Lotus cornulatus 59% A Rungex ans pus Trace	FACU species x4 =
Long cornectatus 59/0 A Punex cuisqus Trace	Total Cover UPL speciesx5=
Pures crispus Traca	1 FACY Column Totals:(A)(B)
	Prevalence Index = B/A =
0.	
0.	Hydrophytic Vegetation Indicators:
0.	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
0.	+ Hydrophytic vegetation indicators:
0.	— Hydrophytic Vegetation indicators: — 1 - Rapid Test for Hydrophytic Vegetation — 2 - Dominance Test is >50% — 3 - Prevalence Index is ≤3.0¹
0.	Hydrophytic Vegetation indicators:
	— Hydrophytic Vegetation Indicators: — 1 - Rapid Test for Hydrophytic Vegetation — 2 - Dominance Test is >50% — 3 - Prevalence Index is ≤3.0¹
	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
Inadu Vina Ctentura /Distains	## Hydrophytic Vegetation Indicators: ## 1 - Rapid Test for Hydrophytic Vegetation ## 2 - Dominance Test is >50% ## 3 - Prevalence Index is ≤3.0¹ ## 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ## 5 - Wetland Non-Vascular Plants¹ ## Problematic Hydrophytic Vegetation¹ (Explain) *Indicators of hydric soil and wetland hydrology must
Voody Vine Stratum (Plot size:)	Hydrophytic Vegetation Indicators:
	1 - Rapid Test for Hydrophylic Vegetation
// Coase =	Hydrophytic Vegetation Indicators:
6 Bare Ground in Herb Stratum / 6 \ Remarks:	Hydrophytic Vegetation Indicators:
Hydrophytic vegetation	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supportind data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes No.

PSE Kirclad Rul corrida SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) Color (moist) (Inches) Type¹ Loc² Texture Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix Indicators for Problematic Hydric Solis³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10). Red Parent Material (TF2) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks)

Type: Ro CLCS

Depth (Inches): 7511

Remarks: Golfs meet Hydric Soil Orteria for depletal make

Depleted Matrix (F3)

Redox Dark Surface (F6)

Redox Depressions (F8)

Depleted Dark Surface (F7)

Soils meet Hydric soil externa for deploted makey-: F3
Mossey/hummocley soils, we Hand Surwanded by fill to South it
twes

HYDROLOGY

Depleted Below Dark Surface (A11)

Thick Dark Surface (A12)

Sandy Mucky Mineral (S1)

Sandy Gleyed Matrix (S4)

Restrictive Layer (if present):

Wetland Hydrology Indica	ltors:	nigotografija. Tie de la serie della serie della serie della serie della serie de la serie della seri
Primary Indicators (minimus	m of one required: check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B Inundation Visible on A Sparsely Vegetated Co	Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Stunted or Stressed Plants (D1) (erial Imagery (B7) Other (Explain in Remarks)	4A, and 4B) Drainage Patterns (B10). Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ing Roots (C3) — Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes No Depth (inches): O (() Yes No Depth (inches): O Yes No Depth (inches): O	Wetland Hydrology Present? Yes No
(includes capillary fringe)	rea	aserging Dâniology Lieselitt 168 160
Describe Recorded Data (s	tream gauge, monitoring well, aerial photos, previous inspec	ctions), if available:
	solurated to be servere.	Some areas are insubstitut

³Indicators of hydrophytic vegetation and

wetland hydrology must be present,

unless disturbed or problematic.

Project/Site: Sammamish-Juanita Transmission Line	Proiect	Ci	ity/County:	Kirkland	Sampling Date: 6/4/2019
Applicant/Owner: Puget Sound Energy	<u> </u>		_		e: WA Sampling Point: SP-8
Investigator(s): JDB, GM		Se	ection, Towr		:
					vex, none): concave Slope (%): 0
					Datum:
Soil Map Unit Name:					NWI Classification: PFO
Are climatic / hydrologic conditions on the site typical	for this time	of year	? O Yes		
Are Vegetation □ , Soil □ , or Hydrology □	significantl	-			Normal Circumstances" present? Yes No
Are Vegetation □ , Soil □ , or Hydrology □	naturally p				eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site m					
Hydrophytic Vegetation Present? Yes	O No				
Hydric Soil Present? Yes	O No			e Sampled A	^ ^
Wetland Hydrology Present? Yes	O No	1	Withii	n a Wetland	? Yes O'NO
Remarks:					
WETLAND K-H. Verification of sampling point taken	on 4/17/20	14, vege	etation has c	hanged	
VEGETATION – Use scientific names of	plants.				
	Absolute	Dom.	Relative	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft)			% Cover	Status	Number of Dominant Species
Populus balsamifera	40	<u>Y</u>	100.0	FAC	That Are OBL, FACW, or FAC: 4 (A)
2					Total Number of Dominant
3.					Species Across All Strata: 5 (B)
4	40	= Total	Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15ft x 15ft)	-+0	= 1016	Covei		That Are OBE, I ACTV, OF LAC. 00.070 (A.D)
1. Populus balsamifera	20	Υ_	100.0	FAC	Prevalence Index worksheet:
2.					Total % Cover of: Multiply by:
3					OBL species 0 x 1 = 0
4					FACW species5 x 2 =10
5	20	= Total	Cover		FAC species 66 x 3 = 198 FACU species 5 x 4 = 20
Herb Stratum (Plot size: 5ft x 5ft)		= 10tai	Covei		UPL species 0 x 5 = 0
Phalaris arundinacea	5	Υ	31.3	FACW	Column Totals: 76 (A) 228 (B)
2. Lotus corniculatus	5	Υ	31.3	FAC	
3. Juncus tenuis	1	N	6.3	FAC	Prevalence Index = B/A = 3.000
4. Cirsium vulgare	5	<u>Y</u>	31.3	FACU	Hydrophytic Vegetation Indicators:
5					1 - Rapid Test for Hydrophytic Vegetation
6.					2 - Dominance Test is >50%3 - Prevalence Index is ≤3.0¹
7					4 - Morphological Adaptations¹ (Provide supporting
9.					data in Remarks or on a separate sheet)
10.					☐ 5 - Wetland Non-Vascular Plants¹
11.					☐ Problematic Hydrophytic Vegetation¹ (Explain)
	16	= Total	Cover	_	¹ Indicators of hydric soil and wetland hydrology must be
Woody Vine Stratum (Plot size:)					present, unless disturbed or problematic.
1.					
2		= Total	Cover		Hydrophytic Vegetation
% Bare Ground in Herb Stratum 60		_= 10tai	Cover		Present? • Yes • No
Remarks:					
15% open water					
					1235

SOIL Sampling Point: SP-8

Profile Description: (Describe to the dep	th needed to docume	ent the in	dicator c	r confirm	the absence of ind	icators.)
Depth Matrix	Redo	x Feature	es			
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6 10YR 4/2 90	10YR 6/8	10	С	М	Silt Loam	
>6					<u> </u>	Rocks, unable to sample below 6
¹Type: C=Concentration, D=Depletion, RM:	-Peduced Matrix CS-	Covered	or Coated	Sand Gr	aine 2l oc	ation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all				i Sand On		s for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Sandy Redox (S5)		,		☐ 2 cm N	•
☐ Histic Epipedon (A2)	☐ Stripped Matrix (S					rent Material (TF2)
☐ Black Histic (A3)	Loamy Mucky Min		(except N	/ILRA 1)		nallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Ma			•	-	Explain in Remarks)
☐ Depleted Below Dark Surface (A11)	□ Depleted Matrix (
Thick Dark Surface (A12)	Redox Dark Surfa	. ,			3Indicators	s of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Su)			ydrology must be present,
☐ Sandy Gleyed Matrix (S4)	Redox Depression	ıs (F8)			unless dis	sturbed or problematic.
Restrictive Layer (if present):						
Туре:						0
Depth (inches):					Hydric Soil Pre	esent? • Yes O No
Remarks:					•	
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one require	ed; check all that apply)			Secondary	/ Indicators (2 or more required)
Surface Water (A1)	☐ Water-Staine	d Leaves	(B9) (exc	ept	✓ Water-	Stained Leaves (B9) (MLRA 1, 2,
☐ High Water Table (A2)	MLRA 1,	2, 4A, an	d 4B)			, and 4B)
Saturation (A3)	Salt Crust (B	•			•	ge Patterns (B10)
Water Marks (B1)	Aquatic Inver				•	ason Water Table (C2)
Sediment Deposits (B2)	☐ Hydrogen Su		. ,	ina Deete		ion Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)	☐ Oxidized Rhiz☐ Presence of F		-	ing Roots	· · ·	rphic Position (D2)
☐ Iron Deposits (B5)	Recent Iron F		` '	Soils (CA)		v Aquitard (D3) eutral Test (D5)
✓ Surface Soil Cracks (B6)	☐ Stunted or St					Ant Mounds (D6) (LRR A)
☐ Inundation Visible on Aerial Imagery (B7				(Little 71)		leave Hummocks (D7)
✓ Sparsely Vegetated Concave Surface (B8	•		,		_	,
Field Observations:	•					
Surface Water Present? O Yes	No Donth (incho	٥).				
0 0						
				<u> </u>	otlond Usdrologs Dr	esent? • Yes • No
Saturation Present? Yes (includes capillary fringe)	No Depth (inche	s).		— W	etland Hydrology Pr	esent? • Yes • No
Describe Recorded Data (stream gauge, m	onitoring well, aerial ph	notos, pre	vious ins	pections),	if available:	
. 5 6	- ·	•		,.		
Remarks:						
Sample data from 4/17/2014 had 1 inch of	surrace water					
						1236

K-J

WETLAND DETERMINATION DATA FORM - Western	Mountains, Valleys, and Coast Region
(KG Virta a)	11.0/
Project Site: 10 fees City/Co	ounty: Sampling Date:
Applicant/Owner VAGUE	Ustate: Sampling Point: T_00
Investigator(s): T.M. L'holy Hurer)	Section, Township, Range:
Landform (hillstope, terrace, etc.):	그리는 이 이 전에 이렇게 하게 하면 없다면 하는 것이 하는 이 회에 생각하는 생각이 되는 것이 되었습니다.
Subregion (LRR): Lat:	
Soil Map Unit Name:	NWI classification;
Are climatic / hydrologic conditions on the site typical for this time of year?	
	LJ No (If no, explain in Remarks.) e "Normal Circumstances" present? Yes III No II
(II)	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling point location	
	s, transects, important features, etc.
Unide Call Dancie	npled Area
Within a V	
Remarks: Cycle hat in Fester and of the	Value Programme
North side of trail	
VEGETATION - Use scientific names of plants	######################################
Tree Stratum (Plot size:	Dominance Test Worksheet:
1. Silva Silva Silva Y FAC	Number of Dominant Species
2 led March Ind. FAC	That Are OBL, FACW, or FAC; (A)
3	[2] [12] 전 발발한다는 사용한다는 사람들이 있다면 보고 있는 사람들이 되었다면 보고 있다면 보다 하는 사람들이 되었다면 보다 하는 사람들이 되었다면 보다 되었다
	Total Number of Dominant Species Across All Strata: (B)
50% = 20% = * Total Cover	
Sapling/Shrub Stratum (Plot size:)	Percent of Dominant Species That Are OBE, FACW, or FAC: (A/B)
1. AC willing JOD 4 AW	
2	Pravalunce: Index worksheet:
3.	Total % Cover of: Multiply by:
<u> </u>	OBL species X1 =
5.	FACW species x2 =
50% = 20% =	FAC species x3 =
Herb Stratum (Plot size: ,)	FACU species x4 =
0.50	UPL species x5 =
1. PCO = X0% 7 HCW	Column Totals:(A)(B)
2 Horse = FAC	Prevalence Index = B/A =
- tour fens The A -	Hydrophytic Vegetation Indicators:
	☐ 1 – Rapid Test for Hydrophytic Vegetation
5 - Laver N H	2 - Dominance Test is >50%
	3. Prevolence Index is as of
	3. 10 Idente 110EA 18 25.0
St in the control of the con	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
	5 - Wetland Non-Vascular Plants¹
10	[1] <u>[18] [</u> [18] [18] [18] [18] [18] [18] [18] [18]
	☐ Problematic Hydrophytic Vegetation¹ (Explain)
0% = 20% = = Total Cover	Indicators of hydric soil and wetland hydrology must
Monda Vine Chalum Itilat alma	be present, unless disturbed or problematic.
TO/O.N FAC	
	Hydrophytic
0% = 20% =	Venetation
= lotal Cover *	Present?
Bare Ground in Herb Stratum 10 > 0 cived lone +	A CANDA TA BARRAY ARRAY ARRAY TAMBARAY PROPERTY ARRAY AR
emarks: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
mextre Town	01.H
Mark of	Y 10 1

US Army Corps of Engineers

Project Site:			2P Q
SOIL			pling Point: 5
Profile Description: (Describe to the depth needed to	ocument the indicator or confirm the abs	ence of indicators.)	
Depth Matrix	Redox Features		and the second s
(inches) Color (moist) / 1/4 Color (m	oist) % Type¹ Loc²	Texture	Remarks
100 00 - 254 51 HOD 90-			- MARGAN
		. <u> </u>	- 200
**************************************	. Indiana distrit (1775)	eritailaise en	- 501 1
			$ Suh_{red}$
The second secon	والمستبدية والمستبدعة والمستبدء والمستبدعة والمستبدعة والمستبدعة والمستبدعة والمستبدعة والمستبدعة والمستبدعة والمستبدعة والمستبدء والمستبدء والمستبدعة والمستبدء والمستبد والمستبدء والمستبدء والمستبدء والمستبدء والمستبدء والمستبدء وال	 	race
manufacture section of the section o			<i>U</i>
Market Control of the	, and the second secon		. Tarius
Type: Ca Concentration, D=Depletion, RM=Reduced Ma	rix, CS=Covered or Coated Sand Grains.	² Location: PL=Pore Lin	ing, M=Matrix
Hydric Soll Indicators: (Applicable to all LRRs, unless		Indicators fo	r Problematic Hydric Solis³:
☐ Histonol (A1)	Sandy Redox (S5)	☐ 2 cm l	Nuck (A10)
☐ Histic Epipedon (A2)	Stripped Matrix (S6)	☐ Red P	arent Material (TF2)
☐ Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA		hallow Dark Surface (TF12)
☐ Hydrogen Sulfide (A4) ☐	Loamy Gleyed Matrix (F2)	美 Other	(Explain in Remarks)
☐ Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	J	.
☐ Thick Dark Surface (A12)	Redox Dark Surface (F6)	Stantian esant as	5d
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		hydrophytic vegetation and drology must be present.
☐ Sandy Gleyed Matrix (54) ☐	Redox Depressions (F8)	unless dis	urbed or problematic.
Restrictive Layer (if present):		ज इ	
Type:	Hindrin Sc	ills Present?	Yes No
Depth (inches):		VID LICHOTITI	177 W 177
Manager 1	اسان ا		
Remarks: 1 ap depour	(From od, west d	uno o	
Golgap departin	stron od, west d	inge.	•
I MINU II U I	stron odjacet d	renje.	
Golfar mar	all and the second seco	renje.	
Golder materials	all and the second seco	renje.	
HYDROLOGY	all and the second seco	reje.	
HYDROLOGY Wetland Hydrology Indicators:	\$. 20		cators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check at the	\$. 20	Secondary Ind	cators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators:	at apply)	Secondary Ind	
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check at the Call Surface Water (A1)	at apply) Water-Stained Leaves (B9)	Secondary Ind Water-St (MLRA 1	ained Leaves (B9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check at the Burface Water (A1) D High Water Table (A2)	at apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Secondary Ind Water-St (MLRA 1	sined Leaves (B9) , 2, 4A, and 4B)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check at the primary Indicators (Minimum of one required; check at the primary Indicators (A1) D. High Water Table (A2) D. Saturation (A3)	at apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Secondary Ind Water-St (MLRA 1) Drainage Dry-Seas	nined Leaves (89) , 2, 4A, and 4B) Patterns (810)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check at the District Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	wit apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Secondary ind Water-St (MLRA 1 Drainage Dry-Sear	nined Leaves (89) , 2, 4A, and 4B) Patisins (810) on Waler Table (C2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check at the control of t	wt apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Ind Water-St (MLRA 1 Drainage Dry-Seas Saturatio (C3) Geomory	ained Loaves (B9) , 2, 4A, and 4B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check at the primary Indicators (minimum of one required; check at the primary Indicators (minimum of one required; check at the primary Indicators (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sadiment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	wat apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solls (C6)	Secondary Ind Warter-St (MLRA 1 Drainage Dry-Seas Saturatio (C3) Geomory Shallow	ained Leaves (89) , 2, 4A, and 4B) Patterns (810) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) tral Test (D5)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check at the primary Indicators (minimum of one required; check at the primary Indicators (minimum of one required; check at the primary Indicators (Male on the primar	water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solls (C6) Stunted or Stresses Plants (D1) (LRR A)	Secondary Ind Water-St (MLRA 1 Drainage Dry-Seas Saturatio (C3) Geomory Shallow A FAC-Net Raised A	nined Leaves (89) , 2, 4A, and 4B) Patterns (810) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) riral Test (D5) nt Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all the control of	wat apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solls (C6)	Secondary Ind Water-St (MLRA 1 Drainage Dry-Seas Saturatio (C3) Geomory Shallow A FAC-Net Raised A	ained Leaves (89) , 2, 4A, and 4B) Patterns (810) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) tral Test (D5)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all th D Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solls (C6) Stunted or Stresses Plants (D1) (LRR A)	Secondary Ind Water-St (MLRA 1 Drainage Dry-Seas Saturatio (C3) Geomory Shallow A FAC-Net Raised A	nined Leaves (89) , 2, 4A, and 4B) Patterns (810) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) riral Test (D5) nt Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all the control of	water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solls (C6) Stunted or Stresses Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Ind Water-St (MLRA 1 Drainage Dry-Seas Saturatio (C3) Geomory Shallow A FAC-Net Raised A	nined Leaves (89) , 2, 4A, and 4B) Patterns (810) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) riral Test (D5) nt Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check at the primary Indicators (minimum of one required; check at the primary Indicators (minimum of one required; check at the primary Indicators (A1) Burface Water (A1) Water Marks (B1) Saturation (A3) Water Marks (B1) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No	water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Soils (C6) Stunted or Stresses Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Ind Water-St (MLRA 1 Drainage Dry-Seas Saturatio (C3) Geomory Shallow A FAC-Net Raised A	nined Leaves (89) , 2, 4A, and 4B) Patterns (810) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) riral Test (D5) nt Mounds (D6) (LRR A)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check at the primary Indicators (minimum of one required; check at the primary Indicators (minimum of one required; check at the primary Indicators (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sadiment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Water Table Present?	water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheras along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Titled Solls (C6) Stunted or Stresses Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches):	Secondary Ind Water-St (MLRA 1 Drainage Dry-Seat Saturatio (C3) Geomory Shallow a FAC-Net Raised A Frost-He	nined Leaves (89) , 2, 4A, and 4B) Patterns (810) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2) Aquitard (D3) Itral Test (D5) nt Mounds (D6) (LRR A) ave Hummocks (D7)
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1 10 CIT	y/County: <u>ነሩ ነና ነ</u>	Land King Cos Sampling Date: SP-KJ1		
41		State: WA Sampling Point: 10, 94,13		
sis and se	ction, Township, Ra	nge:		
- Ir	ocal relief (concave	convex none): Cook AVE Slone (%):		
	masaminas gadamagas pagaminan minana mag	NWI classification:		
		"Normal Circumstances" present? Yes X No		
_ naturally proble	ematic? 🏳 (If ne	eeded, explain any answers in Remarks.)		
p showing s	ampling point l	ocations, transects, important features, etc		
No				
No	Is the Sampled	d Area and? Yes <u>X</u> No		
No	within a Wetlar	nd? Yes <u>A</u> No		
- T -William	and the state of t			
ants.				
		Dominance Test worksheet:		
<u>% Cover_S</u>	pecies? Status	Number of Dominant Species		
		That Are OBL, FACW, or FAC: (A)		
		Total Number of Dominant Species Across All Strata: (B)		
		Species Across All Strata:(B)		
	Total Cover	Percent of Dominant Species 33 That Are OBL FACW or FAC: 83 (A/B)		
	Total Cover	That / to ODE, / //OV, OF //O:		
ા ા) FAC	Prevalence Index worksheet:		
<u> </u>	FACW	Total % Cover of: Multiply by:		
<u> </u>	<u>FA.c.</u>	OBL species x 1 =		
	EAC.	FACW species x 2 =		
		FAC species x 3 = FACU species x 4 =		
<u>35 -</u>	Total Cover	UPL species x 5 =		
K	G.	Column Totals: (A) (B)		
$-\frac{3}{5}$				
_ 20		Prevalence Index = B/A =		
_ }		Hydrophytic Vegetation Indicators:		
		1 - Rapid Test for Hydrophytic Vegetation		
_=		2 - Dominance Test is >50%		
15.0 20 11 Feb. 12.		3 - Prevalence Index is ≤3.0 ¹		
7	*	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
		5 - Wetland Non-Vascular Plants¹		
		Problematic Hydrophytic Vegetation ¹ (Explain)		
		Indicators of hydric soil and wetland hydrology must		
	Total Cover	be present, unless disturbed or problematic.		
and the second s	TOTAL COVE			
<u> 40 _</u>	D FALW	Hydrophytic		
		Vegetation		
	Total Cover	Present? Yes No		
	Shr			
	this time of year?this time of year?significantly disnaturally proble p showing so No	Local relief (concave, Lat: this time of year? Yes No_ significantly disturbed? No_ naturally problematic? No (If no p showing sampling point I No_ No_ No_ No_ No_ The sample within a Wetlan The s		

Depth Matrix		Redox Features Color (moist) % Type¹ Loc²	r Barra & Arabi
(inches) Color (moist)			
0-2 GI HN	<u> 50 </u>		
2-10 GI HN	DD		silt learn
			\$
<u>.</u>			
			entre de la companya
	<u> </u>		7.
		teduced Matrix, CS=Covered or Coated Sand	
-	olicable to all Li	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	<i>-</i>	Sandy Redox (S5) Stripped Matrix (S6)	2 cm Muck (A10) Red Parent Material (TF2)
Histic Epipedon (A2) Black Histic (A3)	_	Suipped Matrix (36) Loamy Mucky Mineral (F1) (except MLRA	
Hydrogen Sulfide (A4)	7	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Prydrogen Sunde (A4) Depleted Below Dark Sun	face (A11)	Depleted Matrix (F3)	one (Explain in tentality)
Thick Dark Surface (A12)		Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1		Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)		Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present): No		
Type:			
Depth (inches):	·		Hydric Soil Present? Yes V No
Remarks:		due to inundation.	
			Anna and a second of the secon
4	rs:		Company of Market Company of the Com
Wetland Hydrology Indicato		check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicato Primary Indicators (minimum o		check all that apply) Water-Stained Leaves (B9) (except	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicato Primary Indicators (minimum o Surface Water (A1)			
Netland Hydrology Indicato Primary Indicators (minimum o Surface Water (A1) High Water Table (A2)		Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
Netland Hydrology Indicato Primary Indicators (minimum o Surface Water (A1) High Water Table (A2)		Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
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Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeri Sparsely Vegetated Conc Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	al Imagery (B7) ave Surface (B8 Yes \(\frac{1}{V} \) Yes \(\frac{V}{V} \) Yes \(\frac{V}{V} \)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRi Other (Explain in Remarks) Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) (C6) FAC-Neutral Test (D5) R A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Vetland Hydrology Present? Yes No
Wetland Hydrology Indicato Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeri Sparsely Vegetated Conce Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	al Imagery (B7) ave Surface (B8 Yes \(\frac{1}{V} \) Yes \(\frac{V}{V} \) Yes \(\frac{V}{V} \)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRi Other (Explain in Remarks) Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) (C6) FAC-Neutral Test (D5) R A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Vetland Hydrology Present? Yes No
Wetland Hydrology Indicato Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeri Sparsely Vegetated Conce Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	al Imagery (B7) ave Surface (B8 Yes \(\frac{1}{V} \) Yes \(\frac{V}{V} \) Yes \(\frac{V}{V} \)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRi Other (Explain in Remarks) Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) (C6) FAC-Neutral Test (D5) R A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Vetland Hydrology Present? Yes No
Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeri Sparsely Vegetated Concessed (B6) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Includes capillary fringe) Describe Recorded Data (stre	al Imagery (B7) ave Surface (B8 Yes \(\frac{1}{V} \) Yes \(\frac{V}{V} \) Yes \(\frac{V}{V} \)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRi Other (Explain in Remarks) Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) (C6) FAC-Neutral Test (D5) R A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Vetland Hydrology Present? Yes No

Project/Site: Sammamish-Juanita Trar	nsmission Line	Project	Ci	ity/County:	Kirkland	Sampling Date: 6/4/2019
Applicant/Owner: Puget Sound Energ	ıy				Sta	tte: WA Sampling Point: SP-9
nvestigator(s): JDB, GM			Se	ection, Towr	nship, Range	e:
_andform (hillslope, terrace, etc.): dep				ocal relief (c	oncave, con	ovex, none): concave Slope (%): 0
Subregion (LRR): A		Lat:			Long:	Datum:
Soil Map Unit Name:						NWI Classification: PFO
Are climatic / hydrologic conditions on	the site typical	for this time	of year	? O Ye:	s 🖲 N	0 (If no, explain in Remarks.)
Are Vegetation 🔲 ,Soil 🔲 ,or Hy	ydrology 🔲	significantl	ly disturt	bed?	Are "N	Normal Circumstances" present? Yes No
Are Vegetation \square , Soil \square , or Hy	ydrology 🔲	naturally p	roblema	itic?	(If nea	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – A	ttach site m	nap show	ing sa	ampling p	oint loca	tions, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	YesYesYes	O No O No O No)		e Sampled <i>I</i> in a Wetland	O
Remarks: WETLAND K-J. Verification of sample VEGETATION – Use scientific			14, vege	tation has c	hanged	
=		Absolute	Dom.	Relative	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft	_)	% Cover		% Cover	Status	Number of Dominant Species
1. Salix lasiandra		40	<u>Y</u>		FACW	That Are OBL, FACW, or FAC: 5 (A)
2. 3.						Total Number of Dominant Species Across All Strata:
4		40	= Total	Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)
Sapling/Shrub Stratum (Plot size: 15 1. Sambucus racemosa	il X ISIL)	25	Υ	100.0	FACU	Prevalence Index worksheet:
2.						Total % Cover of: Multiply by:
3.						OBL species 0 x1 = 0
4.						FACW species 50 x 2 = 100
5						FAC species105 x 3 =315
·		25	= Total	Cover		FACU species 25 x 4 = 100
Herb Stratum (Plot size: 5ft x 5ft)	10	NI.	45 /	ΓΛ C\Λ/	UPL species $0 \times 5 = 0$
 Phalaris arundinacea Equisetum arvense 		<u>10</u> 20		<u>15.4</u> 30.8	FACW FAC	Column Totals:180 (A)515 (B)
Cluisetum arvense Tolmiea menziesii		15	<u>'</u>	23.1	FAC	Prevalence Index = B/A = 2.861
4. Urtica dioica		20	<u>Y</u>	30.8	FAC	Hydrophytic Vegetation Indicators:
5.						☐ 1 - Rapid Test for Hydrophytic Vegetation
6.						✓ 2 - Dominance Test is >50%
7.						3 - Prevalence Index is ≤3.0¹
8						4 - Morphological Adaptations¹ (Provide supporting
9						data in Remarks or on a separate sheet)
10						5 - Wetland Non-Vascular Plants ¹
11						Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 5ft x	(5ft)	65	= Total	Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
 Rubus armeniacus 		50	<u>Y</u>	100.0	FAC	Hydrophytic
		50	= Total	Cover		Vegetation
% Bare Ground in Herb Stratum						Present?
Remarks:						<u> </u>
						1241

SOIL Sampling Point: SP-9

Depth		Matrix	20pti		ox Featu			n the absence of inc			
(inches)	Color (mo		%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	5
0-10	10YR	3/1	95	2.5YR 4/6	5	С		Silt Loam			
>10									Rocks. u	nable to samp	le below 10
									1100110, 0		
						- ——					
						-			-		
·									-		
Type: C_Cer		D_Donle	tion DM-	Poduood Motrix, CS-	Covered	or Coato	d Sand Cr	oing 21 oc	ection: DI —	Doro Lining N	1_Notrix
				Reduced Matrix, CS= RRs, unless other			3 Sand Gr			Pore Lining, Molematic Hydr	
☐ Histosol (A	-			☐ Sandy Redox (S5		····,			Muck (A10)	•	
☐ Histosor (A				☐ Stripped Matrix (arent Mate		
☐ Black Histic				Loamy Mucky Mi) (except I	MLRA 1)			k Surface (TF	12)
_ ☐ Hydrogen :				☐ Loamy Gleyed M			,		(Explain in		,
Depleted B		urface (☐ Depleted Matrix					•	ŕ	
Thick Dark	Surface (A1	2)		☑ Redox Dark Surface	ace (F6)			³ Indicator	s of hydro	phytic vegetati	on and
Sandy Muc				Depleted Dark Si		7)				nust be preser	nt,
☐ Sandy Gley	yed Matrix (S	64)		☐ Redox Depressio	ns (F8)			unless di	sturbed or	problematic.	
Restrictive L	ayer (if pres	sent):									
Type:											
Depth (inc	hes):							Hydric Soil Pro	esent?	Yes	O No
IYDROLO(GΥ										
Wetland Hyd	rology Indic	cators:									
		um of o	ne required	l; check all that appl	y)			Secondar	y Indicator	s (2 or more r	equired)
Surface Wa	• ,			☐ Water-Stain			cept			eaves (B9) (ML	.RA 1, 2,
High Water	` ,				, 2, 4A, a	nd 4B)			A, and 4B)		
☑ Saturation				☐ Salt Crust (E		(D12)			ge Pattern		
☐ Water Marl				Aquatic Inve						er Table (C2) e on Aerial Ima	, aon, (CO)
☐ Sediment [☐ Drift Depose)		☐ Hydrogen Si☐ Oxidized Rh			vina Poots		orphic Posi		igery (C9)
☐ Algal Mat o				Presence of			virig Koots		w Aquitard		
Iron Depos				Recent Iron			Soils (C6)		eutral Test		
Surface So)		☐ Stunted or S						ds (D6) (LRR /	A)
☐ Inundation	Visible on A	erial Im	agery (B7)	Other (Expla	ain in Ren	narks)		☐ Frost-I	Heave Hum	mocks (D7)	
☐ Sparsely Ve	egetated Cor	ncave Su	ırface (B8)								
Field Observ	ations:										
Surface Wate	er Present?	O Yes	N	O Depth (inch	es):						
Water Table I		O Yes	N								
Saturation Pre		Yes	ON				w	etland Hydrology Pı	resent?	Yes	O No
(includes cap											
Describe Rec	orded Data	(stream	gauge, mo	nitoring well, aerial p	hotos, pr	evious ins	pections),	if available:			
Remarks:											
	from 4/17/20)14 had	8 inches of	surface water							
,			. ,								
										124	2

Project/Site: Sammamish-Juanita Transmission Line	Proiect	Ci	itv/County: k	Kirkland	Sampling Date: 6/4/2019
Applicant/Owner: Puget Sound Energy					e: WA Sampling Point: SP-KJ2
Investigator(s): JDB, GM		Se	ection, Town		:
Landform (hillslope, terrace, etc.): flat					vex, none): none Slope (%): 0
					Datum:
Soil Map Unit Name:					NWI Classification: upland
Are climatic / hydrologic conditions on the site typical	for this time	of year	? O Yes		
Are Vegetation □ , Soil □ , or Hydrology □	significantly	•			Normal Circumstances" present? Yes No
Are Vegetation □ , Soil □ , or Hydrology □	naturally pr	•			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site m	• •				
Hydrophytic Vegetation Present? Yes	O No		1		
Hydric Soil Present? O Yes	● No			Sampled A	^ ^
Wetland Hydrology Present? O Yes	No		Within	1 a Wetianu	
Remarks:					
Plot on top of trail, paired with plot SP-9					
VEGETATION – Use scientific names of	plants.				
	Absolute	Dom.	Relative	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover			Status	Number of Dominant Species
1					That Are OBL, FACW, or FAC: 1 (A)
2					Total Number of Dominant
3.					Species Across All Strata: 1 (B)
4		= Total	Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:)		- 1014.	OUVCI		1101.070 (100.070 (100.070
1					Prevalence Index worksheet:
2.					Total % Cover of: Multiply by:
3					OBL species 0 x 1 = 0
4					FACW species 0 x 2 = 0
5		= Total			FAC species 12 x 3 = 36 FACU species 2 x 4 = 8
Herb Stratum (Plot size: 5ft x 5ft)		= 10.0.	Covei		UPL species 0 x 5 = 0
1. Equisetum arvense	10	Υ	62.5	FAC	Column Totals: 14 (A) 44 (B)
2. Galium aparine	2	N	12.5	FACU	Provolence Index – P/A – 2 142
	2	N	12.5	FAC	Prevalence Index = B/A = 3.143
4. Polygonum sp.		N	12.5	#N/A	Hydrophytic Vegetation Indicators:
5.					1 - Rapid Test for Hydrophytic Vegetation
6					
7 8					4 - Morphological Adaptations¹ (Provide supporting
9.					data in Remarks or on a separate sheet)
10.					☐ 5 - Wetland Non-Vascular Plants¹
11.					☐ Problematic Hydrophytic Vegetation¹ (Explain)
_	16	= Total	Cover		¹ Indicators of hydric soil and wetland hydrology must be
Woody Vine Stratum (Plot size:)					present, unless disturbed or problematic.
1					H-d-pub, dia
2		= Total	Cover		Hydrophytic Vegetation
% Bare Ground in Herb Stratum 80		- 10	0070.		Present? • Yes • No
Remarks:					
Railroad embankment shoulder, mostly bare ground	Ł				
					1243

SOIL Sampling Point: SP-KJ2

Profile Des	cription: (De	scribe to	the depth	n needed to	documo	ent the in	ndicator o	r confirr	n the absence of in	dicators.)		
Depth		Matrix				ox Featur						
(inches)	Color (m	ioist)	%	Color (m	noist)	<u>%</u>	Type ¹	Loc ²	Texture		Remarks	<u> </u>
0-10	10YR	3/2	5						Gravelly loam	95% rock	fragments	
10-12	10YR	3/3	80	2.5YR	4/6	5	<u>C</u>	M	Gravelly loam	15% rock	fragments	
>12										Shovel re	fusal, dense r	ock/fill
	concentration, Indicators:							Sand G			Pore Lining, M lematic Hydr	
Histosol		(друпоак		Sandy R			u.,			Muck (A10)	icinatio riyai	ic cons .
Histosof				☐ Stripped						arent Materi	al (TF2)	
☐ Black His	-			Loamy N			(except M	/ILRA 1)			Surface (TF	12)
	n Sulfide (A4)			Loamy C	Sleyed Ma	atrix (F2)			□ Other	(Explain in I	Remarks)	
	Below Dark S		411)	Depleted								
	irk Surface (A'			Redox D			, \				hytic vegetati	
	lucky Mineral (leyed Matrix (☐ Depleted ☐ Redox D)			nydrology m isturbed or p	ust be preser	nt,
_	Layer (if pre				ор. осо.о.	(. 0)			1	.o.a		
	Layor (ii pro	conty.										
Type: Depth (ir	nches).								Hydric Soil Pr	esent?	O Yes	No
Remarks:									Tiyano Jon	Cocin:	_	_
	oil indicators											
·												
HYDROLO	OGY											
Wetland Hy	ydrology Indi	icators:										
	licators (minim	num of or	ne required								(2 or more r	
Surface V	, ,			☐ Wat			(B9) (exc	ept			ives (B9) (ML	RA 1, 2,
Saturatio	ter Table (A2) on (A3)	,		□ Salt	, wilka t Crust (B	2, 4A, ar	iu 46)			A, and 4B) age Patterns	(B10)	
☐ Water Ma					•	rtebrates	(B13)			eason Water		
	t Deposits (B2	2)				ılfide Odo					on Aerial Ima	gery (C9)
☐ Drift Dep				Oxid	dized Rhiz	zospheres	s along Liv	ing Roots	s (C3) Geom	orphic Positi	on (D2)	
	t or Crust (B4))				Reduced				w Aquitard (
Iron Dep		<i>(</i>)					n in Tilled			leutral Test		
	Soil Cracks (Bé on Visible on <i>F</i>	-	ageny (R7)			tressea Pi in in Rem	lants (D1)	(LRR A)		a Ant Mound Heave Humr	s (D6) (LRR A	4)
	Vegetated Co				еі (Ехріа	III III Keiii	iai KS)		<u> </u>	rieave riuirii	HOCKS (D1)	
Field Obse												
	ater Present?	O Yes	⊙ N	n Der	oth (inche	oe).						
Water Table		O Yes	_					— I				
Saturation F		O Yes			oth (inche				etland Hydrology P	resent?	O Yes	No
	apillary fringe)				(oo							•
Describe Re	ecorded Data	(stream (gauge, mo	nitoring well	, aerial pl	hotos, pre	evious insp	pections)	, if available:			
Remarks:												
	e of wetland h	nydrology										
											124	4

vestigator(s): 61-0 mois Linke His	224	Section, Township	State: WA Sampling Point: 5PKK1
andform (hillslope terrace etc.): 54 - 254 (a. 1. D.)	tch	Local relief (conca	ave, convex, none): CONCAVE Slope (%):
			Long: Datum:
il Map Unit Name:	ery and a second test to a con-	and the second of the second	NWI classification:
e climatic / hydrologic conditions on the site typical f	a janan arabat	and the second second	and the state of the company of the company of the control of the
e Vegetation, Soil, or Hydrology		100 (20)	Are "Normal Circumstances" present? Yes X No
e Vegetation, Soil, or Hydrology	naturally pro	blematic? P	(If needed, explain any answers in Remarks.)
JMMARY OF FINDINGS – Attach site n	nap showing	sampling poi	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No	1	
lydric Soil Present?	No		pled Area
	No		etland? Yes No
emarks: photos on 61m's ph	me /	Garba	wto well K-1e
	•	s de la companya de l	and a simple with the state of
oten lake area	· · · · · · · · · · · · · · · · · · ·	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	trainer of the contract of the contract of
GETATION – Use scientific names of p	plants.		
ree Stratum (Plot size:)	Absolute % Caver	Dominant Indica	tor Dominance Test worksheet:
ee Stratum (Piot size.	76 Cover	Species? Statu	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
· <u></u>	er e		Total Number of Dominant
		- <u> </u>	Species Across All Strata: ' (B)
	<u>Prophysika (1996) dan</u>	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
apling/Shrub Stratum (Plot size:)		•	Prevalence Index worksheet:
		Agree	Total % Cover of: Multiply by:
			OBL species x 1 =
<u> 1900 lingua - Santago antaro e establica antaro e e establica de la composició de la comp</u>			FACW species x2=
	m,	The state of the s	FAC species x 3 =
	21-1247,005	_ T-1-1-0	FACU species x 4 =
erb Stratum (Plot size:)		= Total Cover	UPL species x 5 =
Smartweed	95	D OB-	Column Totals: (A) (B)
Duckweil	10	ଓ ଓ ଓ	Prevalence Index = B/A =
	<u> </u>	gage color and a second color	Hydrophytic Vegetation Indicators:
	A DAY OF A MEN DAYS AND		1 - Rapid Test for Hydrophytic Vegetation
	- (1 - Mar. 1)	<u>. 1 </u>	2 - Dominance Test is >50%
	<u> </u>	<u> Serrendê ki ji ji ji di karê</u>	3 - Prevalence Index is ≤3.0¹
Attingenment of the st			4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
		- :	5 - Wetland Non-Vascular Plants ¹
). 			Problematic Hydrophytic Vegetation¹ (Explain)
· 			¹Indicators of hydric soil and wetland hydrology must
7./	108	= Total Cover	be present, unless disturbed or problematic.
oody Vine Stratum (Plot size:)			
grander in the second s			Hydrophytic
<u></u>			Vegetation Yes No
\sim		= Total Cover	
Bare Ground in Herb Stratum			

Depth Matrix (inches) Color (moist) O - 10 10 YR 3/1 J - 17 61 3N		Redox	Features		nfirm the abse	
	%(Color (moist)		/pe¹ Lo	c ² Textur	1: 200
,-12 61 3N	39 10	124/10	2 (_ M	sandy d	ley roots 802 60
	70				۱ ر	Dossibly fill material win
						ill angular rock - 30%
						J
						& Some roots
				······		

						,
ype: C=Concentration, D=De	epletion, RM=Rec	duced Matrix. CS=	Covered or	Coated Sar	nd Grains.	² Location: PL=Pore Lining, M=Matrix.
ydric Soil Indicators: (Appl						icators for Problematic Hydric Soils ³ :
Histosol (A1)		Sandy Redox (St	5)			2 cm Muck (A10)
Histic Epipedon (A2)		Stripped Matrix (S				Red Parent Material (TF2)
Black Histic (A3)		Loamy Mucky Mi	neral (F1) (e	xcept MLR		Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)		Loamy Gleyed M				Other (Explain in Remarks)
Depleted Below Dark Surfa	ace (A11)	Depleted Matrix (•		3	Cartana at handa ahada ara sa tatan ara d
Thick Dark Surface (A12)	-	Redox Dark Surfa				icators of hydrophytic vegetation and wetland hydrology must be present,
Sandy Mucky Mineral (S1)Sandy Gleyed Matrix (S4)		Depleted Dark St Redox Depression				vetiand nydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix (34) lestrictive Layer (if present):		Todox Depressio	113 (1 0)			and a distance of production.
Type:	.,_					. .
Depth (inches):	1.1.	•			Hydric	Soil Present? Yes No
PROLOGY Vetland Hydrology Indicators	s:					
rimary Indicators (minimum of	one required; ch	eck all that apply)				Secondary Indicators (2 or more required)
🔀 Surface Water (A1)		Water-Stain	ed Leaves (I	39) (excep	t	Water-Stained Leaves (B9) (MLRA 1, 2,
★ High Water Table (A2)		MLRA 1,	2, 4A, and	4B)		4A, and 4B)
★ Saturation (A3)		Salt Crust (E			_	Drainage Patterns (B10)
Water Marks (B1)		Aquatic Inve		•	-	Dry-Season Water Table (C2)
Sediment Deposits (B2)		Hydrogen S				Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)			•	_	g Roots (C3) _	Geomorphic Position (D2)
		Presence of				Shallow Aquitard (D3)
Algal Mat or Crust (B4)		Recent Iron				FAC-Neutral Test (D5)
Iron Deposits (B5)		Stunted or S			KK A) _	Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Iron Deposits (B5) Surface Soil Cracks (B6)		Other (Expl	am m Remar	N3)	-	1 Tost-fleave Humimocks (D1)
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria						
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca						
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca	ave Surface (B8)	Donth (inch	nes): (a)			
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present?	Yes No _	Depth (inch	nes): <u> </u>			
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Vater Table Present?	Yes No No No	Depth (inch	nes): <u> </u>			
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria	Yes No Yes No No Yes No No	Depth (inch	nes):		•	ology Present? Yes No
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (streat	Yes No Yes No No Yes No No	Depth (inch	nes):		•	
Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Sparsely Vegetated Conca Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No Yes No No Yes No No	Depth (inch	nes):		•	

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	***			J	A NO. MICH.
● WETLAND DETE	RMINATION D	ATA FORM -	Western Mou	ntains, Valleys, and	l Coast Region
plect/Site: If Fixlum	lal ron	/	, . V	<u>Y </u>	4/1/70
oplicant/Owner:		SACTOR CITY	County:	State:	
vestigator(s); TWA MICA	BLF/LW DA	HOWA(L)	tion, Township, Ra	nge;	
andform (hillslope, terrace, etc.):	1/1/5/0W	-(C/C) 94 Coo	cal relief (concave,	convex, none):	Slope (%):
ubregion (LRR):		Lat:		_ Long:	Datum;
oll Map Unit Name:				NWI classific	
re climatic / hydrologic conditions on t		E 1849 - WAS			1.7
re Vegetation, Soil, or					
e Vegetation, Soil, or					
UMMARY OF FINDINGS – A	Attach site map	showing sa	mpling point l	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present?		10 <u></u>	is the Sampled	Area	
Wetland Hydrology Present?	y	40 <u>×</u>	within a Wetlan	nd? Yes	No <u>/</u>
Remarks: York-hydalk	J G0(15)	Sauche	Put Vocates	1 Olone Born	Aralenad
(O Cenio a	to No due		a anscellance	THE RESERVE	
EGETATION – Use scientific			1.7.7.2		
EGETATION – Use scientific	c names or plan		minant Indicator	Dominance Test work	
Tree Stratum (Plot size:			ecies? Status	Number of Dominant S	
i. <u>Populas Balsamite</u>	ra (norday] <u>5%]</u>	<u>v fac</u>	That Are OBL, FACW,	
				Total Number of Domin	and the control of th
		<u> </u>		Species Across All Stra	ia:(B)
					ecies la 7a
		=7	otal Cover	Percent of Dominant Sp That Are OBL, FACW, of	
A STATE OF THE STA		=T	otal Cover		or FAC: (A/B)
The state of the s)	=1 		That Are OBL, FACW, of Prevalence Index work Total % Cover of:	or FAC: (A/B) ksheet: Multiply by:
A STATE OF THE STA		=1 		That Are OBL, FACW, of Prevalence Index work Total % Cover of: OBL species	or FAC: (A/B) sheet: Multiply by: x1 =
Sapling/Shrub Stratum (Plot size:		=1 		That Are OBL, FACW, of Prevalence Index work Total % Cover of: OBL species FACW species	or FAC: (A/B) ssheet: Multiply by:
I: Golds Bross : :		40%	<u>4 - Au</u>	That Are OBL, FACW, of Prevalence Index work Total % Cover of: OBL species FACW species FAC species FAC species	or FAC: (A/B) sheet: Multiply by:
- Glover Breen - - 		40%		That Are OBL, FACW, of Prevalence Index work Total % Cover of: OBL species FACW species FAC species FAC species	or FAC: (A/B) ssheet: Multiply by:
- Grown Brown		40%	<u>4 - Au</u>	That Are OBL, FACW, of Prevalence Index work Total % Cover of: OBL species FACW species FAC species FACU species UPL species	xsheet:
I. Godon Brown I. S. Stratum (Plot size: I. Joshon Juston I. Joshon Juston I. Joshon Juston I. Joshon Juston		40% = 1 20% 10%	Y FAC	That Are OBL, FACW, of Prevalence Index work Total % Cover of: OBL species FACW species FAC species FACU species UPL species Column Totals:	xsheet: Multiply by: x1 = x2 = x3 = x4 = x5 =
Herb Stratum (Plot size: 1. Fostera substrace: 1. Holius lanatus 2. Holius lanatus		40% 	Total Cover FAC FAC FACE	That Are OBL, FACW, of Prevalence Index work Total % Cover of: OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence Index Hydrophytic Vegetation	r FAC: (A/B) csheet: X1 =
Herb Stratum (Plot size: - Fosture JUB ra Holicus Lanatus 3. Trifolum sp.		40% = 1 20% 10%	Total Cover FAC FAC FAC FAC FAC FAC FAC	That Are OBL, FACW, of Prevalence Index work Total % Cover of: OBL species FACW species FACU species FACU species UPL species Column Totals: Prevalence Index Hydrophytic Vegetatio 1 - Rapid Test for in	Multiply by:
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Herb Stratum (Plot size: - Foster JUB 19 - Holing language - Tricolum sp.		40% 	Total Cover FAC FAC FAC TAC TAC TAC TAC TAC	That Are OBL, FACW, of Prevalence Index worl Total % Cover of: OBL species FACW species FACU species UPL species Column Totals: Prevalence Index Hydrophytic Vegetation 1 - Rapid Test for House 1 - 2 - Dominance Test 3 - Prevalence Index 4 - Morphological Addata in Remarks	or FAC:
Herb Stratum (Plot size: Postere Jus ra Holius lanatus Tricolum sp.		40% 30% 10% 10% 10% 10%	Total Cover FAC FAC FAC TAC TAC TAC TAC TAC	That Are OBL, FACW, of Prevalence Index worl Total % Cover of: OBL species FACW species FACU species UPL species Column Totals: Prevalence Index Hydrophytic Vegetation 1 - Rapid Test for Home and the second of	or FAC:
Herb Stratum (Plot size: 1. Costace Substance: 1. Costace Substance: 1. Costace Substance: 2. Holius la natus 3. Costace Substance: 4. Holius la natus 5. Costace Substance: 1. Local Substanc		40% 	Total Cover FAC FAC FAC TAC TAC TAC TAC TAC	That Are OBL, FACW, of Prevalence Index work Total % Cover of: OBL species FACW species FACU species UPL species Column Totals: Prevalence Index Hydrophytic Vegetation 1 - Rapid Test for Italy and the control of the	or FAC:
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Herb Stratum (Plot size: - Posteria stylis ra Indulan sp. - Visaa 0. 0. 1. ** Prosumed Indus Moody Vine Stratum (Plot size: - Visaa Posteria Posteria Posteria (Plot size: - Visaa Posteria Posteri		40% 	Total Cover FAC FAC FAC TOTAL	That Are OBL, FACW, of Prevalence Index work Total % Cover of: OBL species FACW species FACU species UPL species Column Totals: Prevalence Index Hydrophytic Vegetation 1 - Rapid Test for House 1 -	or FAC:
terb Stratum (Plot size: - Fosteric SUB ra - Holing landers - Tricolum sp. - Vicaa 0. 1. - K prosumed Indus Voody Vine Stratum (Plot size:		40% 30% 10% 10% 15% 15% 20%	otal Cover AC AC AC AC AC AC AC AC AC A	That Are OBL, FACW, of Prevalence Index worl Total % Cover of: OBL species FACW species FACU species UPL species Column Totals: Prevalence Index Hydrophytic Vegetatio 1 - Rapid Test for I- 2 - Dominance Tes 3 - Prevalence Index 4 - Morphological A data in Remarks 5 - Wetland Non-Va Problematic Hydrop Indicators of hydric soil be present, unless distu	or FAC:(A/B) Isheet:

pse fail coundre

Totle Describtion: IDescribe to the deb	th needed to document the Indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
nches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
7-18" 7,54 (3/3,100)	10	Sands aravely lown
And the state of t		
		——————————————————————————————————————
<u></u>	and the second s	Rocker [-3" angular/some
		no redox
	ASSET OF THE PROPERTY OF	
والمتناوية والمتواجيين بمسار المستسم		
A STATE OF THE STA		
/pe: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sand Gra	sins. ² Location: PL=Pore Lining, M=Matrix.
dric Soil Indicators: (Applicable to all		Indicators for Problematic Hydric Solis ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shellow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F8)	and cators of hydrochytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
strictive Layer (if present):		
Type:		
Depth (inches):		Hydric Soll Present? Yes No
marks:	do not meet hydric	
	,	
DROLOGY		
etland Hydrology Indicators:	: check all that apply)	Secondary Indicators (2 or more regulary)
etland Hydrology Indicators: imery Indicators (minimum of one required		Secondary Indicators (2 or more required)
etland Hydrology Indicators: imary Indicators (minimum of one required _ Surface Water (A1)	Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
etland Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
otland Hydrology Indicators: mery Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
stland Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
otland Hydrology Indicators: mery Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
stland Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
itland Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) s (C3) Geomorphic Position (D2)
etland Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
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etland Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain In Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) — Drainage Patterns (B10) — Dry-Season Water Table (C2) — Saturation Visible on Aerial Imagery (C9) s (C3) — Geomorphic Position (D2) — Shallow Aquitard (D3) — FAC-Neutral Test (D5)
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etland Hydrology Indicators: mary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B1 Observations: rface Water Present? Vesf ster Table Present? Yesf turation Present?	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain In Remarks) Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) s (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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Project/Site: Sammamish-Juanita Transmission Line	Project	City	v/County: k	Kirkland	Sampling Date: 6/4/2019
Applicant/Owner: Puget Sound Energy			, _		e: WA Sampling Point: SP-KK1
Investigator(s): JDB, GM		Ser	ction, Town		:
Landform (hillslope, terrace, etc.): ditch					vex, none): concave Slope (%): 0
· · · · · · · · · · · · · · · · · · ·					Datum:
Soil Map Unit Name:					NWI Classification: PEM
Are climatic / hydrologic conditions on the site typical	for this time o	of year?	O Yes		
Are Vegetation , Soil , or Hydrology	significantly				Iormal Circumstances" present? Yes No
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐	naturally pro	blemati	c?	(If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site m	nap showir	ng sar	npling p	oint locat	tions, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	O No				
Hydric Soil Present? Yes	O No			Sampled A	^ ^
Wetland Hydrology Present? Yes	O No		WILIII	i a vvetianu	ir Gres Grio
Remarks:	40/04/004				
WETLAND K-K. Verification of sampling point taken	i on 10/24/201	. /			
VEGETATION – Use scientific names of	plants.				
	Absolute [Dom.	Relative	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Sp.?	% Cover	Status	Number of Dominant Species
1					That Are OBL, FACW, or FAC: 2 (A)
2.					Total Number of Dominant
3					Species Across All Strata: 2 (B)
T		: Total C	Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15ft x 15ft)					('
1					Prevalence Index worksheet:
2					Total % Cover of: Multiply by:
3					OBL species 20 x 1 = 20
4					FACW species 80 x 2 = 160 FAC species 0 x 3 = 0
5		: Total C			FAC species $0 \times 3 = 0$ FACU species $0 \times 4 = 0$
Herb Stratum (Plot size: 5ft x 5ft)			, , , ,		UPL species 0 x 5 = 0
1. Polygonum sp.	80	Υ	80.0	FACW	Column Totals: 100 (A) 180 (B)
2. Lemma minor	20	Υ	20.0	OBL	Prevalence Index = B/A = 1.800
3					
4					Hydrophytic Vegetation Indicators:
5 6.					☐ 1 - Rapid Test for Hydrophytic Vegetation☑ 2 - Dominance Test is >50%
7.					✓ 3 - Prevalence Index is ≤3.0¹
8.					4 - Morphological Adaptations¹ (Provide supporting
9.					data in Remarks or on a separate sheet)
10					☐ 5 - Wetland Non-Vascular Plants¹
11					☐ Problematic Hydrophytic Vegetation¹ (Explain)
	100 =	: Total C	Cover		¹ Indicators of hydric soil and wetland hydrology must be
Woody Vine Stratum (Plot size: 5ft x 5ft)					present, unless disturbed or problematic.
1. 2.					Hydrophytic
		: Total C	Cover		Vegetation
% Bare Ground in Herb Stratum					Present? • Yes • No
Remarks:					
					1249

SOIL Sampling Point: SP-KK1

i rome bescription: (i	Describe to t	ne depui n	eeaea to aocume	ent the ir	idicator o	r contirn	n the absence of inc	ilcators.)
Depth	Matrix			x Featur				
(inches) Color	(moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
<u>0-6</u> <u>10YR</u>	2/1	38	10YR 4/6	2	<u>C</u>	М	Sandy Clay Loam	60% roots, organic
<u>6-12</u> N	3/0	70					Sandy Clay Loam	Gley 1 3/N, 30% rock fragments
>12								Unable to sample below 12
						_		
¹Type: C=Concentratio	n. D=Depletic	on. RM=Red	uced Matrix. CS=	Covered	or Coated	Sand Gr	ains. ² Loc	ation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators								s for Problematic Hydric Soils ³ :
☐ Histosol (A1)			Sandy Redox (S5))			☐ 2 cm N	Muck (A10)
Histic Epipedon (A2))		Stripped Matrix (S					rent Material (TF2)
☐ Black Histic (A3)			Loamy Mucky Min		(except N	ILRA 1)	-	hallow Dark Surface (TF12)
☐ Hydrogen Sulfide (A☐ Depleted Below Dar			Loamy Gleyed Ma Depleted Matrix (☐ Other	(Explain in Remarks)
Thick Dark Surface		•	Redox Dark Surfa				3Indicator	s of hydrophytic vegetation and
Sandy Mucky Minera	• •		Depleted Dark Su)			ydrology must be present,
☐ Sandy Gleyed Matrix	(S4)		Redox Depression	ıs (F8)			unless di	sturbed or problematic.
Restrictive Layer (if p	resent):							
Туре:			<u></u>					
Depth (inches):							Hydric Soil Pro	esent? • Yes O No
Remarks:							•	
Does not meet F2 beca	ause value is	less than 4						
HADBOLOCA								
HYDROLOGY	dicators							
Wetland Hydrology In		required, of	pools all that apply	<u> </u>			Cocondon	u Indicators (2 or more required)
Wetland Hydrology In Primary Indicators (mir		required; cl			(B9) (exc	ept		y Indicators (2 or more required) Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology In Primary Indicators (mir ✓ Surface Water (A1)	nimum of one	required; cl	neck all that apply Water-Staine MLRA 1,	d Leaves		ept	☐ Water-	y Indicators (2 or more required) Stained Leaves (B9) (MLRA 1, 2, ., and 4B)
Wetland Hydrology In Primary Indicators (mir	nimum of one	required; cl	☐ Water-Staine MLRA 1, ☐ Salt Crust (B	d Leaves 2, 4A, ar 11)	nd 4B)	ept	☐ Water- 4A ☐ Draina	Stained Leaves (B9) (MLRA 1, 2, ., and 4B) ge Patterns (B10)
Wetland Hydrology In Primary Indicators (mir ✓ Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) ☐ Water Marks (B1)	nimum of one	required; cl	Water-Staine MLRA 1, Salt Crust (B' Aquatic Inver	d Leaves 2, 4A, ar 11) tebrates	nd 4B) (B13)	ept	☐ Water- 4A ☐ Draina ☐ Dry-Se	Stained Leaves (B9) (MLRA 1, 2, ., and 4B) ge Patterns (B10) ason Water Table (C2)
Wetland Hydrology In Primary Indicators (mir ✓ Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (nimum of one	required; cl	☐ Water-Staine MLRA 1, ☐ Salt Crust (B: ☐ Aquatic Inver ☐ Hydrogen Su	d Leaves 2, 4A, ar 11) rtebrates Ifide Odo	(B13) or (C1)		☐ Water- 4A ☐ Draina ☐ Dry-Se ☐ Satura	Stained Leaves (B9) (MLRA 1, 2, ,, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9)
Wetland Hydrology In Primary Indicators (mir ✓ Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B3)	nimum of one .2) B2)	required; cl	Water-Staine MLRA 1, Salt Crust (B¹ Aquatic Inver Hydrogen Su Oxidized Rhiz	d Leaves 2, 4A, ar 11) rtebrates Ifide Odo cospheres	nd 4B) (B13) or (C1) s along Liv		☐ Water- 4A ☐ Draina ☐ Dry-Se ☐ Satura 5 (C3) ☐ Geomo	Stained Leaves (B9) (MLRA 1, 2, ,, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2)
Wetland Hydrology In Primary Indicators (mir ✓ Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B3) ☐ Algal Mat or Crust (B	nimum of one .2) B2)	required; cl	Water-Staine MLRA 1, Salt Crust (B¹ Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F	d Leaves 2, 4A, ar 11) rtebrates Ifide Odo cospheres Reduced	nd 4B) (B13) or (C1) s along Liv Iron (C4)	ing Roots	Water- 4A ☐ Draina ☐ Dry-Se ☐ Satura G (C3) ☐ Geomo ☐ Shallov	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3)
Wetland Hydrology In Primary Indicators (mir ✓ Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B3)	nimum of one (2) (B2) (34)	required; cl	Water-Staine MLRA 1, Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St	d Leaves 2, 4A, ar 11) rtebrates Ifide Odo cospheres Reduced Reductior tressed P	(B13) (C1) s along Liv Iron (C4) n in Tilled lants (D1)	ing Roots Soils (C6)	Water-4A □ Draina □ Dry-Se □ Satura s (C3) □ Geomo □ Shallov ☑ FAC-No	Stained Leaves (B9) (MLRA 1, 2, ,, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2)
Wetland Hydrology In Primary Indicators (mir ✓ Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B3) ☐ Algal Mat or Crust (B ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (C) ☐ Inundation Visible on	nimum of one (2) (B2) (34) (B6) (n Aerial Imag	ery (B7)	Water-Staine MLRA 1, Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F	d Leaves 2, 4A, ar 11) rtebrates Ifide Odo cospheres Reduced Reductior tressed P	(B13) (C1) s along Liv Iron (C4) n in Tilled lants (D1)	ing Roots Soils (C6)	Water-4A □ Draina □ Dry-Se □ Satura s (C3) □ Geomo □ Shallov □ FAC-No	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5)
Wetland Hydrology In Primary Indicators (mir ✓ Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B3) ☐ Algal Mat or Crust (B ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (C) ☐ Inundation Visible of ☐ Sparsely Vegetated	nimum of one (2) (B2) (34) (B6) (n Aerial Imag	ery (B7)	Water-Staine MLRA 1, Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St	d Leaves 2, 4A, ar 11) rtebrates Ifide Odo cospheres Reduced Reductior tressed P	(B13) (C1) s along Liv Iron (C4) n in Tilled lants (D1)	ing Roots Soils (C6)	Water-4A □ Draina □ Dry-Se □ Satura s (C3) □ Geomo □ Shallov □ FAC-No	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
Wetland Hydrology In Primary Indicators (mir ✓ Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B3) ☐ Algal Mat or Crust (B ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (C) ☐ Inundation Visible on	nimum of one (2) (B2) (34) (B6) (n Aerial Imag Concave Surfa	ery (B7) ace (B8)	Water-Staine MLRA 1, Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St	d Leaves 2, 4A, ar 11) rtebrates Ifide Odo cospheres Reduced Reductior tressed P	(B13) (C1) s along Liv Iron (C4) n in Tilled lants (D1)	ing Roots Soils (C6)	Water-4A □ Draina □ Dry-Se □ Satura s (C3) □ Geomo □ Shallov □ FAC-No	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
Wetland Hydrology In Primary Indicators (mir ✓ Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B3) ☐ Algal Mat or Crust (B ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (C) ☐ Inundation Visible of ☐ Sparsely Vegetated (C) Field Observations: Surface Water Present	nimum of one 12) B2) 34) (B6) In Aerial Imag Concave Surfa	ery (B7) ace (B8)	Water-Staine MLRA 1, Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explain	d Leaves 2, 4A, ar 11) rtebrates Ifide Odo cospheres Reduced Reductior tressed P in in Rem	(B13) or (C1) s along Liv Iron (C4) or in Tilled lants (D1) narks)	ing Roots Soils (C6)	Water-4A □ Draina □ Dry-Se □ Satura s (C3) □ Geomo □ Shallov □ FAC-No	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
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Wetland Hydrology In Primary Indicators (mir ✓ Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B3) ☐ Algal Mat or Crust (B) ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (C) ☐ Inundation Visible of ☐ Sparsely Vegetated (C) Field Observations: Surface Water Present Water Table Present? Saturation Present?	nimum of one 12) B2) B4) (B6) In Aerial Imag Concave Surfa Yes Yes Yes Yes Yes	ery (B7) ace (B8) O No O No O No	Water-Staine MLRA 1, Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explai	d Leaves 2, 4A, ar 11) rtebrates Iffide Odo cospheres Reduced Reductior cressed P in in Rem s): s): s):	(B13) (B13) (C1) s along Liv Iron (C4) n in Tilled Ilants (D1) narks) 0.5 0	ing Roots Soils (C6) (LRR A)	Water-4A □ Draina □ Dry-Se □ Satura S (C3) □ Geomo □ Shallov □ FAC-No □ Raised □ Frost-H	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) deave Hummocks (D7)
Wetland Hydrology In Primary Indicators (mir ✓ Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B3) ☐ Algal Mat or Crust (B3) ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (C3) ☐ Inundation Visible of ☐ Sparsely Vegetated (C4) Field Observations: Surface Water Present (C5) ☐ Water Table Present? Saturation Present? (includes capillary fring) Describe Recorded Date	nimum of one 12) B2) B4) (B6) In Aerial Imag Concave Surfa Yes Yes Yes Yes Yes	ery (B7) ace (B8) O No O No O No	Water-Staine MLRA 1, Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explai	d Leaves 2, 4A, ar 11) rtebrates Iffide Odo cospheres Reduced Reductior cressed P in in Rem s): s): s):	(B13) (B13) (C1) s along Liv Iron (C4) n in Tilled Ilants (D1) narks) 0.5 0	ing Roots Soils (C6) (LRR A)	Water-4A □ Draina □ Dry-Se □ Satura S (C3) □ Geomo □ Shallov □ FAC-No □ Raised □ Frost-H	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) deave Hummocks (D7)
Wetland Hydrology In Primary Indicators (mir ✓ Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B3) ☐ Algal Mat or Crust (B) ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (C) ☐ Inundation Visible of ☐ Sparsely Vegetated (C) Field Observations: Surface Water Present (C) Water Table Present? Saturation Present? (includes capillary fring)	nimum of one 12) B2) B2) (B6) In Aerial Imag Concave Surfa Yes Yes Yes Yes Yes ta (stream ga	ery (B7) ace (B8) O No O No O No auge, monito	Water-Staine MLRA 1, Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explai	d Leaves 2, 4A, ar 11) rtebrates Iffide Odo cospheres Reduced Reductior cressed P in in Rem s): s): s):	(B13) (B13) (C1) s along Liv Iron (C4) n in Tilled Ilants (D1) narks) 0.5 0	ing Roots Soils (C6) (LRR A)	Water-4A □ Draina □ Dry-Se □ Satura S (C3) □ Geomo □ Shallov □ FAC-No □ Raised □ Frost-H	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) deave Hummocks (D7)
Wetland Hydrology In Primary Indicators (mir ✓ Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B3) ☐ Algal Mat or Crust (B ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (C) ☐ Inundation Visible of ☐ Sparsely Vegetated (C) ☐ Field Observations: Surface Water Present (C) Saturation Present? Saturation Present? (includes capillary fring) Describe Recorded Date Remarks:	nimum of one 12) B2) B2) (B6) In Aerial Imag Concave Surfa Yes Yes Yes Yes Yes ta (stream ga	ery (B7) ace (B8) O No O No O No auge, monito	Water-Staine MLRA 1, Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explai	d Leaves 2, 4A, ar 11) rtebrates Iffide Odo cospheres Reduced Reductior cressed P in in Rem s): s): s):	(B13) (B13) (C1) s along Liv Iron (C4) n in Tilled Ilants (D1) narks) 0.5 0	ing Roots Soils (C6) (LRR A)	Water-4A □ Draina □ Dry-Se □ Satura S (C3) □ Geomo □ Shallov □ FAC-No □ Raised □ Frost-H	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) deave Hummocks (D7)

Project/Site: Sammamish-Juanita Transmission Line	Project	Ci	ity/County: _l	Kirkland	Sampling Date: 6/4/2019
Applicant/Owner: Puget Sound Energy				Stat	te: WA Sampling Point: SP-KK2
Investigator(s): JDB, GM		Se	ection, Town	ıship, Range	e:
Landform (hillslope, terrace, etc.): terrace		Lo	ocal relief (co	oncave, con	vex, none): none Slope (%): 0
Subregion (LRR): A	Lat:			Long: _	Datum:
Soil Map Unit Name:					NWI Classification: upland
Are climatic / hydrologic conditions on the site typical	for this time	of year	? O Yes	_	(,,
Are Vegetation , Soil , or Hydrology	significantl	•		Are "N	Normal Circumstances" present?
Are Vegetation , Soil , or Hydrology	naturally p				eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site n	nap show	ing sa	mpling p	oint locat	tions, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Yes Yes	O No No No)		e Sampled <i>A</i> n a Wetland	^ ^
Remarks:					
On terrace below trail, paired with plot SP-KK1					
VEGETATION – Use scientific names of	plants.				
	Absolute	Dom.	Relative	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1)	% Cover	Sp.?	% Cover	Status	Number of Dominant Species That Are OBL, FACW, or FAC:4(A)
2. 3.					Total Number of Dominant Species Across All Strata: 4 (B)
4.		= Total	Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15ft x 15ft) 1. Alnus rubra	15	v	100.0	FAC	Prevalence Index worksheet:
1. Ainus rubra 2.			100.0		Total % Cover of: Multiply by:
3.					OBL species 0 x 1 = 0
4.					FACW species 2 x 2 = 4
5					FAC species 80 x 3 = 240
(District files	15	= Total	Cover		FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5ft x 5ft) 1. Equisetum arvense	5	Υ	71.4	FAC	UPL species 0 x 5 = 0 Column Totals: 82 (A) 244 (B)
Lyuisetuiri arvense Phalaris arundinacea	2	<u> </u>	28.6	FACW	
3.					Prevalence Index = B/A = 2.976
4.					Hydrophytic Vegetation Indicators:
5					1 - Rapid Test for Hydrophytic Vegetation
6					2 - Dominance Test is >50%
7					3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting)
9					data in Remarks or on a separate sheet)
10.					5 - Wetland Non-Vascular Plants ¹
11.					Problematic Hydrophytic Vegetation¹ (Explain)
	7	= Total	Cover		¹Indicators of hydric soil and wetland hydrology must be
Woody Vine Stratum (Plot size: 15ft x 15ft)					present, unless disturbed or problematic.
1. Rubus armeniacus	60	<u>Y</u>	100.0	FAC	
2	60	= Total	Cover		Hydrophytic Vegetation
% Bare Ground in Herb Stratum 80		_ Total	OOVCI		Present? • Yes • No
Remarks:					
Railroad embankment shoulder, mostly bare ground	Ł				
					1251

SOIL Sampling Point: SP-KK2

		o the dept				or confirm	n the absence of ind	licators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Featur %	es Type¹	Loc ²	Texture		Remarks	
0-1	Ooioi (IIIoist)	/0	Color (Indist)	/0	i ype		I GALUI G	1" rock	rveillaiks	•
							One walls Oils I are se	_	f	
1-18	10YR 3/2	75					Gravelly Silt Loam	25% rock	tragments	
				-						
								1		
1T: max 0. Ca	D. Danie		Dadwaad Matrix CC		0		21.0	ation: DL D	Nama Limina a M	l Matrix
	ncentration, D=Deple Indicators: (Applica					Sand Gr			Pore Lining, M lematic Hydr	
☐ Histosol (/			☐ Sandy Redox (S5		,			/luck (A10)		
☐ Histosor (/	•		☐ Stripped Matrix (rent Materi	al (TF2)	
☐ Black Hist			☐ Loamy Mucky Mi		(except N	ЛLRA 1)			Surface (TF1	12)
☐ Hydrogen	Sulfide (A4)		☐ Loamy Gleyed M		` '	·		(Explain in F		,
☐ Depleted	Below Dark Surface (A11)	☐ Depleted Matrix							
	k Surface (A12)		Redox Dark Surf				3Indicator	s of hydrop	hytic vegetati	on and
_	cky Mineral (S1)		Depleted Dark Si)				ust be preser	nt,
-	eyed Matrix (S4)		Redox Depressio	ns (F8)			unless di	sturbed or p	roblematic.	
Restrictive I	Layer (if present):									
Type:									O Yes	No
Depth (in	ches):						Hydric Soil Pre	esent?	O res	9 140
Remarks:										
Fill from conv	verted rail to trail emb	pankment,	no hydric soil indicat	ors						
HYDROLO	GV.									
	drology Indicators:									
_	cators (minimum of o	no roquiro	to chack all that anni-	w)			Secondar	v Indicators	(2 or more r	equired)
Surface W		ne required	<u>u, check all that appi</u> ☐ Water-Stain		(B9) (exc	rent			ves (B9) (ML	
☐ High Wate				, 2, 4A, ar	. , .	срі		, and 4B)	IVCS (D7) (IVIL	10(1, 2,
☐ Saturation	` '		☐ Salt Crust (E					ge Patterns	(B10)	
☐ Water Mai			☐ Aquatic Inve		(B13)			ason Water		
☐ Sediment	Deposits (B2)		☐ Hydrogen St	ulfide Odo	r (C1)		☐ Satura	tion Visible	on Aerial Ima	gery (C9)
☐ Drift Depo			Oxidized Rh		_	ing Roots		orphic Positi		
☐ Algal Mat			Presence of					v Aquitard (
☐ Iron Depo			Recent Iron			. ,		eutral Test (
	oil Cracks (B6)	(D7)	Stunted or S			(LRR A)			s (D6) (LRR <i>F</i>	A)
	n Visible on Aerial Im /egetated Concave Su		Other (Expla	ıın ın kem	iarks)		☐ Frost-F	Heave Humr	nocks (D7)	
Field Observ		miace (DO)								
		a .								
Surface Wat	_		• `							
Water Table								_		.
Saturation P		⊚ N	lo Depth (inch	es):		w	etland Hydrology Pr	esent?	O Yes	No
(includes cap Describe Re	corded Data (stream	gauge, mo	nitoring well, aerial n	hotos, pre	evious ins	pections)	. if available:			
2000 INC	co. aca Data (Stream	gaago, mic	omig won, acrial p	, pre		r 0000113)	, aranabio.			
Remarks:										
No evidence	of wetland hydrology	′								
									125	2

Project/Site: Sammamish-Juanita Transmission Line	Project	Ci	ty/County: I	Kirkland	Sampling Date: 6/4/2019			
Applicant/Owner: Puget Sound Energy				Stat	ee: WA Sampling Point: SP-KK3			
Investigator(s): JDB, GM		Se	Section, Township, Range:					
Landform (hillslope, terrace, etc.): ditch		Lc	ocal relief (co	oncave, con	vex, none): <u>none</u> Slope (%): <u>5</u>			
Subregion (LRR): A	Lat:			Long:	Datum:			
Soil Map Unit Name:					NWI Classification: upland			
Are climatic / hydrologic conditions on the site typical	I for this time	of year	? O Yes	s 🖲 No	(If no, explain in Remarks.)			
Are Vegetation \square , Soil \square , or Hydrology \square	significantl	y disturb	ed?	Are "۱	Normal Circumstances" present? Yes No			
Are Vegetation \square , Soil \square , or Hydrology \square	naturally p	roblema	tic?	(If nee	eded, explain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site r	nap show	ing sa	mpling p	oint locat	tions, transects, important features, etc.			
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Yes	O No No			e Sampled A	^ ^			
Remarks: WETLAND K-K. Paired with plot SP-KK4 VEGETATION – Use scientific names of	plants.							
	Absolute	Dom.	Relative	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30ft x 30ft) 1. Populus balsamifera	% Cover			Status	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)			
2					Total Number of Dominant Species Across All Strata: 3 (B)			
4.		= Total			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
Sapling/Shrub Stratum (Plot size:)					,			
1					Prevalence Index worksheet:			
2					Total % Cover of: Multiply by:			
3					OBL species 0 x 1 = 0			
	. ———				FACW species 0 x 2 = 0 FAC species 106 x 3 = 318			
5		= Total			FACU species 0 x 4 = 0			
Herb Stratum (Plot size: 5ft x 5ft)	-			ļ	UPL species 0 x 5 = 0			
Solanum dulcamara	5	<u>Y</u>	83.3	FAC	Column Totals: 106 (A) 318 (B)			
2. Equisetum arvense	1	N	16.7	FAC	Prevalence Index = B/A = 3.000			
3					Hydrophytic Vegetation Indicators:			
4					1 - Rapid Test for Hydrophytic Vegetation			
5 6.					2 - Dominance Test is >50%			
7.					3 - Prevalence Index is ≤3.0¹			
8.					4 - Morphological Adaptations¹ (Provide supporting			
9.					data in Remarks or on a separate sheet)			
10					☐ 5 - Wetland Non-Vascular Plants¹			
11					☐ Problematic Hydrophytic Vegetation¹ (Explain)			
	6	= Total	Cover		¹ Indicators of hydric soil and wetland hydrology must be			
Woody Vine Stratum (Plot size: 15ft x 15ft)	FO	v	100.0	FAC	present, unless disturbed or problematic.			
1. Rubus armeniacus	50	<u>Y</u>	100.0	<u>FAC</u>	Hydrophytic			
2	50	= Total	Cover		Vegetation			
% Bare Ground in Herb Stratum60					Present? Yes No			
Remarks:								
Along ditch, slightly higher in topography, change in	ı vegetation f	or down	stream wetl	ands	1253			

SOIL Sampling Point: SP-KK3

Profile Description: (De	escribe to th	e depth ne	eded to docum	ent the ir	ndicator o	or confirm	the absence of inc	dicators.)		
Depth	Matrix		Red	ox Featur	es					
(inches) Color (n	noist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-12 10YR	2/1	50					Gravelly Silt Loam	50% rock	fragments	_
>12								Unable to	sample belov	v 12"
										_
								-		
										_
¹Type: C=Concentration,	D=Depletion	. RM=Red	uced Matrix. CS=	-Covered	or Coated	Sand Gra	ains. ² Loc	cation: PL=P	ore Lining, M	=Matrix.
Hydric Soil Indicators:									ematic Hydri	
☐ Histosol (A1)			Sandy Redox (S5	5)			☐ 2 cm I	Muck (A10)		
☐ Histic Epipedon (A2)			Stripped Matrix (arent Materi	al (TF2)	
☐ Black Histic (A3)			Loamy Mucky Mi	neral (F1)	(except N	ЛLRA 1)	☐ Very S	Shallow Dark	Surface (TF1	2)
☐ Hydrogen Sulfide (A4)			Loamy Gleyed Ma				□ Other	(Explain in F	Remarks)	
Depleted Below Dark			Depleted Matrix							
☐ Thick Dark Surface (A			Redox Dark Surfa	. ,					hytic vegetation	
☐ Sandy Mucky Mineral☐ Sandy Gleyed Matrix (Depleted Dark Su Redox Depressio)			nydrology m isturbed or p	ust be presen	t,
			Redux Depressio	113 (10)			uniess un	isturbed or p	noblematic.	
Restrictive Layer (if pre	esent):									
Type:									O Yes	No
Depth (inches):							Hydric Soil Pr	esent?	O res	9 NO
Remarks:										
Soil distrubed, trapped s	ediment, no h	nydric soil i	ndicators							
LIVEROL COV										
HYDROLOGY										
Wetland Hydrology Ind										
Primary Indicators (minir	mum of one r	equired; ch		•					(2 or more re	
Surface Water (A1)			☐ Water-Staine			ept			ives (B9) (MLI	RA 1, 2,
✓ High Water Table (A2))		MLRA 1,	, 2, 4A, ar	na 4B)			A, and 4B) Ige Patterns	(D10)	
✓ Saturation (A3) ☐ Water Marks (B1)			Aquatic Inve	,	(B13)			eason Water		
Sediment Deposits (B2	2)		☐ Hydrogen Su						on Aerial Ima	nery (C9)
☐ Drift Deposits (B3)	-/		Oxidized Rhi		. ,	ina Roots		orphic Positi		gory (07)
☐ Algal Mat or Crust (B4	.)		Presence of	-	_	J		w Aquitard (
☐ Iron Deposits (B5)			☐ Recent Iron	Reduction	n in Tilled	Soils (C6)	☐ FAC-N	eutral Test ((D5)	
☐ Surface Soil Cracks (B	-		☐ Stunted or S			(LRR A)			s (D6) (LRR A)
Inundation Visible on	_	-	☐ Other (Expla	iin in Rem	narks)		☐ Frost-	Heave Humr	nocks (D7)	
☐ Sparsely Vegetated Co	oncave Surfac	ce (B8)				•				
Field Observations:										
Surface Water Present?	O Yes	No	Depth (inche							
Water Table Present?	Yes	O No	Depth (inche	es):	7					
Saturation Present?	Yes	O No	Depth (inche	es):	4	We	etland Hydrology P	resent?	Yes	O No
(includes capillary fringe)		· ·	nine na constitue de la consti	h = 4			if a called to			
Describe Recorded Data	ı (stream gau	ge, monito	rıng weii, aerial p	notos, pr	evious ins	pections),	ır avalladie:			
Remarks:										
									125	4

Project/Site: Sammamish-Juanita Transmission	Line Project	City/	County: I	Kirkland	Sampling Date: 6/4/2019
Applicant/Owner: Puget Sound Energy	,	_ ′	· -		te: WA Sampling Point: SP-KK4
Investigator(s): JDB, GM		Sect	ion, Town		e:
Landform (hillslope, terrace, etc.): ditch, swale					vex, none): concave Slope (%): 5
Subregion (LRR): A					Datum:
Soil Map Unit Name:					NWI Classification: PEM
Are climatic / hydrologic conditions on the site ty	pical for this time o	of year?	O Yes		
Are Vegetation ☐ , Soil ☐ , or Hydrology [•	•		Are "N	Normal Circumstances" present? O Yes O No
Are Vegetation ☐ , Soil ☐ , or Hydrology [naturally pro	blematic	?		eded, explain any answers in Remarks.)
-		ng sam	pling p		tions, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Yes Yes	O No O No O No			Sampled A	
Remarks:					
VEGETATION – Use scientific names	of plants.				
	Absolute I	Dom. F	Relative	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1)	% Cover	Sp.? 9	% Cover	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2.					Total Number of Dominant
3					Species Across All Strata:3 (B)
4		Total Co	over		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:		Total Oc	JV01		111at 7tt 0 052, 1710 W, 011710
1					Prevalence Index worksheet:
2					Total % Cover of: Multiply by:
3.					OBL species 0 x 1 = 0
4					FACW species 105 x 2 = 210 FAC species 60
5		Total Co	over		FAC species 60 x 3 = 180 FACU species 0 x 4 = 0
Herb Stratum (Plot size: 5ft x 5ft)		. 010. 00			UPL species 0 x 5 = 0
Phalaris arundinacea	80	Υ	55.2	FACW	Column Totals: 165 (A) 390 (B)
2. Solanum dulcamara	40	Υ	27.6	FAC	Prevalence Index = B/A = 2.364
3. Impatiens sp.	25	<u>N</u>	17.2	FACW	Hydrophytic Vegetation Indicators:
4 5.					1 - Rapid Test for Hydrophytic Vegetation
6					2 - Dominance Test is >50%
7.					3 - Prevalence Index is ≤3.0¹
8.					4 - Morphological Adaptations ¹ (Provide supporting
9					data in Remarks or on a separate sheet)
10.					5 - Wetland Non-Vascular Plants ¹
11		 			Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 15ft x 15ft	145=)	Total Co	over		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Rubus armeniacus	20	Υ	100.0	FAC	
2		Total C			Hydrophytic Vegetation
% Bare Ground in Herb Stratum10	=	Total Co	over		Present? Yes O No
Remarks:					
Herbecous plot truncated by uplands, developr	nent to south and b	olackberr	y thickets	to the north	1255

SOIL Sampling Point: SP-KK4

Profile Des	cription: (De	scribe to th	e depth ne	eded to docum	ent the in	dicator o	r confirn	n the absence of inc	licators.)		
Depth		Matrix		Redo	ox Featur	es					
(inches)	Color (m	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	i
0-12	10YR	2/1	98 -	10YR 3/6	2	С	М	Silt Loam			
>12									Unable to	sample belov	v 12"
										'	
-											
17 0. 0.		D. Danielatia			0		010-	21	- Cara DL D	Anna I Sasta a N	L. N.A Godon
				uced Matrix, CS= s, unless otherw			Sand Gr			ore Lining, Mematic Hydr	
		Дрисавіс				u.,				ciliatio riyai	ic cons .
☐ Histosol (Sandy Redox (S5)					/luck (A10)	al (TEO)	
☐ Histic Epi ☐ Black Hist				Stripped Matrix (S		(avaant N	/I D / 1 \		rent Materi		12)
	n Sulfide (A4)			Loamy Mucky Mir Loamy Gleyed Ma		(except iv	ILKA I)		(Explain in f	Surface (TF1	12)
	Below Dark S			Depleted Matrix (☐ Other	(Explail ill i	(emarks)	
	rk Surface (A1			Redox Dark Surfa	. ,			21 1' 1	()	haadaa aa aa aa dad	
	ucky Mineral (•		Depleted Dark Su)				hytic vegetati ust be preser	
	eyed Matrix (Redox Depression		,				ust be preser roblematic.	и,
_	Layer (if pre							1			
	Layer (II pre-	senty.									
Type:								1		Yes	O No
Depth (in	nches):			<u> </u>				Hydric Soil Pro	esent?	9 163	O 140
Remarks:											
HYDROLO)GY										
Wetland Hy	drology Indi	cators:									
Primary Indi	icators (minim	num of one	required; cl	neck all that apply	()			Secondar	y Indicators	(2 or more r	equired)
✓ Surface W				☐ Water-Staine		(B9) (exc	ept	☐ Water-	Stained Lea	ves (B9) (ML	RA 1, 2,
☑ High Water	er Table (A2)			MLRA 1,	2, 4A, ar	ıd 4B)		44	, and 4B)		
✓ Saturation	n (A3)			☐ Salt Crust (B	11)			□ Draina	ge Patterns	(B10)	
☐ Water Ma	arks (B1)			☐ Aquatic Inve	rtebrates	(B13)		☐ Dry-Se	ason Water	Table (C2)	
	Deposits (B2)		Hydrogen Su		. ,				on Aerial Ima	gery (C9)
Drift Depo				Oxidized Rhiz		•	ing Roots		orphic Positi		
_	or Crust (B4)	J		Presence of I					v Aquitard (
☐ Iron Depo				Recent Iron			, ,		eutral Test (
	oil Cracks (Bé		(0=)	Stunted or S			(LRR A)			s (D6) (LRR A	A)
	on Visible on A	_	-	☐ Other (Expla	in in Rem	arks)		☐ Frost-F	leave Humr	nocks (D7)	
	Vegetated Co	ncave Surfa	ce (B8)								
Field Obser	rvations:										
Surface Wat	ter Present?	Yes	O No	Depth (inche	s):	0.5					
Water Table	Present?	Yes	O No	Depth (inche	es):	0					
Saturation P	Present?	Yes	O No	Depth (inche	es):	0	w	etland Hydrology Pr	esent?	Yes	O No
	pillary fringe)										
Describe Re	ecorded Data	(stream gau	ıge, monito	ring well, aerial p	hotos, pre	evious insp	pections)	, if available:			
Domorto											
Remarks:											
										125	6

Project/Site: Sammamish-Juanita Transmission Lin	e <u>Project</u>	Ci	ty/County:	Kirkland	Sampling Date: 6/4/2019
Applicant/Owner: Puget Sound Energy				Sta	te: WA Sampling Point: SP-10
Investigator(s): JDB, GM		Se	ection, Towr		e:
Landform (hillslope, terrace, etc.): depression					vex, none): concave Slope (%): 0
Subregion (LRR): A	Lat:			Long:	Datum:
Soil Map Unit Name:					NWI Classification: PEM
Are climatic / hydrologic conditions on the site typic		of year	? O Ye:	s 🖲 N	0 (If no, explain in Remarks.)
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐	significantly	y disturb	ed?	Are "I	Normal Circumstances" present? Yes No
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐	naturally p				eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site	map show	ing sa	mpling p		tions, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Yes Yes Yes	O No No			e Sampled <i>i</i> n a Wetland	
Remarks: WETLAND K-K. Verification of sampling point take VEGETATION – Use scientific names of		14, vege	tation has c	hanged	
	Absolute	Dom.	Relative	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft)	% Cover	Sp.?	% Cover	Status	Number of Dominant Species
1. Populus balsamifera	10	<u>Y</u>	100.0	FAC	That Are OBL, FACW, or FAC: 5 (A)
2. 3.					Total Number of Dominant Species Across All Strata: 8 (B)
4.					Percent of Dominant Species
		= Total	Cover		That Are OBL, FACW, or FAC: 62.5% (A/B)
Sapling/Shrub Stratum (Plot size: 15ft x 15ft)	40	v	50.0	E40	Prevalence Index worksheet:
 Populus balsamifera Corylus cornuta 		<u>Y</u>	25.0	FACU	
3. Alnus rubra		<u>'</u>	25.0	FAC	Total % Cover of: Multiply by: OBL species 0 x 1 = 0
4.		<u> </u>			FACW species 0 x 2 = 0
5.					FAC species 60 x 3 = 180
	20	= Total	Cover		FACU species 40 x 4 = 160
Herb Stratum (Plot size: 5ft x 5ft)					UPL species0 x 5 =0
Equisetum arvense	15	<u>Y</u>	30.0	FAC	Column Totals:(A)(B)
2. Cirsium vulgare		<u>Y</u>	40.0	FACU	Prevalence Index = B/A = 3.400
Galium aparine 4.	15	<u>Y</u>	30.0	FACU	Hydrophytic Vegetation Indicators:
5.					1 - Rapid Test for Hydrophytic Vegetation
6.					✓ 2 - Dominance Test is >50%
7.					3 - Prevalence Index is ≤3.0¹
8.					4 - Morphological Adaptations ¹ (Provide supporting
9.					data in Remarks or on a separate sheet)
10					5 - Wetland Non-Vascular Plants ¹
11					☐ Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 5ft x 5ft)	50	= Total	Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Rubus armeniacus	20	Υ	100.0	FAC	
2.					Hydrophytic
% Bare Ground in Herb Stratum	20	= Total	Cover		Vegetation Present? • Yes • No
Remarks:					<u> </u>
					1257

SOIL Sampling Point:	SP-10	
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)		

Profile Description: (I		the depth		nt the ir x Featur		or confirr	n the absence of i	ndicators.)		
Depth (inches) Color	Matrix (moist)	%	Color (moist)	x realui %	Type ¹	Loc ²	Texture		Remarks	;
0-18 7.5YR	3/3	80	Color (molor)	,,,	. , , , ,		Sandy Loam	20% rock	c fragments	
<u>0-10</u> <u>7.511K</u>	3/3						Sandy Loan	20 /0 1001	C II agiii ciilo	
								_		
								_		
										
¹ Type: C=Concentratio						d Sand G			Pore Lining, N	
Hydric Soil Indicators	: (Applical	ble to all LF	RRs, unless otherw	ise note	d.)		Indicat	tors for Prob	olematic Hydr	ic Soils³:
☐ Histosol (A1)			☐ Sandy Redox (S5)				☐ 2 cm	n Muck (A10)		
Histic Epipedon (A2)			Stripped Matrix (S	-				Parent Mater		
Black Histic (A3)			Loamy Mucky Min		(except	MLRA 1)			k Surface (TF	12)
☐ Hydrogen Sulfide (A☐ Depleted Below Dar			Loamy Gleyed Ma				☐ Othe	er (Explain in	Remarks)	
☐ Thick Dark Surface	•		Depleted Matrix (FRedox Dark Surface							
☐ Sandy Mucky Minera			Depleted Dark Sur)			, ,	phytic vegetat nust be prese	
☐ Sandy Gleyed Matrix	. ,		Redox Depression	-	,			disturbed or	•	π,
Restrictive Layer (if p				- (-)						
_	i cociity.									
Type:									O Yes	No
Depth (inches):							Hydric Soil I	resent?	0 103	<u> </u>
HYDROLOGY										
Wetland Hydrology In	dicators:									
Primary Indicators (mir	nimum of o	ne required:	check all that apply)			Second	larv Indicator	s (2 or more r	equired)
☐ Surface Water (A1)		,	☐ Water-Stained		(B9) (ex	cept			aves (B9) (ML	•
☐ High Water Table (A	2)		MLRA 1,	2, 4A, ar	nd 4B)	•		4A, and 4B)	, , ,	
☐ Saturation (A3)			☐ Salt Crust (B1	1)			☐ Drai	nage Pattern	s (B10)	
☐ Water Marks (B1)			☐ Aquatic Inver	tebrates	(B13)		☐ Dry-	Season Wate	er Table (C2)	
☐ Sediment Deposits (B2)		☐ Hydrogen Sul						on Aerial Ima	igery (C9)
☐ Drift Deposits (B3)			Oxidized Rhiz		_	ving Roots	· · ·	morphic Posi		
☐ Algal Mat or Crust (E	34)		☐ Presence of R					low Aquitard		
Iron Deposits (B5)	(D. (.)		Recent Iron R					Neutral Test	• •	
Surface Soil Cracks		(D7)	Stunted or St		-) (LRR A)			ds (D6) (LRR /	4)
Inundation Visible of			Other (Explain	n in Rem	iarks)		☐ Fros	t-Heave Hum	imocks (D7)	
Sparsely Vegetated	Joneave Su	лтасе (во)								
Field Observations:	_	_								
Surface Water Present				s):						
Water Table Present?	O Yes			s):						
Saturation Present?	O Yes	No	Depth (inches	s):		W	etland Hydrology	Present?	O Yes	No
(includes capillary fring			Manufacture III - 1 1 1	-1-			9 9 - 1 - 1			
Describe Recorded Da	ıa (stream	gauge, mon	itoring well, aerial ph	iotos, pre	evious ins	spections)	, ir available:			
Remarks:										
No wetland hydrology i	ndicators o	bserved								
,										

	King
Project Site: Cherida Delineastion	City/County: 3 County . Sampling Date: 4114
Applicant/Owner: PSE	State: WA Sampling Point: 59 1)
investigator(s): LHIG M	Section, Township, Range:
	lief (concave, convex, none): Slope (%); 21
Subregión (LRR): Lat:	Long: Datum:
아마트를 하는 사람들은 사람들이 아니는 그래요?	NWI classification:
Soil Map Unit Name:	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No □ (If no, explain in Remarks.) As the property of th
Are Vegetation , Soil , or Hydrology , significantly disturbed?	Are "Normal Circumstances" present? Yes No X
Are Vegetation ☐, Soll ☐, or Hydrology ☐, naturally problematic?	(If needed, explain any answers in Remarks.)
ger The first the property of the contract of	
SUMMARY OF FINDINGS – Attach site map showing sampling point loc	cations, transects, important features, etc.
Hydrophytic Vegetation Present?	he Sampled Area
Hydric Soil Present?	hin a Wetland? Yes No X
Wetland Hydrology Present?	<u> 1888 i artikali viranci. I i 178 i i i i i i i i i i i i i i i i i i i</u>
Remarks: Project site located along aband	ored rail line corridor. Wetland are
	oad emband ment disturbed - channel
Liter & Fill of a Feed tracks	그 사람이 많은 그들은 어느 사람들은 그래요. 이 아는 黃麗 이 아들은 그는 사람이 아들이 아들이 아들이 아들이 아들이 아들이 아들이 아들이 아들이 아들
VEGETATION - Use scientific names of plants	3 3° min sweether on many aleas.
Trae Stratum (Plot cite)	dicator Dominance Test Worksheet:
1. Cornus cylica 20 FAC	atus 2
	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Salix sitchessis 10 of The	
	Total Number of Dominant Species Across All Strata: (B)
16	
50% = .15 20% = .00 = Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	The state of the second se
1. <u>5</u> 💖	Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3. Landa de la companya de la compan	OBL species x1 =
4	FACW species x2 =
5	FAC species x3 =
50% = = Total Cover	FACU species x4 =
Herb Stratum (Plot size:)	UPL species x5 =
1. Earlisetum augustissis 50 4 M	Column Totals: (A) (B)
2 Sumbilius ratumosa 20 / FAR	
3. A 1 Configuration of the second of the se	Hydrophytic Vegetation Indicators:
A 100 September 12 Control of the Co	
	2 - Dominance Test is >50%
5. All comparis the distance of the second o	그 그리 그리 그렇게 하는 그 그는 그리고 하면 하는 것을 하는 것을 하는 것이다.
6. The beside water party of the transfer of the control of the co	☐ 3 - Prevalence Index is ≤3.01
	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
8 SO	
· 9	5 - Wetland Non-Vascular Plants¹
10. The state of t	Problematic Hydrophytic Vegetation¹ (Explain)
50% = 35, $20% = 64$ = Total Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	
1. Rubus armuniails so Y FAI	
2 1 and Promoting to the contract to	Hydrophytic
50% = .2.5 ,20% = .10	─ Vegetation Yes 💆 No 🖸
	Present?
% Bare Ground in Herb Stratum	
Remarks:	ta ranga (
	•

Project Site PSE Corridor Delinocation.

rofile Desc	cription: (Describ	e to the	gahar	needed	to doc			iirm uie ausei	ce of indicat	ors.)				
Depth	Matri	Χ	***********			Redox	Features							
nches)	Color (moist)		%	Colo	(moist	<u> </u>	Type'	Loc²	Texture			Remarks	3	
0-2	104R42	7					***************************************		27H/	daylo	A Comment			
	104R5/1		0			Ju			- 11.					
7-19	7. <u>58R</u> 4/	i of	2_	تات	yrs	14 50	<u> </u>	<u>M</u>	enti	clay low	M			

				_		***************************************		,	,					
		•				*************		***************************************						

	oncentration, D=D							d Grains.		=Pore Lining, I			3	
dric Soll	Indicators: (Appli	cable t	o all LR	Rs, uni	ess oth	nerwise noted.				cators for Pro		Hydric S	olls":	
Histos	ioi (A1)			[]	Sandy Redox (S	§5)			2 cm Muck				
Histic	Epipedon (A2)			(]	Stripped Matrix	(S6)			Red Paren				
Black	Histic (A3)			(] [Loamy Mucky N	fineral (F1) (e	xcept MLRA 1		Very Shallo		•	F12)	
Hydro	gen Sulfide (A4)			() i	Loamy Gleyed I	Matrix (F2)			Other (Exp	lain in Rer	narks)		
Deple	ted Below Dark Su	rface (A	111)	(] · [Depleted Matrix	(F3)							
Thick	Dark Surface (A12)		[) F	Redox Dark Su	rface (F6)		•					
Sandy	/ Mucky Mineral (S	1)		[] • [Depleted Dark	Surface (F7)			icators of hydr vetland hydrold				-
Sandy	Gleyed Matrix (S4	1)) F	Redox Depress	ions (F8)			ınless disturbe			·,	
strictive	Layer (if present)	:												
e:	*													١.
					,			Undela Call	s Present?		Yes		No	
	soil do	~~ <u>~</u>	not	her	e av	angt	ydric			015.				
epth (inche emarks:	Spil do		not	**	ept	angt	ydric			W\$3				
emarks:	Spil do		not	m	est	angt	ydric			75.				
marks: /DROLC	Spildo	s:					ydric		dicate	ndary Indicato	rs (2 or mo	ore requir	ed)	
marks: 'DROLC atland Hy mary Indi	Spildon OGY vdrology Indicator	s:		check a	li that a				Seco				ed)	
Marks: 'DROLC etiand Hy mary Indi Surfa	Spil day	s:		check a	II that a	ipply)	Leaves (B9)	Soil in	Seco	ndary Indicato	Leaves (B9)	ed)	
Marks: 'DROLC etiand Hy mary Indi Surfa High	OGY pdrology Indicator icators (minimum cate Water (A1)	s:		check a	II that a	apply) Water-Stained	Leaves (B9) 1, 2, 4A, and	Soil in	Seco	ndary Indicato Water-Stained	I Leaves (A, and 4E	B9) 3)	ed)	
Marks: /DROLCetland Hy mary Indi Surfa High Satur	OGY ydrology Indicator icators (minimum cators (A1) Water Table (A2)	s:		check a	If that a	apply) Water-Stained (except MLRA	Leaves (B9) 1, 2, 4A, and)	Soil in	Seco	ndary Indicato Water-Stained	Leaves (A, and 4E erns (B10)	B9) 3)	ed)	
DROLO tland Hy mary Indi Surfa High Satur Wate	OGY vdrology Indicator icators (minimum of the Water (A1) Water Table (A2) ration (A3)	s: f one re		check a	If that a	apply) Water-Stained (except MLRA Salt Crust (B11	Leaves (B9) 1, 2, 4A, and) brates (B13)	Soil in	Seco	ndary Indicato Water-Stained (MLRA 1, 2, 4 Drainage Patt	I Leaves (IA, and 4E erns (B10) Vater Tabl	B9) 3)) e (C2))
/DROLC atland Hy mary Indi Surfa High Satur Wate Sedir	OGY vdrology Indicator icators (minimum of ice Water (A1) Water Table (A2) ration (A3) or Marks (B1)	s: fone re		check a	li that a	apply) Water-Stained (except MLRA Salt Crust (B11 Aquatic Inverte	Leaves (B9) 1, 2, 4A, and) brates (B13) de Odor (C1)	Soil 197	Seco	ndary Indicato Water-Stainer (MILRA 1, 2, 4 Drainage Patt Dry-Season V	I Leaves (IA, and 4E erns (B10) Vater Table lible on Ae	B9) 3)) e (C2) erial Imag)
/DROLCetland Hymary India Surfa High Satur Wate Sedir	OGY /drology Indicator icators (minimum cace Water (A1) Water Table (A2) ration (A3) or Marks (B1) ment Deposits (B2)	s: fone re		check a	II that a	apply) Water-Stained (except MLRA Salt Crust (B11 Aquatic Inverte Hydrogen Sulfid	Leaves (B9) 1, 2, 4A, and) brates (B13) de Odor (C1) spheres along	4B)	Seco	ndary Indicato Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis	I Leaves (IA, and 4E erns (B10) Vater Table Vater Table Position (D	B9) 3)) e (C2) erial Imag)
/DROLCetland Hymary Indi Surfa High Saturi Wate Sediri Algal	OGY /drology Indicator icators (minimum of ice Water (A1) Water Table (A2) ration (A3) or Marks (B1) ment Deposits (B2) Deposits (B3)	s: fone re		check a	II that a	upply) Water-Stained (except MLRA Salt Crust (B11 Aquatic Inverte Hydrogen Sulfic	Leaves (B9) 1, 2, 4A, and) brates (B13) de Odor (C1) spheres along	4B)	Seco	ndary Indicato Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F	I Leaves (IA, and 4E erns (B10) Vater Table Lible on Ae Position (D ard (D3)	B9) 3)) e (C2) erial Imag)
/DROLCetland Hymary Indi Surfa High Saturi Wate Sediri Drift I Algal	OGY pdrology Indicator icators (minimum of noe Water (A1) Water Table (A2) ration (A3) or Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4)	s: fone re		check a	that a	epply) Water-Stained (except MLRA Salt Crust (B11 Aquatic Inverte Hydrogen Sulfic Oxidized Rhizo Presence of Re	Leaves (B9) 1, 2, 4A, and) brates (B13) de Odor (C1) spheres along educed fron (C duction in Tille	4B) Living Roots (C4) ed Soils (C6)	Seco C3) C3)	ndary Indicato Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit	I Leaves (IA, and 4E erns (B10) Vater Table ible on Ae Position (D ard (D3) Fest (D5)	B9) 3)) e (C2) erial Imag	ery (C9)
POROLO Surfa High Satur Wate Sedir Drift I Algal Iron E Surfa	OGY pdrology Indicator icators (minimum of ice Water (A1) Water Table (A2) ration (A3) or Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)	s: fone re	equired;	check a	that a	epply) Water-Stained (except MLRA Salt Crust (B11 Aquatic Inverte Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re	Leaves (B9) 1, 2, 4A, and) brates (B13) de Odor (C1) spheres along educed Iron (C duction in Tille	4B) Living Roots (C4) ed Soils (C6)	Seco	ndary Indicato Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	I Leaves (IA, and 4E erns (B10) Vater Table Lible on Ae Position (D ard (D3) Fest (D5) ounds (D6	B9) 3)) e (C2) rial Imag (2)	ery (C9)
/DROLCetland Hymary India Surfa High Satur Vate Sedir Drift I Algal Iron I	DGY /drology Indicator icators (minimum of noe Water (A1) Water Table (A2) ration (A3) or Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B6 dation Visible on Ad	s: f one re	equired;	check a	that a	Apply) Water-Stained (except MLRA) Salt Crust (B11) Aquatic Inverte Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	Leaves (B9) 1, 2, 4A, and) brates (B13) de Odor (C1) spheres along educed Iron (C duction in Tille	4B) Living Roots (C4) ed Soils (C6)		ndary Indicato Water-Stainer (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	I Leaves (IA, and 4E erns (B10) Vater Table Lible on Ae Position (D ard (D3) Fest (D5) ounds (D6	B9) 3)) e (C2) rial Imag (2)	ery (C9)
/DROLCetland Hy mary Indi Surfa High Satur Vate Sedir Drift Algal Iron I Surfa	DGY /drology Indicator icators (minimum of the Water (A1) Water Table (A2) ration (A3) or Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B6) dation Visible on Acesely Vegetated Core	s: f one re	equired;	check a	that a	Apply) Water-Stained (except MLRA) Salt Crust (B11) Aquatic Inverte Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	Leaves (B9) 1, 2, 4A, and) brates (B13) de Odor (C1) spheres along educed Iron (C duction in Tille	4B) Living Roots (C4) ed Soils (C6)		ndary Indicato Water-Stainer (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	I Leaves (IA, and 4E erns (B10) Vater Table Lible on Ae Position (D ard (D3) Fest (D5) ounds (D6	B9) 3)) e (C2) rial Imag (2)	ery (C9)
/DROLC atland Hy mary Indi Surfa High Satur Vate Sedir Indi Indi Surfa Inunc Span	DGY /drology Indicator icators (minimum of the Water (A1) Water Table (A2) ration (A3) or Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B6 dation Visible on Acesely Vegetated Convations:	rs: If one re	equired; agery (B Surface (check a	that a	ipply) Water-Stained (except MLRA Salt Crust (B11 Aquatic Inverte Hydrogen Sulfii Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain	Leaves (B9) 1, 2, 4A, and) brates (B13) de Odor (C1) spheres along educed fron (C duction in Title esses Plants (C	4B) Living Roots (C4) ed Soils (C6)		ndary Indicato Water-Stainer (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	I Leaves (IA, and 4E erns (B10) Vater Table Lible on Ae Position (D ard (D3) Fest (D5) ounds (D6	B9) 3)) e (C2) rial Imag (2)	ery (C9)
/DROLC atland Hy mary Indi Surfa High Satur Vate Sedir Inn I Surfa Innuc Span	DGY //drology Indicator icators (minimum of the Water (A1) Water Table (A2) ration (A3) er Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B6 dation Visible on Ad sely Vegetated Convertions: other Present?	f one re	equired; agery (B	check a	that a	expply) Water-Stained (except MLRA Salt Crust (B11 Aquatic Inverte Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain	Leaves (B9) 1, 2, 4A, and) brates (B13) de Odor (C1) spheres along duced Iron (C duction in Title isses Plants (D in Remarks)	4B) Living Roots (C4) ed Soils (C6)		ndary Indicato Water-Stainer (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	I Leaves (IA, and 4E erns (B10) Vater Table Lible on Ae Position (D ard (D3) Fest (D5) ounds (D6	B9) 3)) e (C2) rial Imag (2)	ery (C9	
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betneen 124th and T-405 (poly 218 30)

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Corridor Delineration King Project Site: City/County: Sampling Date: Applicant/Owner. Sampling Point: Section, Township, Range; Investigator(s): Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Datum: Long: Subregion (LRR): Lat Soil Map Unit Name: NWI classification: [(If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation Are "Normal Circumstances" present? Π. or Hydrology □, significantly disturbed? No or Hydrology ☐, naturally problematic? (If needed, explain any answers in Remarks.) Are Vegetation Soil SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? No is the Sampled Area No Yes 🔲 No Hydric Soll Present? Yes within a Wetland? Wetland Hydrology Present? Yes No Remarks: VEGETATION - Use scientific names of plants Absolute Dominant Indicator Tree Stratum (Plot size: Dominance Test Worksheet: Species? Status FAC Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 50% = 15,20% = 06 = Total Cover Percent of Dominant Species (A/B) That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: 1 CY SC. Prevalence index worksheet: Multiply by: Total % Cover of: **OBL** species x1 = **FACW** species FAC species x3 = x4 = **FACU species** = Total Cover _, 20% = Herb Stratum (Plot size: **UPL** species x5 = (B) Column Totals: Prevalence index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% O 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants1 Problematic Hydrophytic Vegetation1 (Explain) 'Indicators of hydric soil and wetland hydrology must = Total Cover be present, unless disturbed or problematic. Woody Vine Stratum (Plot size: 1. PLAR Hydrophytic Vegetation . 20% = • 💆 = Total Cover Present? % Bare Ground in Herb Stratum Remarks:

Project Site: PE Carridar Delinection

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	Histosol (A1)					Sandy Re	dox (S5)		•			2 cm Muck	(A10)				-
	Histic Epipedon (A2)						latrix (S6)					Red Parent	Material	(TF2)			1
	Black Histic (A3)					Loamy Mu	cky Minera	il (F1) (ex	cept MLRA	1)		Very Shallo	w Dark S	urface (TF12)		ı
	Hydrogen Sulfide (A4)					Loamy GI	eyed Matrix	(F2)				Other (Expl	ain in Rer	narks)		•	
	Depleted Below Dark Su	rface (A	111)			Depleted	Vatrix (F3)				•						1
	Thick Dark Surface (A12)		1		Redox Da	rk Surface	(F6)					. •,				l
	Sandy Mucky Mineral (S	1)				Depleted	Dark Surfa	ce (F7)				ators of hydro					
	Sandy Gleyed Matrix (S4	1)				Redox De	pressions ((F8)				etiand hydrolo riess disturbe			ent,		
Restri	ctive Layer (if present)	;				······											
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Prima Prima Field Surfac Water Satura (include	nd Hydrology Indicator ry Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on A6 Sparsely Vegetated Coi Observations: the Water Present? Table Present?	of one reference of the control of t	. agery (B Surface (7) (B8) No No No		Water-Stat (except in Salt Crus Aquatic In Hydroger Oxidized Presence Recent In Stunted of Other (Ex	ILRA 1, 2, (B11) vertebrater Sulfide Oc Rhizospher of Reduce on Reduction r Stresses plain in Re in (inches): in (inches): in (inches):	4A, and s (B13) for (C1) res along d fron (C- on in Tille Plants (D marks)	Living Roots 4) d Soils (C6) 11) (LRR A)	Wetlar		Water-Stained MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave H	Leaves (A, and 4E erns (B10) /ater Tablible on Ae osition (D ard (D3) Fest (D5) bunds (D6	B9)) e (C2) enal Ima 2) (LRR s (D7)	gery (<u>*************************************</u>
Wetia Prima	nd Hydrology Indicator ry Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ac Sparsely Vegetated Cool Observations: Table Present? Interpresent? Interpresent (B4) Interpresen	of one reference of the control of t	. agery (B Surface (7) (B8) No No No		Water-Stat (except in Salt Crus Aquatic In Hydroger Oxidized Presence Recent In Stunted of Other (Ex	ILRA 1, 2, (B11) vertebrater Sulfide Oc Rhizospher of Reduce on Reduction r Stresses plain in Re in (inches): in (inches): in (inches):	4A, and s (B13) for (C1) res along d fron (C- on in Tille Plants (D marks)	Living Roots 4) d Soils (C6) 11) (LRR A)	Wetlar		Water-Stained MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave H	Leaves (A, and 4E erns (B10) /ater Tablible on Ae osition (D ard (D3) Fest (D5) bunds (D6	B9)) e (C2) enal Ima 2) (LRR s (D7)	gery (
Wetla Prima	nd Hydrology Indicator ry Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ac Sparsely Vegetated Cool Observations: Table Present? Interpresent? Interpresent (B4) Interpresen	of one reference of the control of t	. agery (B Surface (7) (B8) No No No		Water-State (except in Salt Crus Aquatic In Hydroger Oxidized Presence Recent In Stunted Cother (Except Dept Dept Dept Dept Processor (except Dept Dept Note (except Presence	ILRA 1, 2, (B11) vertebrater Sulfide Oc Rhizospher of Reduce on Reduction r Stresses plain in Re in (inches): in (inches): in (inches):	4A, and s (B13) for (C1) res along d fron (C- on in Tille Plants (D marks)	Living Roots 4) d Soils (C6) 11) (LRR A)	Wetlar		Water-Stained MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave H	Leaves (A, and 4E erns (B10) /ater Tablible on Ae osition (D ard (D3) Fest (D5) bunds (D6	B9)) e (C2) enal Ima 2) (LRR s (D7)	gery (**
Wetia Prima	nd Hydrology Indicator ry Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ac Sparsely Vegetated Cool Observations: Table Present? Interpresent? Interpresent (B4) Interpresen	of one reference of the control of t	. agery (B Surface (7) (B8) No No No		Water-State (except in Salt Crus Aquatic In Hydroger Oxidized Presence Recent In Stunted Cother (Except Dept Dept Dept Dept Processor (except Dept Dept Note (except Presence	ILRA 1, 2, (B11) vertebrater Sulfide Oc Rhizospher of Reduce on Reduction r Stresses plain in Re in (inches): in (inches): in (inches):	4A, and s (B13) for (C1) res along d fron (C- on in Tille Plants (D marks)	Living Roots 4) d Soils (C6) 11) (LRR A)	Wetlar		Water-Stained MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave H	Leaves (A, and 4E erns (B10) /ater Tablible on Ae osition (D ard (D3) Fest (D5) bunds (D6	B9)) e (C2) enal Ima 2) (LRR s (D7)	gery (**

wetland K-L uplan, s. end

WETLAND DETERMINATION DATA FORM -- Western Mountains, Valleys, and Coast Region Project/Site: PSE NW Corridor City/County: Kiva Co- Sampling Date: 10 - 2014 Applicant/Owner: PSE Investigator(s): Ashlon Lundo, Winda Howard Section, Township, Range: __ Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): _____ Slope (%): ____ Long: Datum: Subregion (LRR): NWI classification: Soil Map Unit Name: ____ Are climatic / hydrologic conditions on the site typical for this time of year? Yes ______ No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No ____ Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: VEGETATION - Use scientific names of plants. Dominance Test worksheet: Absolute Dominant Indicator Tree Stratum (Plot size; % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species (A/B) That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: _ Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x1= FACW species ___ **FAC species** = Total Cover **UPL** species Herb Stratum (Plot size: Column Totals: PHAR Prevalence Index = B/A = Hydrophytic Vegetation Indicators: _ 1 - Rapid Test for Hydrophytic Vegetation 1 2 - Dominance Test is >50% _ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants Problematic Hydrophytic Vegetation¹ (Explain) 10. 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover Woody Vine Stratum (Plot size: Hydrophytic Vegetation Present? = Total Cover % Bare Ground in Herb Stratum _ Remarks:

						· · · · · · · · · · · · · · · · · · ·
SOIL						Sampling Point: T-1, 5P-
Profile Desc	cription: (Describ	e to the dept	h needed to doc	ument the indica	tor or confirm	n the absence of indicators.)
Depth	Matrix		Red	dox Features		
(inches)	Color (moist)	%	Color (moist)	<u>%Typ</u>	e¹ Loc²	Texture Remarks
0-14	104R5/3	98%-	2548410	1 2°6 C	<u> </u>	silty clay loam, number fine
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				····		
						3
	oncentration, D=De				pated Sand G	
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless oth	erwise noted.)		Indicators for Problematic Hydric Solis ³ :
Histosol	, ,	-	Sandy Redox	• •		2 cm Muck (A10) -
•	pipedon (A2) istic (A3)	•	Stripped Matr	ıx (S6) / Mineral (F1) (exc	ont MI RA 1\	Red Parent Material (TF2) Very Shallow Dark Surface (TF12)
	en Sulfide (A4)		Loamy Gleye		sept milion 1/	Other (Explain in Remarks)
	d Below Dark Surfa	ce (A11)	Depleted Mat			
	ark Surface (A12)	-	Redox Dark S	• •		³ Indicators of hydrophytic vegetation and
	Mucky Mineral (S1) Bleyed Matrix (S4)	-	Depleted Dar Redox Depre	k Surface (F7)		wetland hydrology must be present,
	Layer (if present):		Redox Depre	ssions (ro)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	unless disturbed or problematic.
Type:	any or (ii product).					
Depth (in	ches):					Hydric Soil Present? Yes No
Remarks:					***************************************	
				•		
HYDROLO	GY		***************************************			
Wetland Hy	drology Indicators	3		······································	~**************************************	•
Primary India	cators (minimum of	one required	check all that ap	(vla		Secondary Indicators (2 or more required)
Surface	Water (A1)		Water-S	tained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
	ater Table (A2)	w 4		A 1, 2, 4A, and 4E	3)	4A, and 4B)
Saturation	• •		Salt Cru			Drainage Patterns (B10)
	larks (B1)		· .	Invertebrates (B13	•	Dry-Season Water Table (C2)
	nt Deposits (B2) posits (B3)		-	n Sulfide Odor (C		Saturation Visible on Aerial Imagery (C9)
	at or Crust (B4)			l Rhizospheres ald e of Reduced Iron	- · ·	ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
	posits (B5)			ron Reduction in 1		
	Soil Cracks (B6)			or Stressed Plants		· ·
	on Visible on Aerial	Imagery (B7		xplain in Remarks		Frost-Heave Hummocks (D7)
Sparsely	y Vegetated Concav	e Surface (B	8)		•	
Field Obser	vations:		<u> </u>	***************************************		
Surface Water	er Present?		lo Depth (inches):		` 🔪
Water Table	Present?	Yes N		inches):		1
Saturation Projection (includes car	and the second s	YesN	lo Depth (inches):	Wetl	and Hydrology Present? Yes No
Describe Re	corded Data (strear	n gauge, moi	nitoring well, aeria	I photos, previous	inspections),	if available:
					,	
Remarks:	Un Escando	ibori soi	(ch.C	***************************************		

Wetland K-L S. end WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

roject/Site: PSE NW Grridor		City/Cour	nty:		Sampling Date:	
pplicant/Owner: PSE - Color of Artifica			ar en 1865 algund annagen Talan	State: <u>LOPA</u>	Sampling Point:	SP-2
vestigator(s): Link Hopard / 1951/2015	unde_	Section,	Township, Ra	nge:		10 s s 22 <u>1</u> 25
andform (hillslope, terrace, etc.):	er en	Local rel	lef (concave,	convex, none):		pe (%):
	Lat:			Long:	Dati	im;
oil Map Unit Name:	The state of the state of		and the second second second second second	NWI classific		s to a second
e climatic / hydrologic conditions on the site typical for	this time of ye	ar? Yes	No _	(if no, explain in R	emarks.)	
re Vegetation, Soil, or Hydrology				Normal Circumstances" p	* H.	No
e Vegetation, Soil, or Hydrology				eded, explain any answe	- 11	
UMMARY OF FINDINGS – Attach site ma			erananan eran		areas in more entitle for alm as as a	eatures.
Hydrophytic Vegetation Present? Yes V	No	1 44				
Hydric Soil Present? Yes 1	No		the Sampled	Area		
Netland Hydrology Present? Yes	No	W	ithin a Wetlar	nd? Yes	No <u></u>	
Remarks:		٠	i Ti stratu inde		5.044 3.94598	
					and of the same	1 4
			Arti svogs Wêr s	system in the second	nscillaksommers och	1.24 (2.24.2)
EGETATION – Use scientific names of pl	ants.				garanjawan kiwi y	Aug Nord
	Absolute		nt Indicator	Dominance Test work	sheet:	
ree Stratum (Plot size:)	% Cover	Species	? Status	Number of Dominant S		
				That Are OBL, FACW,	or FAC:	(A
				Total Number of Domin		ì
•				Species Across All Stra	ta:	(B
		= Total	Cover	Percent of Dominant Sp		
Sapling/Shrub Stratum (Plot size:)				That Are OBL, FACW, Prevalence Index wor		(A
en de la companya de La companya de la co		************		Total % Cover of:		lv bv:
		·	· · · · · · · · · · · · · · · · · · ·	OBL species	er andre et al. and the south him after	
·				FACW species 1.00	100	
•	Mana Lastina		er er i Armeteussen Calles	FAC species	×3=	7 77 700
				FACU species 15		
lerb Stratum (Plot size:	-	= Total (Cover	UPL species	x5=	
· PH An	100	ં પુ	(MAT	Column Totals: 115	(A) <u>2</u>	<u>leo (</u>
		100	Maria Berrya	Prevalence Index	_ 2.2	llo .
	#572. 478. 1889. 188 . 1			Hydrophytic Vegetation	- D/A =	
	The second second	ry datas-yydyy e ry		1 - Rapid Test for H		Mion
				2 - Dominance Tes		
The state of the s				3 - Prevalence Inde		
*	,			4 - Morphological A	daptations ¹ (Prov	ride support
ekining stemper periodi periodi in terretari periodi periodi in distribution periodi in distribution periodi p Terretari				data in Remarks	or on a separate	sheet)
			<u>osagledir d</u> s	5 - Wetland Non-Va		Nasaati (1966)
0		10.45	<u> </u>	Problematic Hydrog	8 15 TO SEE TO SEE THE	ମାନ୍ତ୍ର ଅନ୍ତର୍ଶ୍ୱର ଅନ୍ତର୍ଶ
11 <u>, see Mary Magazines at assesse</u>	andiri <mark>kti i i</mark>		<u> </u>	¹ Indicators of hydric sol be present, unless distu	and wetland hyd	rology mus
Moody Wing Stratum (Plot size)		= Total C	over	De present, unless distr	1.5 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
Noody Vine Stratum (Plot size:)	15	V	FACH	100		A STATE OF THE STATE OF
2.		1 10000000	- '	Hydrophytic Vegetation	A	
·		= Total C	Cover		No	
% Bare Ground in Herb Stratum		_ i otai C	-O4GI			
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roille Descri	mon. (nescime	to the dej	pth needed to docu			•
Depth _	Matrix			ox Features	Loc ²	Tautura
(inches)	Color (moist)	%	Color (moist)	%Type	Loc	Texture Remarks
<u>-5</u>	1.5 yr 3/1					day low with some some
-14 10	ye 411	80	7.6 425 V	20 C	- W	sunty clay low, fine gra
			•			
		-				
						21 and an Discount frame ManMatrix
ype: C=Con	centration, D=Der	oletion, RM	I≍Reduced Matrix, C I LRRs, unless othe	S=Covered or Coa	ated Sand Gra	ains. ² Location; PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Solls ³ :
		able to al	Sandy Redox (2 cm Muck (A10)
Histosol (A Histic Epip	•		Stripped Matrix			Red Parent Material (TF2)
Histic цир Black Histi				Mineral (F1) (exce	pt MLRA 1)	Very Shallow Dark Surface (TF12)
/ Hydrogen	Sulfide (A4)		Loamy Gleyed	Matrix (F2)	•	Other (Explain in Remarks)
	Below Dark Surfac	e (A11)	Depleted Matri			36 41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Surface (A12)		Redox Dark St	• •		³ Indicators of hydrophytic vegetation and wetland hydrology must be present,
_ ,	cky Mineral (S1) yed Matrix (S4)		Depleted Dark Redox Depres			unless disturbed or problematic.
	yed Maurx (34) yer (if present):		Redux Deples	Sions (Fo)		uniess disturbed of problematic.
Type:	yer (ii prosoncy.					
Depth (inch	es):	· · · · · · · · · · · · · · · · · · ·	<u>.</u>			Hydric Soil Present? Yes No No
						riguite don't leaener i es ito
						ryune son research tes no
Remarks:	Y					Tryunc Son Fladenti (165 180
Remarks: YDROLOG	Y ology Indicators					
YDROLOG Vetland Hydr	Y ology Indicators lors (minimum of		ed; check all that app		/ovcont	Secondary Indicators (2 or more required)
POROLOG Vetland Hydrimary Indicat Surface W	Y ology Indicators lors (minimum of later (A1)		Water-Sta	ained Leaves (B9)		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1,
PHOLOG Vetland Hydrimary Indicat Surface W High Wate	Y ology Indicators lors (minimum of later (A1) ir Table (A2)		Water-Sta	ained Leaves (B9) \ 1, 2, 4A, and 4B		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B)
PROLOG Vetland Hydrorimary Indicat Surface Work High Water Saturation	Y ology Indicators lors (minimum of later (A1) ir Table (A2) (A3)		Water-Str MLRA Salt Crus	ained Leaves (B9) \ 1, 2, 4A, and 4B st (B11)		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10)
OROLOG /etland Hydr rimary Indical Surface W High Wate Saturation Water Mar	Y ology Indicators lors (minimum of later (A1) in Table (A2) (A3) iks (B1)		Water-Standard Willer MILRA Salt Crus Aquatic In	ained Leaves (B9) A 1, 2, 4A, and 4B st (B11) nvertebrates (B13)		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
/DROLOG /etland Hydr rimary Indica Surface W High Wate Saturation Water Mar Sediment	Y ology Indicators tors (minimum of dater (A1) or Table (A2) (A3) rks (B1) Deposits (B2)		Water-Sta MLRA Salt Crus Aquatic Is Hydroger	ained Leaves (B9) \ 1, 2, 4A, and 4B st (B11)))	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2)
/DROLOG /etland Hydromary Indicat Surface W High Wate Saturation Water Mar Sediment Drift Depo	Y ology Indicators tors (minimum of vater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3)		Water-Sta MLRA Salt Crus Aquatic Ir Hydroger Oxidized	ained Leaves (B9) A 1, 2, 4A, and 4B; It (B11) Invertebrates (B13) In Sulfide Odor (C1 Rhizospheres alor))) ng Living Roo	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Cots (C3)) Geomorphic Position (D2)
PROLOG Vetland Hydromary Indicator Surface Work High Water Water Man Sediment Drift Depo Algal Mat	Y ology Indicators tors (minimum of dater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4)		Water-Sta MLRA Salt Crus Aquatic Ir Hydroger Oxidized Presence	ained Leaves (B9) A 1, 2, 4A, and 4B; It (B11) Invertebrates (B13) In Sulfide Odor (C1))) ng Living Roo (C4)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (0 ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
/DROLOG /etland Hydromary Indicate Surface W High Water Saturation Water Man Sediment Drift Depo Algal Mater Iron Deposit	Y ology Indicators tors (minimum of dater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4)		Water-Sta MLRA Salt Crus Aquatic Ir Hydroger Oxidized Presence Recent Ir	ained Leaves (B9) A 1, 2, 4A, and 4B; It (B11) Invertebrates (B13) In Sulfide Odor (C1 Rhizospheres alore In Reduced Iron (In In I) ng Living Roo (C4) illed Soils (C6	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Ca) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
PROLOG Vetland Hydra Indical Surface W High Wate Saturation Water Man Sediment Drift Depo Algal Mat Iron Depos Surface S	Y ology Indicators tors (minimum of dater (A1) or Table (A2) or (A3) oks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)	one require	Water-Sta MLRA Salt Crus Aquatic Ir Hydroger Oxidized Presence Recent Ir	ained Leaves (B9) A 1, 2, 4A, and 4B, st (B11) nvertebrates (B13) n Sulfide Odor (C1 Rhizospheres alore of Reduced Iron from Reduction in Ti) ng Living Roo (C4) illed Soils (C6 (D1) (LRR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Ca) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
PROLOG Vetland Hydromary Indicat Surface W High Water Saturation Water Man Sediment Drift Depo Algal Mat Iron Depo Surface St Inundation	Y ology Indicators lors (minimum of later (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oll Cracks (B6)	one require		ained Leaves (B9) A 1, 2, 4A, and 4B st (B11) nvertebrates (B13) n Sulfide Odor (C1 Rhizospheres aloue of Reduced Iron fron Reduction in Tion Stressed Plants) ng Living Roo (C4) illed Soils (C6 (D1) (LRR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Cas (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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YDROLOG Vetland Hydre Primary Indicat Surface W High Water Mace Sediment Drift Depo Algal Mate Iron Depos Surface Sediment Surface Sediment Surface Sediment Surface Sediment Surface Sediment	y ology Indicators tors (minimum of /ater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) of Visible on Aerial /egetated Concavitions:	one require		ained Leaves (B9) A 1, 2, 4A, and 4B at (B11) Invertebrates (B13) In Sulfide Odor (C1 Rhizospheres alore In Reduced Iron Iron Reduction in Tior Stressed Plants Explain in Remarks)) ng Living Roo (C4) illed Soils (C6 (D1) (LRR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Cas (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Verland Hydromary Indicated Surface Western Marks: Water Marks: Water Marks: Water Marks: Water Marks: Drift Deporation Deporation Deporation Deporation Sparsely Viteld Observa	y ology Indicators tors (minimum of /ater (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) of Visible on Aerial /egetated Concav titions: Present?	imagery (l	Water-Sta MLRA Salt Crus Aquatic Ir Hydroger Oxidized Presence Recent Ir Stunted of Other (Existed) (B8) No Depth (Ir	ained Leaves (B9) A 1, 2, 4A, and 4B at (B11) Invertebrates (B13) In Sulfide Odor (C1 Rhizospheres alore In Reduced Iron Iron Reduction in Tior Stressed Plants Explain in Remarks)) ng Living Roo (C4) illed Soils (C6 (D1) (LRR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Cas (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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YDROLOG Wetland Hydre Primary Indicat Surface W High Water Water Man Sediment Drift Depon Algal Mate Iron Depon Surface So Inundation Sparsely \ Field Observa Surface Water Water Table P Saturation Pre (includes capil	y ology Indicators tors (minimum of later (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oll Cracks (B6) of Visible on Aerial legetated Concavitions: Present? resent? sent? lary fringe)	Imagery (I	Water-Sta MLRA Salt Crus Aquatic Ir Hydroger Oxidized Presence Recent Ir Stunted of Other (Extended of the company of	ained Leaves (B9) A 1, 2, 4A, and 4B at (B11) nvertebrates (B13) n Sulfide Odor (C1 Rhizospheres alore of Reduced Iron oron Reduction in Tior or Stressed Plants explain in Remarks) inches):) ng Living Roo (C4) illed Soils (C6 (D1) (LRR A	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Ca) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No
YDROLOG Wetland Hydre Primary Indicat Surface W High Water Water Man Sediment Drift Depon Algal Mate Iron Depon Surface Si Inundation Sparsely \ Field Observa Surface Water Water Table P Saturation Pre (includes capil	y ology Indicators tors (minimum of later (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oll Cracks (B6) of Visible on Aerial legetated Concavitions: Present? resent? sent? lary fringe)	Imagery (I	Water-Sta MLRA Salt Crus Aquatic li Hydroger Oxidized Presence Recent lr Stunted c Other (Extended to the company of	ained Leaves (B9) A 1, 2, 4A, and 4B at (B11) nvertebrates (B13) n Sulfide Odor (C1 Rhizospheres alore of Reduced Iron oron Reduction in Tior or Stressed Plants explain in Remarks) inches):) ng Living Roo (C4) illed Soils (C6 (D1) (LRR A	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Ca) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No
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YDROLOG Wetland Hydre Primary Indicat Surface W High Water Water Man Sediment Drift Depon Algal Mate Iron Depon Surface So Inundation Sparsely \ Field Observa Surface Water Water Table P Saturation Pre (includes capil	y ology Indicators tors (minimum of later (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oll Cracks (B6) of Visible on Aerial legetated Concavitions: Present? resent? sent? lary fringe)	Imagery (I	Water-Sta MLRA Salt Crus Aquatic li Hydroger Oxidized Presence Recent lr Stunted c Other (Extended to the company of	ained Leaves (B9) A 1, 2, 4A, and 4B at (B11) nvertebrates (B13) n Sulfide Odor (C1 Rhizospheres alore of Reduced Iron oron Reduction in Tior or Stressed Plants explain in Remarks) inches):) ng Living Roo (C4) illed Soils (C6 (D1) (LRR A	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Ca) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No

K-L upland, Neur

Project/Site: PSF NI) Corridor	a larno	City/County:	Ciala:	Sampling Date: \o_\ Sampling Point: \2	50-
Applicant/Owner: Linda Howard Ashb	7			_ Sampling rount	
nvestigator(s):				Slope (%	
Landform (hillslope, terrace, etc.):Subregion (LRR):	- i ati			Datum:	
	Lat			ication:	
Soll Map Unit Name:	······				er ann aide anns
그렇게 하고 있는 것 같아 하는 것 같아.				present? Yes t	da.
Are Vegetation, Soil, or Hydrology		and the second s	reded, explain any answ		40
Are Vegetation, Soil, or Hydrology					
SUMMARY OF FINDINGS – Attach site m	ap showing	sampling point l	ocations, transect	s, important featur	es, etc.
Hydrophytic Vegetation Present? Yes	No.	is the Sampled	Aras		
Hydric Soll Present? Yes	No S	within a Wetlar		No No	
Wetland Hydrology Present? Yes	No <u>V</u>				Programme and
Remarks:		(15) (15)			
		Salah Sebia dan Sebiasah Sebiasah	il (protesta) i julio i i i i i i i kan i protesta i i i i		
VEGETATION – Use scientific names of p	lants.	· 19 skulik			
	Absolute	Dominant Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size:)	% Cover	Species? Status	Number of Dominant		(61
1.			That Are OBL, FACW	, or FAC:	_ (A)
3			Total Number of Domi Species Across All Str	Inant 🤈	_ (B)
4.					_ (-/
		= Total Cover	Percent of Dominant S That Are OBL, FACW		(A/B)
Sapling/Shrub Stratum (Plot size:)			Prevalence Index wo	orksheet:	
1.			Total % Cover of:		
2			OBL species		_
	e mantematica, estado		FACW species 100	化双氯化物 医水平二十尺 计可编码 化二氯磺胺苯甲基磺胺苯	<u>' </u>
	经验证 证金		FACU species 5		
		_= Total Cover	FACU species	x4= <u></u> x5=	
Herb Stratum (Plot size:)	100	NI EAUS	Column Totals: W		 (B)
2 nichtsbudg (Solanum	100	W FAC		The second secon	······································
2. <u>Dichishada (Solanna</u>	1	<u> </u>	Prevalence Inde Hydrophytic Vegetal	x = B/A = 2.06	
3.				Hydrophytic Vegetation	
5.			2 - Dominance Te		
6.		S vervente emperimenta esperimenta.	3 - Prevalence In	dex is ≤3,0 ¹	
7 .			4 - Morphological	Adaptations ¹ (Provide su	pporting
8		A A	data in Remar 5 - Wetland Non-	ks or on a separate shee	()
9.				ophytic Vegetation ¹ (Expl	ain)
10.			F 6522	oil and wetland hydrology	
[11] <u>kati kana kana kana kana kana kana kana kan</u>		= Total Cover		sturbed or problematic.	
Woody Vine Stratum (Plot size:)		5 2 . 1	Research Topy		
1. R V AV	1rabe	4 FALL	Hydrophytic		
2.			Vegetation Present? Y	es No	
% Bare Ground in Herb Stratum		_= Total Cover			
Remarks:	······································		<u></u>		
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a company of the control of the cont					1_00000000000

Sampling Point: 1-2 3P-1

	pth needed to document the indicator or confirm	,
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
<u> </u>		
0-16 \$57.54r3/3 -		Clay low
S TO ANIMAL STATE OF THE STATE		

•		
¹ Type: C=Concentration, D=Depletion, Rt	M=Reduced Matrix, CS=Covered or Coated Sand Gr	alns. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to a	II LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	· · · · · ·
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):	and the second s	
Type:	•	1
Depth (inches):	ANTANIA ALAKA .	Hydric Soil Present? Yes No
Remarks:		
		AV .
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	*	
HYDROLOGY		·
HYDROLOGY Wetland Hydrology Indicators:		· ·
	ed; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:		
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one requin	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	 Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) 	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (I	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (I	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (I Sparsely Vegetated Concave Surface Field Observations:	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required one surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Incomparent of the surface of the surfac	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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K-L Welland, N and

roject/Site: PSE NW Corridor		City/County:		Sampling Date: 10-10	7 <u>20</u>
nilicant/Owner 85E			State:	_ Sampling Point: <u>T- 2</u>	<u> </u>
ivestigator(s): Linda Howard, Lind.	· Havard	Section, Township, Ra	nge:		
andform (hillslope, terrace, etc.):		Local relief (concave,	convex, none):	Slope (%)) :
ubregion (LRR):	Lat:		_ Long:	Datum:	
oil Map Unit Name:		and the second of the second	NWI class	fication:	· · · · · · · · · · · · · · · · · · ·
re climatic / hydrologic conditions on the site typica	I for this time of v	ear? Yes No			
re Vegetation, Soll, or Hydrology _				" present? Yes N	No
			eded, explain any ansi		
re Vegetation, Soil, or Hydrology _			100 mg		ite i sagatinase
SUMMARY OF FINDINGS - Attach site	map showing	g sampling point I	ocations, transec	ts, important feature	es, etc.
Hydrophytic Vegetation Present? Hydric Soll Present? Wetland Hydrology Present? Yes Yes	No No No	i in the Campains		<u>√</u> No <u>sa as sa s</u>	
Remarks:		(6) (1) (4) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6			
/EGETATION - Use scientific names o	f plants.		ស៊ាត់មួយស្ថិត្រ () ស្រីក្រុមប្រជាពលរដ្ឋ		
Tree Stratum (Plot size:)	Absolute % Cove	Dominant Indicator Species? Status	Number of Dominan That Are OBL, FACU	i Species	_ (A)
2			Total Number of Dor	ninant \	
3			Species Across All S		_ (B)
4.		= Total Cover	Percent of Dominan That Are OBL, FAC	t Species N, or FAC:	_ (A/B)
Sapling/Shrub Stratum (Plot size:			Prevalence Index v	orksheet:	e e e agreege a s
1.			Total % Cover of		
2.			1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	×1 =	
3.		and the second of the second o	FACW species	×2=	
4.	1455		1	x3=	
5		= Total Cover	FACU species		
Herb Stratum (Plot size:)				x5=	
Ω (1 Λ 1)	100	<u> </u>	Column Totals:	(A) <u>and Market</u>	(D)
2 michtshad (S. da las	mvmr) 10	N FAC	Prevalence Inc	dex = B/A =	
3.			Hydrophytic Veget	ation Indicators:	
4.			Assenta	or Hydrophytic Vegetation	
5	- <u>1,27,7,1</u> - 1,27,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1		2 - Dominance	그리다 그 그 그 사람들은 사람들은 사람들이 되었다.	
6				Index is ≤3.0 ¹	
7	and the second second second second		. 4 - Morphologic	at Adaptations ¹ (Provide si arks or on a separate shee	upporunç et)
8.				n-Vascular Plants ¹	
9				drophytic Vegetation ¹ (Exp	olain)
10	and the second s		Indicators of hydric	soil and wetland hydrolog	
		= Total Cover	be present, unless	disturbed or problematic.	
Woody Vine Stratum (Plot size:	3	= Total Cover			
1			Hydrophytic		
2.			Vegetation	Yes No	
		= Total Cover	Present?	1497 140	-
% Bare Ground in Herb Stratum				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

		to me debi	h needed to docume	FIIL LIE HIGHLALOI	Of CORDINA	mie ansenc	e of indicators.)
Depth (Inches)	Matrix Color (moist)			Features	Loc ²	Tandonai	aligni
			Color (moist)	<u>% Түре'</u>	LOC	Texture	Remarks
0-12	10 4 P 3/1	100 -			·	·	sitty law, som fine
2-14	12	· · · · · · · · · · · · · · · · · · ·			4		
	2.843/2	100	<u> </u>				
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	1 1			· ************************************			•
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			-		***************************************		
	***************************************	·					
	3	-					
Type: C=C	ncentration, D=Dep	letion, RM=	Reduced Matrix, CS=	Covered or Coate	d Sand Grai	ns. ² Lo	cation: PL=Pore Lining, M=Matrix.
lydric Soil	ndicators: (Applic	able to all l	RRs, unless otherw	ise noted.)			ors for Problematic Hydric Soils ³ :
Histosol	(A1) .	_	Sandy Redox (S5)		2 c	m Muck (A10)
Histic Ep	ipedon (A2)		Stripped Matrix (S	66)			Derent Material (TF2)
Black Hi	• •		Loamy Mucky Mir		MLRA 1)	Ver	y Shallow Dark Surface (TF12)
	n Sulfide (A4)		Loamy Gleyed Ma	, ,		Oth	er (Explain in Remarks)
	Below Dark Surfac	e (A11)	Depleted Matrix (I			1	
	rk Surface (A(12) lucky Mineral (S1)	-	Redox Dark Surfa			Indicat	ors of hydrophytic vegetation and
	leyed Matrix (S4)	•	Depleted Dark Su Redox Depression				and hydrology must be present,
	ayer (if present):		redux Depression	15 (F0)	·	une	ss disturbed or problematic.
Type:							
. , , ,					ĺ		7
Denth (inc	hae).				ì	11	
Depth (inc		'nan'	word soil	is. Redo			Present? Yes No
emarks:	rud bank	inas	wot soil	s, Redo			
Remarks:	ory back	inas	wot soil	s, Redo			
YDROLOG	GY Indicators:			s, Redo		3 12	ronskid.
YDROLOG Vetland Hyd	GY Irology Indicators: ators (minimum of o		check all that apply)		y based	3 12	
/DROLOG Vetland Hydrimary Indic Surface \	GY Irology Indicators: ators (minimum of o		check all that apply)	d Leaves (B9) (ex	y based	Seco	ronskid.
YDROLOG Vetland Hyd Irimary Indic Surface N High Wa	GY Irology Indicators: ators (minimum of o Water (A1) ter Table (A2)		check all that apply) Water-Staine MLRA 1,	d Leaves (B9) (e: 2, 4A, and 4B)	y based	Seco	ndary indicators (2 or more required
OROLO Vetland Hyd rimary Indic Surface V High Wal	GY Irology Indicators: ators (minimum of o Vater (A1) ter Table (A2) n (A3)		check all that apply) Water-Staine MLRA 1, Salt Crust (B	d Leaves (B9) (e: 2, 4A, and 4B) 11)	y based	<u>Seco</u> V	ndary indicators (2 or more required Vater-Stained Leaves (B9) (MLRA 1 4A, and 4B) Trainage Patterns (B10)
YDROLOG Vetland Hyd Trimary Indic Surface V High Wai Saturatio Water Mi	GY Irology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1)		check all that apply) Water-Staine MLRA 1, Salt Crust (B	d Leaves (B9) (e: 2, 4A, and 4B) 11) tebrates (B13)	y based	Seco V E	ndary Indicators (2 or more required Vater-Stained Leaves (B9) (MLRA 1 4A, and 4B) Prainage Patterns (B10) Pry-Season Water Table (C2)
/DROLOG /etland Hyd rimary Indic Surface \(\) _ High Wai _ Saturatio _ Water Mai _ Sedimen	GY Irology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2)		check all that apply) Water-Staine MLRA 1, Salt Crust (B Aquatic Inver	d Leaves (B9) (e: 2, 4A, and 4B) 11) tebrates (B13) lfide Odor (C1)	xcept	<u>Seco</u> V E E S	ndary indicators (2 or more required Vater-Stained Leaves (B9) (MLRA 1 4A, and 4B) Trainage Patterns (B10)
/DROLOG Vetland Hydrimary Indic Surface N High Wal Saturatio Water Mi Sedimen Drift Dep	GY Irology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3)		check all that apply) Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhis	d Leaves (B9) (ex 2, 4A, and 4B) 11) tebrates (B13) lfide Odor (C1) zospheres along l	xcept	<u>Seco</u> V E E S	ndary Indicators (2 or more required Vater-Stained Leaves (B9) (MLRA 1 4A, and 4B) Prainage Patterns (B10) Pry-Season Water Table (C2)
/DROLOG Vetland Hydrimary Indic Surface N High Wal Saturatio Water Mi Sedimen Drift Dep Algal Mai	GY Irology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)		check all that apply) Water-Staine MLRA 1, Salt Crust (B: Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I	d Leaves (B9) (e: 2, 4A, and 4B) 11) tebrates (B13) lifide Odor (C1) zospheres along l Reduced Iron (C4	xcept Living Roots	SeconV	ndary indicators (2 or more required Vater-Stained Leaves (B9) (MLRA 1 4A, and 4B) Prainage Patterns (B10) Pry-Season Water Table (C2) Paturation Visible on Aerial Imagery (
/DROLOG /etland Hydrimary Indic Surface N High Wal Saturatio Water Mi Sedimen Drift Dep Algal Mai Iron Dep	GY Irology Indicators: ators (minimum of o Vater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)		check all that apply) Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F	d Leaves (B9) (e: 2, 4A, and 4B) 11) tebrates (B13) ifide Odor (C1) zospheres along l Reduced Iron (C4 Reduction in Tilled	xcept Living Roots) I Soils (C6)	<u>Seco</u> V	ndary indicators (2 or more required Vater-Stained Leaves (B9) (MLRA 1 4A, and 4B) prainage Patterns (B10) ary-Season Water Table (C2) saturation Visible on Aerial Imagery (Beomorphic Position (D2) shallow Aquitard (D3) AC-Neutral Test (D5)
Vetland Hydrimary Indic Surface N High Wal Saturatio Water Mi Sedimen Drift Dep Algal Mai Iron Depo	GY Irology Indicators: ators (minimum of o Vater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6)	ne required;	check all that apply) Water-Staine MLRA 1, Salt Crust (B: Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F	d Leaves (B9) (e: 2, 4A, and 4B) 11) tebrates (B13) lifide Odor (C1) zospheres along l Reduced Iron (C4 Reduction in Tilled ressed Plants (D	xcept Living Roots) I Soils (C6)	<u>Seco</u> V D S S S F R	ndary Indicators (2 or more required Vater-Stained Leaves (B9) (MLRA 1 4A, and 4B) Pry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Seomorphic Position (D2) Shallow Aquitard (D3) AC-Neutral Test (D5) Saised Ant Mounds (D6) (LRR A)
Vetland Hydrimary Indic Surface N High Water Mi Saturatio Water Mi Sedimen Drift Dep Algal Mai Iron Depi Surface S Inundation	GY Irology Indicators: ators (minimum of o Vater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B6) Goil Cracks (B6) n Visible on Aerial Ir	ne required;	check all that apply) Water-Staine MLRA 1, Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhii Presence of I Recent Iron F Stunted or St Other (Explai	d Leaves (B9) (e: 2, 4A, and 4B) 11) tebrates (B13) ifide Odor (C1) zospheres along l Reduced Iron (C4 Reduction in Tilled	xcept Living Roots) I Soils (C6)	<u>Seco</u> V D S S S F R	ndary indicators (2 or more required Vater-Stained Leaves (B9) (MLRA 1 4A, and 4B) prainage Patterns (B10) ary-Season Water Table (C2) saturation Visible on Aerial Imagery (Beomorphic Position (D2) shallow Aquitard (D3) AC-Neutral Test (D5)
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Project/Site: Bl. Sanman:sh- a	The L			State: WA Sampling Point: 66-1
nvestigator(s): Payl Hand 50	Broks	Section To	wnshin Par	State. Samping Fount.
andform (hillslope, terrace, etc.):				
Subregion (LRR):				
Soil Map Unit Name:				NWI classification:
are climatic / hydrologic conditions on the site typical for				
are Vegetation, Soil, or Hydrology				Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	_ naturally pro	blematic?	(If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	p showing	samplin	g point lo	ocations, transects, important features, etc
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Yes	No X		e Sampled in a Wetlan	
Remarks: Bolow everage free if	ants.	(2) / (2) /	and with the state of the state	Market Taylor of the Taylor of
	Absolute	Dominant		Dominance Test worksheet:
1. Alou 5 rubra	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
2				Total Number of Dominant Species Across All Strata:
4		= Total Co	ver	Percent of Dominant Species That Are OBL, FACW, or FAC:i OO (A/B)
Sapling/Shrub Stratum (Plot size: 15	10	V	CAL	Prevalence Index worksheet:
1. Rubus armeniacus	_60		HIO	Total % Cover of: Multiply by:
2			-	OBL species x 1 =
4.				FACW species x 2 =
5. II in the last of the last	Lips-silly -			FAC species x 3 =
2/11	61	= Total Co	ver	FACU species x 4 =
Herb Stratum (Plot size:	00-	V	sau.	UPL species x 5 =
1. KG Phalois own dinaceas	1 000	-1/	FROW	Column Totals: (A) (B)
2. Govisation telmoteia		W	P GW	Prevalence Index = B/A =
3	I TO THE OWNER OF THE	<u> </u>	. 12 [111]	Hydrophytic Vegetation Indicators:
5	A TOTAL PLAN	The state of the state of	All the state of the state of	1 - Rapid Test for Hydrophytic Vegetation
C TRADIUM COMMITTAL DAILY	e Athory	Late / Vinland	Mary Labor	2 - Dominance Test Is >50% 3 - Prevalence Index Is ≤3.0¹
7		- Highir	Maria III she	3 - Prevalence Index is \$3.0 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
8				5 - Wetland Non-Vascular Plants ¹
9		- 6	Property	Problematic Hydrophytic Vegetation (Explain)
11.	***	= Total Cov		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:) 1	T- I BE	94.0		Hydrophytic
2		 = Total Cov	 /er	Vegetation Present? Yes No
% Bare Ground in Herh Stratum				

Sampling Point:	44	OP-	(

Profile Description: (Describe to the de	oth needed to document the indicator or co	onfirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Lo	c ² Texture Remarks
0-9 JOYR 3/15 100		Loan
9-15 love 35/2 95	1801 4/9 5 C 1	~ logn
15-10 lour 4/2 10095	104R4 16 5 C	1 / JOHN 105 SMIPL
15-18 10-11 11 11 11		
	217 2 21 22 2	<u> </u>
New -	3 - 1 - 1	59 a - H -
1T 000 11 D D 11 11 D		and Crains 21 continue DI = Para Lining M=Matrix
Hydric Soil Indicators: (Applicable to a	I=Reduced Matrix, CS=Covered or Coated Sa	and Grains. Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
		2 cm Muck (A10)
Histosol (A1) Histic Epipedon (A2)	Sandy Redox (S5) Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except ML)	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		~
Depth (inches):	<u> </u>	Hydric Soil Present? Yes No
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requir	ed; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require		Secondary Indicators (2 or more required) Ot Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1)	Water-Stained Leaves (B9) (exce	728
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B)	water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (excelent MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required in the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (excelent MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (excellent formula in the company of th	water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (exception of the control of the contro	water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (excellent leaves) MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Scale Stunted or Stressed Plants (D1) (I	water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Scansing Stunted or Stressed Plants (D1) (IB7) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D2) Shallow Aquitard (D3) iils (C6) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Scansing Stunted or Stressed Plants (D1) (IB7) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D2) Shallow Aquitard (D3) iils (C6) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface Field Observations:	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Scansing Stunted or Stressed Plants (D1) (IB7) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D2) Shallow Aquitard (D3) iils (C6) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Smrite City/County: Krokeland Sampling Point: _ Applicant/Owner: Section, Township, Range: _ Investigator(s): For Hamidi Local relief (concave, convex, none): _______ Slope (%): ________ Landform (hillslope, terrace, etc.): _ Subregion (LRR): Datum: I at NWI classification: Soil Map Unit Name: ___ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? (If needed, explain any answers in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes is the Sampled Area Hydric Soil Present? No within a Wetland? Wetland Hydrology Present? **VEGETATION – Use scientific names of plants.** Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: ________ % Cover Species? Status Number of Dominant Species 1. Alyus appron That Are OBL. FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species x2 =FACW species FAC species FACU species __ = Total Cover UPL species Herb Stratum (Plot size: Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index Is ≤3.01 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants1 Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Total Cover Woody Vine Stratum (Plot size: ____ **Hydrophytic** Vegetation Present? = Total Cover % Bare Ground in Herb Stratum Remarks: Photos=266-268

Profile Description			ii iiccaca to accai		iidiodioi	01 001111111	tile absence c		.,
Depth	Matrix			x Feature	s				
(inches) Col	lor (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture		Remarks
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	IMANS .		100 100 100		-				
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8-16 love	237		754844		-	1/11	Clay barn	90	gravel
2010			1046/1	_3	D				U
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. 33 14		<u> </u>						ă.	
¹Type: C=Concentr	ation, D≕Dep	oletion, RM=	Reduced Matrix, CS	S=Covered	d or Coate	ed Sand G	rains. ² Loca	ation: PL=Po	ore Lining, M=Matrix.
Hydric Soil Indicate						= 7			matic Hydric Soils ³ :
Histosol (A1)			Sandy Redox (S5)			2 cm	Muck (A10)	
Histic Epipedon	(A2)	3	Stripped Matrix					Parent Mate	ial (TF2)
Black Histic (A3			Loamy Mucky N		1) (excep	t MLRA 1)			k Surface (TF12)
Hydrogen Sulfic			Loamy Gleyed			•		r (Explain in	
Depleted Below	/ Dark Surfac	e (A11)	Depleted Matrix	(F3)					
Thick Dark Surf	face (A12)		Redox Dark Su	rface (F6)			³ Indicator	s of hydroph	ytic vegetation and
Sandy Mucky M	lineral (S1)		Depleted Dark	Surface (F	7)		wetlan	d hydrology	must be present,
Sandy Gleyed N			Redox Depress	ions (F8)			unless	disturbed or	problematic.
Restrictive Layer (if present):								
Туре:									
Depth (inches): _			The Control				Hydric Soil F	Present?	Yes No
Remarks:/			lonce of g	anst	Em il	- 100	•	-	
HADBOI OGA									*.
HYDROLOGY									
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Wetland Hydrology Primary Indicators (i Surface Water of High Water Table Saturation (A3) Water Marks (B) Sediment Depoil Drift Deposits (I) Algal Mat or Criminal Iron Deposits (B) Surface Soil Criminal Sparsely Veget Field Observations Surface Water Pres	minimum of c (A1) ble (A2) B1) bits (B2) B3) ust (B4) B5) acks (B6) ble on Aerial stated Concav s:	Imagery (B7 e Surface (E	Water-Sta	ined Leav 1, 2, 4A, 3 (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reduct r Stressed plain in Re	es (B13) dor (C1) eres along ed Iron (C ion in Tille I Plants (D emarks)	Living Roo 4) ed Soils (Co 01) (LRR A	W: Dr Dr Sa ots (C3) Ge Sh 6) FA	ater-Stained 4A, and 4B ainage Patte y-Season W aturation Visi eomorphic P aallow Aquita AC-Neutral T aised Ant Mo	Leaves (B9) (MLRA 1, 2,) erns (B10) ater Table (C2) ble on Aerial Imagery (C9) osition (D2) erd (D3) est (D5) unds (D6) (LRR A)
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Primary Indicators (Surface Water (High Water Tab. Saturation (A3) Water Marks (B. Sediment Deporation (B) Iron Deposits (B) Surface Soil Cr. Inundation Visit Sparsely Veget Field Observations Surface Water Presert Water Table Presert	minimum of c (A1) ble (A2) B1) bits (B2) B3) ust (B4) B5) acks (B6) ble on Aerial stated Concav s:	Imagery (B7	Water-Sta	ined Leav 1, 2, 4A, 3 (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reduct r Stressed plain in Re	es (B13) dor (C1) eres along ed Iron (C ion in Tille I Plants (D emarks)	Living Roo 4) ed Soils (Co 01) (LRR A	W: Dr Dr Sa ots (C3) Ge Sh 6) FA	ater-Stained 4A, and 4B ainage Patte y-Season W aturation Visi eomorphic P allow Aquita AC-Neutral T aised Ant Mo ost-Heave H	Leaves (B9) (MLRA 1, 2,) perms (B10) ater Table (C2) ble on Aerial Imagery (C9) position (D2) perd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)
Wetland Hydrology Primary Indicators (i Surface Water of High Water Table Saturation (A3) Water Marks (B) Sediment Depoil of Deposits (I) Algal Mat or Criming Iron Deposits (I) Surface Soil Criming Inundation Visited Sparsely Veget Field Observations Surface Water Preservations	minimum of c (A1) ble (A2) B1) sits (B2) B3) ust (B4) B5) acks (B6) ble on Aerial stated Concav s: sent? ringe)	Imagery (B7 re Surface (B res	Water-Sta	ined Leav 1, 2, 4A, 3 (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re aches):	es (B13) dor (C1) eres along ed Iron (C ion in Tille I Plants (D emarks)	Living Roo 4) ed Soils (Co 01) (LRR A	W: Dr Dr Sa ots (C3) Ge Sh 6) FA \(\) Fr	ater-Stained 4A, and 4B ainage Patte y-Season W aturation Visi eomorphic P allow Aquita AC-Neutral T aised Ant Mo ost-Heave H	Leaves (B9) (MLRA 1, 2,) perms (B10) ater Table (C2) ble on Aerial Imagery (C9) position (D2) perd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)
Primary Indicators (Surface Water (High Water Tab. Saturation (A3) Water Marks (B. Sediment Depo. Drift Deposits (I. Algal Mat or Cr. Iron Deposits (I. Surface Soil Cr. Inundation Visil Sparsely Veget Field Observations Surface Water Prese Water Table Presert Saturation Present? (includes capillary fi	minimum of c (A1) ble (A2) B1) sits (B2) B3) ust (B4) B5) acks (B6) ble on Aerial stated Concav s: sent? ringe)	Imagery (B7 re Surface (B res	Water-Sta	ined Leav 1, 2, 4A, 3 (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re aches):	es (B13) dor (C1) eres along ed Iron (C ion in Tille I Plants (D emarks)	Living Roo 4) ed Soils (Co 01) (LRR A	W: Dr Dr Sa ots (C3) Ge Sh 6) FA \(\) Fr	ater-Stained 4A, and 4B ainage Patte y-Season W aturation Visi eomorphic P allow Aquita AC-Neutral T aised Ant Mo ost-Heave H	Leaves (B9) (MLRA 1, 2,) perms (B10) ater Table (C2) ble on Aerial Imagery (C9) position (D2) perd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)
Wetland Hydrology Primary Indicators (i Surface Water of High Water Table Saturation (A3) Water Marks (B) Sediment Depoil of Deposits (I) Algal Mat or Crolling Iron Deposits (I) Surface Soil Crollinundation Visil Sparsely Veget Field Observations Surface Water Preser Water Table Preser Saturation Present? (includes capillary fire	minimum of c (A1) ble (A2) B1) sits (B2) B3) ust (B4) B5) acks (B6) ble on Aerial stated Concav s: sent? ringe)	Imagery (B7 re Surface (B res	Water-Sta	ined Leav 1, 2, 4A, 3 (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re aches):	es (B13) dor (C1) eres along ed Iron (C ion in Tille I Plants (D emarks)	Living Roo 4) ed Soils (Co 01) (LRR A	W: Dr Dr Sa ots (C3) Ge Sh 6) FA \(\) Fr	ater-Stained 4A, and 4B ainage Patte y-Season W aturation Visi eomorphic P allow Aquita AC-Neutral T aised Ant Mo ost-Heave H	Leaves (B9) (MLRA 1, 2,) perms (B10) ater Table (C2) ble on Aerial Imagery (C9) position (D2) perd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)
Primary Indicators (Surface Water (High Water Tab. Saturation (A3) Water Marks (B. Sediment Depo. Drift Deposits (I. Algal Mat or Cr. Iron Deposits (I. Surface Soil Cr. Inundation Visil Sparsely Veget Field Observations Surface Water Prese Water Table Presert Saturation Present? (includes capillary fi	minimum of c (A1) ble (A2) B1) sits (B2) B3) ust (B4) B5) acks (B6) ble on Aerial stated Concav s: sent? ringe)	Imagery (B7 re Surface (B res	Water-Sta	ined Leav 1, 2, 4A, 3 (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re aches):	es (B13) dor (C1) eres along ed Iron (C ion in Tille I Plants (D emarks)	Living Roo 4) ed Soils (Co 01) (LRR A	W: Dr Dr Sa ots (C3) Ge Sh 6) FA \(\) Fr	ater-Stained 4A, and 4B ainage Patte y-Season W aturation Visi eomorphic P allow Aquita AC-Neutral T aised Ant Mo ost-Heave H	Leaves (B9) (MLRA 1, 2,) perms (B10) ater Table (C2) ble on Aerial Imagery (C9) position (D2) perd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)
Primary Indicators (Surface Water (High Water Tab. Saturation (A3) Water Marks (B. Sediment Depo. Drift Deposits (I. Algal Mat or Cr. Iron Deposits (I. Surface Soil Cr. Inundation Visil Sparsely Veget Field Observations Surface Water Prese Water Table Presert Saturation Present? (includes capillary fi	minimum of c (A1) ble (A2) B1) sits (B2) B3) ust (B4) B5) acks (B6) ble on Aerial stated Concav s: sent? ringe)	Imagery (B7 re Surface (B res	Water-Sta	ined Leav 1, 2, 4A, 3 (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re aches):	es (B13) dor (C1) eres along ed Iron (C ion in Tille I Plants (D emarks)	Living Roo 4) ed Soils (Co 01) (LRR A	W: Dr Dr Sa ots (C3) Ge Sh 6) FA \(\) Fr	ater-Stained 4A, and 4B ainage Patte y-Season W aturation Visi eomorphic P allow Aquita AC-Neutral T aised Ant Mo ost-Heave H	Leaves (B9) (MLRA 1, 2,) perms (B10) ater Table (C2) ble on Aerial Imagery (C9) position (D2) perd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)
Primary Indicators (Surface Water (High Water Tab. Saturation (A3) Water Marks (B. Sediment Depo. Drift Deposits (I. Algal Mat or Cr. Iron Deposits (I. Surface Soil Cr. Inundation Visil Sparsely Veget Field Observations Surface Water Prese Water Table Presert Saturation Present? (includes capillary fi	minimum of c (A1) ble (A2) B1) sits (B2) B3) ust (B4) B5) acks (B6) ble on Aerial stated Concav s: sent? ringe)	Imagery (B7 re Surface (B res	Water-Sta	ined Leav 1, 2, 4A, 3 (B11) vertebrate Sulfide O Rhizosphe of Reduce on Reducti r Stressed plain in Re aches):	es (B13) dor (C1) eres along ed Iron (C ion in Tille I Plants (D emarks)	Living Roo 4) ed Soils (Co 01) (LRR A	W: Dr Dr Sa ots (C3) Ge Sh 6) FA \(\) Fr	ater-Stained 4A, and 4B ainage Patte y-Season W aturation Visi eomorphic P allow Aquita AC-Neutral T aised Ant Mo ost-Heave H	Leaves (B9) (MLRA 1, 2,) perms (B10) ater Table (C2) ble on Aerial Imagery (C9) position (D2) perd (D3) est (D5) unds (D6) (LRR A) ummocks (D7)

A series of the		Sampling Date: 6-20-19
Applicant/Owner: PSE		State: WA Sampling Point: KL-St
nvestigator(s): 1+am.d., Blooks	Section Township	Range.
andform (hillslope, terrace, etc.): Trrace		ave, convex, none): Cencova Slope (%):
		Long: Datum:
		NWI classification: PEMB
Soil Map Unit Name:		
Are climatic / hydrologic conditions on the site typical for		
Are Vegetation, Soil, or Hydrology		Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic? ((If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	ap showing sampling poi	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Wetland Fydrology Present?	No Is the Sam	pled Area etland? Yes No
Remarks: pricip, below normal	1 Photos Z	71-273
VEGETATION – Use scientific names of pl	lants.	The Date of the Court of the Co
3.1	Absolute Dominant Indica	
Tree Stratum (Plot size: 30'	% Cover Species? Statu	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. 3.		Total Number of Dominant Species Across All Strata: (B)
4	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 15')		Prevalence Index worksheet:
1. Rubus bifrons		Total % Cover of: Multiply by:
2		OBL species x 1 =
4. Harting the real Chapter and the same of		FACW species x 2 =
5.	American Market Control of the Asset	FAC species x 3 =
0	3 = Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 5		UPL species x 5 =
1. Phalaris arondiracea	100 V 1-H	Column Totals: (A) (B)
2. The country trade of the country	of the search sets for an	Prevalence Index = B/A =
3. Compatibility and consider the section	my Pares I are content/oversity to	Hydrophytic Vegetation Indicators:
4. (GU) white we made	LA STREET STREET	Trapid restrict Hydrophytic regulation
5	A THE CASE OF STREET	2 - Dominance Test is >50%
0.	Devivorit of thems	3 - Prevalence Index is ≤3.0 ¹
7		4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8		5 - Wetland Non-Vascular Plants ¹
10.		Problematic Hydrophytic Vegetation ¹ (Explain)
11 11	A	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	= Total Cover	
1.	Other day of the property	Hydrophytic
2.		Vegetation
	10.07	Present? Yes No No
% Bare Ground in Herb Stratum	= Total Cover	

activities das

SOIL

Sampling Point: KL-SP-3

Depth (inches) Color (moist) % D-6 FOTO 10472 97 100 10472 97 100 10472 97 100 100 100 100 100 100 100 100 100 10	LRRs, unless otherwise not Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F8) Redox Depressions (F8)	Type¹ Loc² C M C M d or Coated Sand red.) 1) (except MLRA 2)	Grains. *Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils*: 2 cm Muck (A10) Red Parent Material (TF2)
Type: C=Concentration, D=Depletion, RM Hydric Soil Indicators: (Applicable to all 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) Restrictive Layer (if present): Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Reduced Matrix, CS=Covered LRRs, unless otherwise not Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F2 Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F8) Redox Depressions (F8)	d or Coated Sand	Grains. *Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils*: _ 2 cm Muck (A10) _ Red Parent Material (TF2) _ Very Shallow Dark Surface (TF12) _ Other (Explain in Remarks) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
1 Type: C=Concentration, D=Depletion, RM Hydric Soil Indicators: (Applicable to all 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) Restrictive Layer (if present): Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	=Reduced Matrix, CS=Covered LRRs, unless otherwise not Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F Loamy Gleyed Matrix (F2) Y Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F8) Redox Depressions (F8)	d or Coated Sand ted.) 1) (except MLRA 2)	Grains. *Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils*: 2 cm Muck (A10) Red Parent Material (TF2) Other (Explain in Remarks) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
¹Type: C=Concentration, D=Depletion, RM Hydric Soil Indicators: (Applicable to all Histosol (A1) Histic Epipedon (A2) Black Histlc (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (If present): Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required and the second content of the second conten	=Reduced Matrix, CS=Covered LRRs, unless otherwise not Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F Loamy Gleyed Matrix (F2) Y Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F8) Redox Depressions (F8)	d or Coated Sand ted.) 1) (except MLRA 2)	Grains. *Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils*: 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Hydric Soil Indicators: (Applicable to all Histosol (A1) Histic Epipedon (A2) Black Histlc (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (If present): Type: Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	=Reduced Matrix, CS=Covered LRRs, unless otherwise not Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F2 Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F8) Redox Depressions (F8)	d or Coated Sand ted.) 1) (except MLRA 2)	Grains. *Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils*: 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Hydric Soil Indicators: (Applicable to all 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) Restrictive Layer (If present): Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	LRRs, unless otherwise not Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F8) Redox Depressions (F8)	1) (except MLRA 2)) F7)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Depth (inches):			Hydric Soil Present? Yes X No
Print (inches): YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)			Hydric Soil Present? Yes X No
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)			nyulic soli Fresentr Tes 7.5 NO
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)			
41 144 (6 (6)	Water-Stained Leav MLRA 1, 2, 4A, Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe	and 4B) es (B13) Odor (C1) eres along Living F	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Geomorphic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduce	ed Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduct		
 Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (E Sparsely Vegetated Concave Surface 			R A) Rajsed Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Field Observations:	🗸 🖚		
	No Depth (Inches):		,
	No Depth (inches):		V
Saturation Present? Yes (includes capillary fringe)	No _ Depth (inches):	w	etland Hydrology Present? Yes X No 🔼
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, p	orevious inspection	s), if available:
			A
Remarks;			
Surface Sar	turation a	255 m	d in early growing said

Project/Site: PSE Sammumi Sh - Jug	Wito Ci	ty/County:	Cland Sampling Date: 6-20-1
Applicant/Owner: PSE	- 10	MT 10	State: WH Sampling Point: KL-ST
nvestigator(s): Hamidi, Brooks			
andform (hillslope, terrace, etc.): Twrace		ocal relief (concave,	convex, none): Flat Slope (%): 2
Subregion (LRR):A			Long: Datum:
Soil Map Unit Name:	- KW	2 11 3	NWI classification: UP laud
are climatic / hydrologic conditions on the site typical for	this time of year	? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
			ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No 💢	Is the Sampled within a Wetlar	per to the control of
Remarks:	11 17 17 1	1 1 2 W	50 N. A.
/EGETATION – Use scientific names of pl	ants.	ITAL BUT LES / MI	and 2 UNS World - Nus verse
Tree Stratum (Plot size: 30')		Dominant Indicator Species? Status	Dominance Test worksheet:
1	76 COVE	Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.			Total Number of Dominant
3.			Species Across All Strata: (B)
4			Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15')	=	= Total Cover	That Are OBL, FACW, or FAC: (A/B)
1. Rubus bi-froms	70	V FAC	Prevalence Index worksheet:
2.			
3.			FACW species x 2 =
4.			FAC species x 3 =
5.		p. 19.6	FACU species x 4 =
Herb Stratum (Plot size: 5)		Total Cover	UPL species x 5 =
1. Phalaris aroudiNacca	30	V FACW	Column Totals: (A) (B)
2. Equisetum telmateia	5	FACW	Prevalence Index = B/A =
3.	Cartings - From Co	propher of the part	Hydrophytic Vegetation Indicators:
4. Shi at Ware a deep	112	Japan Barry	1 - Rapid Test for Hydrophytic Vegetation
5.	2 12 1	And Alberta	△ 2 - Dominance Test is >50%
6. A CAN A GASHAWA STATE OF THE	F - 1 - 10 - 1	or Space 2 to an	3 - Prevalence Index is ≤3.0 ¹
7		医 10年77年18月日	4 - Morphological Adaptations ¹ (Provide supporting
8			data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants ¹
9			5 - Wetland Non-Vascular Plants Problematic Hydrophytic Vegetation ¹ (Explain)
10		- 101 An	¹Indicators of hydric soil and wetland hydrology must
11. Mark the part threet the street and the street	25 -	Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	7.7	Total Cover	The second secon
1		ment - mindage	Hydrophytic
'			Vegetation
2.			
		Total Cover	Present? Yes No No

Profile Description: (Describe to the depth needed to document the indicator or co	nfirm the absence of indicators.)
Depth Matrix Redox Features	A real age of the service of the
(inches) Color (moist) % Color (moist) % Type Lo	c ² Texture Remarks
0-5 164/(3/3 100	- surdaylar 55 gr,
5-12 loyf 3/3 low	- Lowery Colette Sout
12-15 toyf 3/2 98 104R 3/3 Z C	n Sovideflan 100 grown
15-18 254 511 90 1048 41 B 10 C N	
1) 10 013 31 10 07 10 0	204111 34 12
<u> </u>	
	(A.E
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sal	nd Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2) Stripped Matrix (S6)	Red Parent Material (TF2) RA 1) Very Shallow Dark Surface (TF12)
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLF Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3)	Other (Explain in Nemarks)
Thick Dark Surface (A12) — Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4) Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
	3
	to the second of the second
HYDROLOCY	CONF. C. Carl
HYDROLOGY	CHECK STATE
Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required) Water Steined Legyes (R0) (MLRA 1.2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except	water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Wetland Hydrology Indicators: Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Wetland Hydrogen Sulfide Odor (C1)	water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (exception of the property of the property of the property of the property of the primary Indicators (B9) (exception of the primary Indica	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) g Roots (C3) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (exception of the property of	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (exception of the property of the prope	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (exceptions) High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Livin Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled So Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (L Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (exceptions) High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Livin Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled So Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (L Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) ils (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (exception of the property of the prope	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) ils (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (exception of the property of the prope	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) ils (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (exceptions) High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Livin Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Sole Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (L Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) ils (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (exceptions) High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Livin Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Sole Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (L Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) ils (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (exceptions) High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Livin Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Sole Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (L Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) ils (C6) FAC-Neutral Test (D5) RR A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No

Project/Site: PSG Samurish		intains, valleys, and Coast Region
	City/County	Sampling Date: 6/20//9
Applicant/Owner: VSF Rule Investigator(s): SVB Rule	11 1	State: WA Sampling Point: SP-
		_
		convex, none): Slope (%): 2-5
Subregion (LRR):	Lat:	Long: Datum:
Soil Map Unit Name:	ş	NWI classification: PFOC
Are climatic / hydrologic conditions on the site type	pical for this time of year? Yes No _	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolog	y significantly disturbed? Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrolog	y naturally problematic? (If n	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach s	ite map showing sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes _ Hydric Soil Present? Yes _ Wetland Hydrology Present? Yes _	No Is the Sample	. /
Remarks: drive thou Nova Wetland	d HF (nevor fiel	(8)
VEGETATION – Use scientific names	s of plants.	-
	Absolute Dominant Indicator	Dominance Test worksheet:
1. Prostice Willow (Sortix)		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Special Dan Allegar		Total Number of Dominant Species Across All Strata: (B)
4. Salix Soveriana		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:		Prevalence Index worksheet:
1. Spicer domasii		Total % Cover of: Multiply by:
2. Rubis bilions		OBL species x 1 =
3		FACW species x 2 =
5.		FAC species x 3 =
	75 = Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)	- 1111	UPL species x 5 =
1. Runary regions	COY CAC	Column Totals: (A) (B)
2. Nothe (Malan (Crtico D)		Prevalence Index = B/A =
3. Sphivm		Hydrophytic Vegetation Indicators:
4. Linde For CAPLycism as	Seponta D IN PAL	
5.		2 - Dominance Test is >50%
6		3 - Prevalence Index is ≤3.0¹
7		4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
9		5 - Wetland Non-Vascular Plants ¹
10.		Problematic Hydrophytic Vegetation¹ (Explain)
11		¹ Indicators of hydric soil and wetland hydrology must
	90 = Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:		1
1		Hydrophytic
2		Vegetation Present? Yes No
% Bare Ground in Herb Stratum	= Total Cover	
Remarks:		
Photos 250-25		
247-249	9 - General Wetland	

Depth Matrix (inches) Color (moist), % O-9 10 12 100	Redox Features	
2 20	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-20 1 7/2		Peat
9-20 Joyk 2/2 100		MUCL O hoxizors
	<u> </u>	
	Reduced Matrix, CS=Covered or Coated Sand G	rains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all I	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	_ , , ,
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Matrix (F3) Redox Dark Surface (F6)	31
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		diffed distarbed of problematic.
Туре:		
Depth (inches):		Hydric Soil Present? Yes X No
Remarks:		
HYDROLOGY	- A	
Wetland Hydrology Indicators:		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required	check all that apply)	Secondary Indicators (2 or more required)
1977	check all that apply) Water-Stained Leaves (B9) (except	Secondary Indicators (2 or more required) Value Water-Stained Leaves (B9) (MLRA 1, 2,
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)		
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) ✓ Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roce	✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) ✓ Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B) Field Observations:	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (BField Observations: Surface Water Present? Yes N	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (BField Observations: Surface Water Present? Water Table Present?	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) □ Drainage Patterns (B10) □ Dry-Season Water Table (C2) □ Saturation Visible on Aerial Imagery (C9) □ Shallow Aquitard (D2) □ Shallow Aquitard (D3) □ FAC-Neutral Test (D5) □ Raised Ant Mounds (D6) (LRR A) □ Frost-Heave Hummocks (D7)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (BField Observations: Surface Water Present? Water Table Present? Yes No	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B7) Field Observations: Surface Water Present? Water Table Present? Yes Note Table Present?	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3)
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Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B) Field Observations: Surface Water Present? Water Table Present? Yes Water Table Present? Yes Includes capillary fringe) Describe Recorded Data (stream gauge, more	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B) Field Observations: Surface Water Present? Water Table Present? Yes Water Table Present? Yes No Saturation Present? Yes No Includes capillary fringe) Describe Recorded Data (stream gauge, more	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B) Field Observations: Surface Water Present? Water Table Present? Yes Water Table Present? Yes Note The Mark (B1) Surface Water Present? Yes Note Table Present? Yes Note Table Present? Yes Note Table Present? Note Table P	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3)

			ntains, Valleys, and Coast Region
Project/Site: PSE Samman, Sh. Applicant/Owner: PSE.	- JUEN 2 6 City/C	County: Kirk	LKWd Sampling Date: 6-20=/
Applicant/Owner: 75 =			State: WA Sampling Point: SP-Z
Law Ci Brook	Conti	an Taumahin Da	nge:
investigator(s): Francisco Color	Secur	on, rownship, ka	rige:
Landform (hillslope, terrace, etc.):	Loca	! relief (concave,	convex, none): CONVCA Slope (%): 5
Subregion (LRR):	Lat:		Long: Datum'
Soil Map Unit Name:			NWI classification: Ufland
Are climatic / hydrologic conditions on the site typical	for this time of year? Y	'es No _	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology			'Normal Circumstances" present? YesX No
Are Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site	map showing san	npling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	NoX		
Hydric Soil Present? Yes		Is the Sampled	,
Wetland Hydrology Present? Yes	NoX	within a Wetlar	id? YesNo
Remarks:			
VEGETATION – Use scientific names of	f plants.		
Tree Stratum (Plot size:)	Absolute Don <u>% Cover</u> Spe	ninant Indicator	Dominance Test worksheet:
		cies? Status	Number of Dominant Species 2
1. This bosindon			That Are OBL, FACW, or FAC:(A)
2.			Total Number of Dominant
3			Species Across All Strata: (B)
4			Percent of Dominant Species That Are ORL FACW or FAC: (A/R)
Sapling/Shrub Stratum (Plot size: / (= To		That Are OBL, PACVV, OF PAC. (A/D)
1. Salix scaleriana	10	Y FAC	Prevalence Index worksheet:
2			
3			OBL species x 1 =
4			FACW species x 2 =
5			FAC species x 3 =
	= To	otal Cover	FACU species x 4 =
Herb Stratum (Plot size: 5) 1. Equipment teleprotein		Al land	UPL species x 5 =
			Column Totals: (A) (B)
2. Polypia Tellines good 810		N FACU	Prevalence Index = B/A =
3. Urtila Dioica		EAC	Hydrophytic Vegetation Indicators:
/	15)	FAC	
5			✓ 2 - Dominance Test is >50%
6			3 - Prevalence Index is ≤3.0¹
7			4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8			5 - Wetland Non-Vascular Plants ¹
9			
10			Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
11	50		be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	= To	tal Cover	
1			Hydrophytic
2.			Hydrophytic Vegetation
		tal Cover	Present? Yes No
% Bare Ground in Herb Stratum			
Remarks: Salik losiala	rested i	in wetler	d
Photo 5 - 254	21-/		
	7 6000		

Profile Description: (Describe to the de	oth needed to document the indicator or co	onfirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %		DC ² Texture Remarks
0-5 104R3/2 100		- day loan
5-14 104/R 4/2,5 10		- clay loan B& gravels
¹Type: C=Concentration, D=Depletion, RM	1=Reduced Matrix, CS=Covered or Coated Sa	and Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to al		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except ML	RA 1) Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No _X
HYDROLOGY		
Wetland Hydrology Indicators:	and the sale all the share and the	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one requin		Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (excep	
High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)		ng Roots (C3) Geomorphic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled So	
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (I	
Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface	· · · · · · · · · · · · · · · · · · ·	Frost-Heave Hummocks (D7)
Field Observations:		
Surface Water Present? Yes	No Depth (inches):	
	No Depth (inches):	
	No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)	nonitoring well, aerial photos, previous inspec	, , , , , , , , , , , , , , , , , , , ,
Remarks:		

AECOM Report Environment

Appendix C

Wetland Rating Forms

AECOM Report Environment

Redmond

Wetland Rating Forms

RATING SUMMARY – Western Washington

Name of wetland (or ID #): $R - A$	Date of site visit: 4/15/14
Name of wetland (or ID #): R-A Rated by K.Anwan/G. Maj ia	Trained by Ecology? \underline{X} YesNo Date of training $\frac{4}{201}$
HGM Class used for rating Riverine	Date of site visit: \(\frac{1}{5} \) (\(\frac{1}{5} \) _ Trained by Ecology?\(\frac{X}{5} \) YesNo Date of training \(\frac{1}{2} \) (6\(\hrac{1}{2} \) Wetland has multiple HGM classes?YN
NOTE: Form is not complete witho Source of base aerial photo/ma	put the figures requested (figures can be combined).
OVERALL WETLAND CATEGORY	(based on functions \(\sqrt{\left} \) or special characteristics \(\sqrt{\left} \))

1. Category of wetland based on FUNCTIONS

	_Category I - Total score = 23 - 27
X	_Category II - Total score = 20 - 22
	_Category III - Total score = 16 - 19
	_Category IV - Total score = 9 - 15

FUNCTION		nprov ter Q	ing uality		ydrola			Habita	ıt	
		_			Circle t	he a	prop	riate ra	tings	1
Site Potential	Н	M	L	Н	M	L	Н	M	L	
Landscape Potential	H	М	L	B	М	L	Н	M	L	
Value	Œ	М	L	Н	M	L	Н	M	L	TOTAL
Score Based on Ratings		8			7			6		21

Score for each function based on three ratings (order of ratings is not important)

9 = H,H,H

8 = H,H,M 7 = H,H,L 7 = H,M,M 6 = H,M,L 6 = M,M,M

5 = H,L,L 5 = M,M,L 4 = M,L,L 3 = 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	ı
Old Growth Forest	I
Coastal Lagoon	I II
Interdunal	I II III IV
None of the above	V

Maps and figures required to answer questions correctly for Western Washington

Depressional Wetlands

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

Riverine Wetlands

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

Lake Fringe Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	L1.1, L4.1, H1.1, H1.4	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of area within 150 ft of the wetland (can be added to another figure)	L2.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and undisturbed habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	L3.1, L3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	L 3.3	

Slope Wetlands

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

HGM Classification of Wetlands in Western Washington

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

If the hydrologic criteria listed in each question do not apply to the entire unit being rated, you

	probably have a unit with questions 1-7 apply, and	n multiple HGM classes. In this case, identify which hydrologic criteria in go to Question 8.
1.	Are the water levels in	the entire unit usually controlled by tides except during floods?
	NO – go to 2	YES - the wetland class is Tidal Fringe - go to 1.1
1	.1 Is the salinity of the v	vater during periods of annual low flow below 0.5 ppt (parts per thousand)?
		e classified as a Freshwater Tidal Fringe use the forms for Riverine wetlands. If it age it is an Estuarine wetland and is not scored. This method cannot be used to
2.		t is flat and precipitation is the only source (>90%) of water to it. Groundwater ff are NOT sources of water to the unit.
	NO – go to 3 If your wetland can be c	YES – The wetland class is Flats lassified as a Flats wetland, use the form for Depressional wetlands.
3.	The vegetated part o	d unit meet all of the following criteria? If the wetland is on the shores of a body of permanent open water (without any eat any time of the year) at least 20 ac (8 ha) in size; pen water area is deeper than 6.6 ft (2 m).
	NO – go to 4	YES - The wetland class is Lake Fringe (Lacustrine Fringe)
4.	The wetland is on a The water flows thr seeps. It may flow s	l unit meet all of the following criteria? slope (<i>slope can be very gradual</i>), ough the wetland in one direction (unidirectional) and usually comes from absurface, as sheetflow, or in a swale without distinct banks, we wetland without being impounded.
	NO – go to 5	YES - The wetland class is Slope
		bes not pond in these type of wetlands except occasionally in very small and behind hummocks (depressions are usually <3 ft diameter and less than 1 ft
5.	The unit is in a valle stream or river,	unit meet all of the following criteria? y, or stream channel, where it gets inundated by overbank flooding from that ng occurs at least once every 2 years.

Wetland name or number A-A

NO – go to 6 **YES** – The wetland class is **Riverine NOTE:** The Riverine unit can contain depressions that are filled with water when the river is not flooding

6. Is the entire wetland unit in a topographic depression in which water ponds, or is saturated to the surface, at some time during the year? This means that any outlet, if present, is higher than the interior of the wetland.

NO - go to 7

YES - The wetland class is Depressional

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

NO - go to 8

YES – The wetland class is **Depressional**

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

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

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

RIVERINE AND FRESHWATER TIDAL FRINGE WETLANDS	
Water Quality Functions - Indicators that the site functions to improve water quality	
R 1.0. Does the site have the potential to improve water quality?	
R 1.1. Area of surface depressions within the Riverine wetland that can trap sediments during a flooding event:	loth im2
Depressions cover >3/4 area of wetland points = 8	Internitión
Depressions cover > ½ area of wetland points = 4	in number
Depressions present but cover < ½ area of wetland	1
No depressions present points = 0	am edi d
R 1.2. Structure of plants in the wetland (areas with >90% cover at person height, not Cowardin classes)	
Trees or shrubs $> \frac{2}{3}$ area of the wetland points = 8	-721
Trees or shrubs $> \frac{1}{3}$ area of the wetland points = 6	8
Herbaceous plants (> 6 in high) > $^{2}/_{3}$ area of the wetland points = 6	
Herbaceous plants (> 6 in high) > $\frac{1}{3}$ area of the wetland points = 3	1971 -
Trees, shrubs, and ungrazed herbaceous $< \frac{1}{3}$ area of the wetland points = 0	
Total for R 1 Add the points in the boxes above	10
Rating of Site Potential If score is: 12-16 = H 56-11 = M 0-5 = L Record the rating on the	he first page
R 2.0. Does the landscape have the potential to support the water quality function of the site?	1,7 >0
R 2.1. Is the wetland within an incorporated city or within its UGA? Yes = 2 No = 0	2
R 2.2. Does the contributing basin to the wetland include a UGA or incorporated area? Yes = 1 No = 0	1
R 2.3. Does at least 10% of the contributing basin contain tilled fields, pastures, or forests that have been clearcut within the last 5 years? Yes = 1 No = 0	O
R 2.4. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? Yes = 1 No = 0	1
R 2.5. Are there other sources of pollutants coming into the wetland that are not listed in questions R 2.1-R 2.4 Other sources Yes = 1 No = 0	0
Total for R 2 Add the points in the boxes above	Ч
Rating of Landscape Potential If score is: 🗡 3-6 = H1 or 2 = M0 = L	ne first page
R 3.0. Is the water quality improvement provided by the site valuable to society?	
R 3.1. Is the wetland along a stream or river that is on the 303(d) list or on a tributary that drains to one within 1 mi?	
Yes = 1 No = 0	1
R 3.2. Is the wetland along a stream or river that has TMDL limits for nutrients, toxics, or pathogens? Yes = 1 No = 0	1
R 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 drainage in which the unit is found) Yes = 2 No = 0	2
Total for R 3 Add the points in the boxes above	Ч
Rating of Value If score is: 2-4 = H 1 = M 0 = L Record the rating on the	

RIVERIÑE AND FRESHWATER TIDAL FRINGE WETLANDS	
Hydrologic Functions - Indicators that site functions to reduce flooding and stream erosion	n
R 4.0. Does the site have the potential to reduce flooding and erosion?	
R 4.1. Characteristics of the overbank storage the wetland provides:	
Estimate the average width of the wetland perpendicular to the direction of the flow and the width of the stream or river channel (distance between banks). Calculate the ratio: (average width of wetland)/(average	
width of ctroom hotwan hanks	
If the ratio is more than 20 GIS points = 9	
If the ratio is 10-20 points = 6	
If the ratio is 5-<10 points = 4	
If the ratio is 1-<5 points = 2	2
If the ratio is < 1 points = 1	
R 4.2. Characteristics of plants that slow down water velocities during floods: Treat large woody debris as forest or	
shrub. Choose the points appropriate for the best description (polygons need to have >90% cover at person height. These are <u>NOT Cowardin</u> classes).	
Forest or shrub for > 1/3 area OR emergent plants > 2/3 area	7
Forest or shrub for $> \frac{1}{10}$ area OR emergent plants $> \frac{1}{3}$ area points = 4	1 1 1
Plants do not meet above criteria points = 0	
Total for R 4 Add the points in the boxes above	a
Rating of Site Potential If score is: 12-16 = H 6-11 = M 0-5 = L Record the rating on t	he first page
R 5.0. Does the landscape have the potential to support the hydrologic functions of the site?	
R 5.1. is the stream or river adjacent to the wetland downcut? Yes = 0 No = 1	1
R 5.2. Does the up-gradient watershed include a UGA or incorporated area? Yes = 1 No = 0	1
R 5.3. Is the up-gradient stream or river controlled by dams? Yes = $0 \text{ No} = 1$	1
Total for R 5 Add the points in the boxes above	3
Rating of Landscape Potential If score is: X 3 = H1 or 2 = M0 = L Record the rating on t	he first page
R 6.0. Are the hydrologic functions provided by the site valuable to society?	
R 6.1. Distance to the nearest areas downstream that have flooding problems? Choose the description that best fits the site.	
The sub-basin immediately down-gradient of the wetland has flooding problems that result in damage to	
human or natural resources (e.g., houses or salmon redds) points = 2	1
Surface flooding problems are in a sub-basin farther down-gradient points = 1	
No flooding problems anywhere downstream points = 0	
<u> </u>	
R 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan? Yes = 2 No = 0	O
Total for R 6 Add the points in the boxes above	1
Rating of Value If score is: 2-4 = H × 1 = M 0 = I Record the rating on it	he first name

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 % ac or more than 10% of the unit if it is smaller than 2.5 ac. Add the number of structures checked. Aquatic bed Emergent Scrub-shrub (areas where shrubs have > 30% cover) Forested (areas where trees have > 30% cover) 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	Ц
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 Seasonally flooded or inundated Occasionally flooded or inundated Saturated only Permanently flowing stream or river in, or adjacent to, the wetland Seasonally flowing stream in, or adjacent to, the wetland Lake Fringe wetland Freshwater tidal wetland 2 points	2
H 1.3. Richness of plant species Count the number of plant species in the wetland that cover at least 10 ft ² . Different patches of the same species can be combined to meet the size threshold and you do not have to name the species. Do not include Eurasian milfoil, reed canarygrass, purple loosestrife, Canadian thistle If you counted: 5 - 19 species points = 1 < 5 species points = 0	2
H 1.4. Interspersion of habitats Decide from the diagrams below whether interspersion among Cowardin plants classes (described in H 1.1), or the classes and unvegetated areas (can include open water or mudflats) is high, moderate, low, or none. If you have four or more plant classes or three classes and open water, the rating is always high. None = 0 points Low = 1 point Moderate = 2 points All three diagrams in this row are HIGH = 3points	3

· · · · · · · · · · · · · · · · · · ·		
H 1.5. Special habitat features:		91,70
Check the habitat features that are present in the wetland. The number of checks is	the number of points.	
Large, downed, woody debris within the wetland (> 4 in diameter and 6 ft long		
Standing snags (dbh > 4 in) within the wetland	7.0	
Undercut banks are present for at least 6.6 ft (2 m) and/or overhanging plants	extends at least 3.3 ft (1 m)	
over a stream (or ditch) in, or contiguous with the wetland, for at least 33 ft (1		
Stable steep banks of fine material that might be used by beaver or muskrat fo		1
slope) OR signs of recent beaver activity are present (cut shrubs or trees that h		4
where wood is exposed)	are not yet meaning	
At least // 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 pla		
strata)		
Total for H 1 Add the	points in the boxes above	12
Rating of Site Potential If score is: 15-18 = H 7-14 = M 0-6 = L	Record the rating on t	
		A 201 2 140
H 2.0. Does the landscape have the potential to support the habitat functions of the	ne siter	
H 2.1. Accessible habitat (include only habitat that directly abuts wetland unit).	27	
Calculate: % undisturbed habitat 27 + [(% moderate and low intensity land	d uses)/2 <u>] </u>	
If total accessible habitat is:		
$>$ $^{1}/_{3}$ (33.3%) of 1 km Polygon	points = 3	
20-33% of 1 km Polygon	points = 2	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	d uses)/2] =%	
Undisturbed habitat > 50% of Polygon	points = 3	7
Undisturbed habitat 10-50% and in 1-3 patches	points = 2	
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)	- 2
≤ 50% of 1 km Polygon is high intensity	points = 0	
	points in the boxes above	2-
Rating of Landscape Potential If score is: 4-6 = H × 1-3 = M<1 = L	Record the rating on th	e first nage
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? Cha	oose only the highest score	
that applies to the wetland being rated.	=	
Site meets ANY of the following criteria:	points = 2	
 It has 3 or more priority habitats within 100 m (see next page) 		
 It provides habitat for Threatened or Endangered species (any plant or animal c 	on the state or federal lists)	
 It is mapped as a location for an individual WDFW priority species 		
 It is a Wetland of High Conservation Value as determined by the Department of 	Natural Resources	
 It has been categorized as an important habitat site in a local or regional compr 	ehensive plan, in a	Λ
Shoreline Master Plan, or in a watershed plan		1
Site has 1 or 2 priority habitats (listed on next page) within 100 m	points = 1	
Site does not meet any of the criteria above	points = 0	
Rating of Value If score is:2 = H1 = M0 = L	Record the rating on	the first page

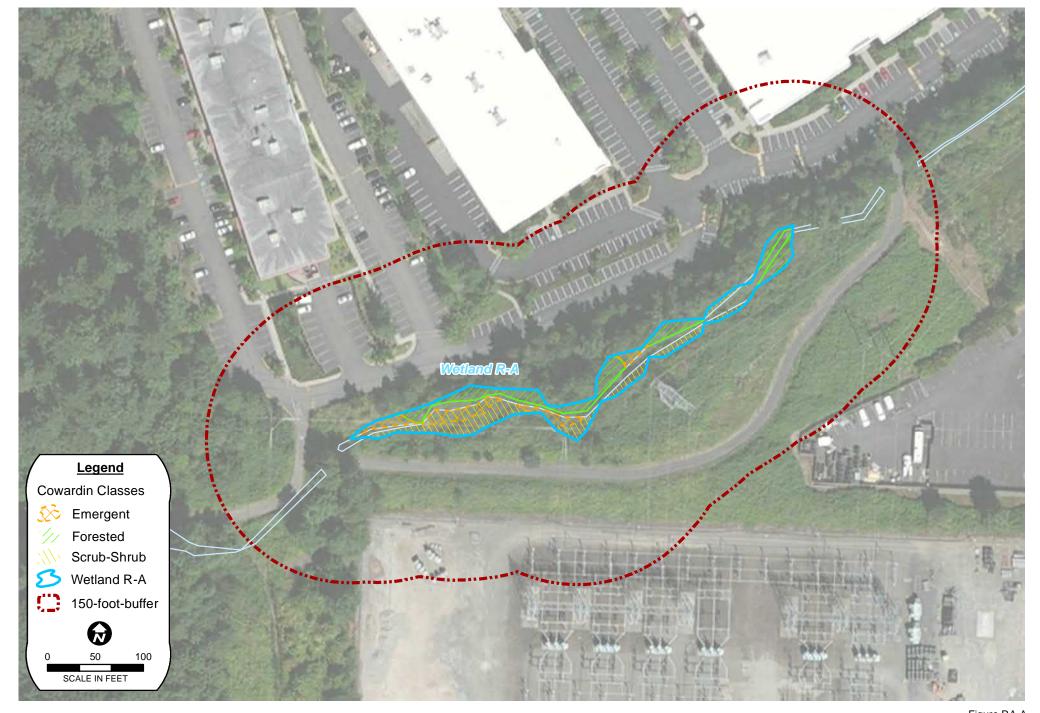
WDFW Priority Habitats

<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.

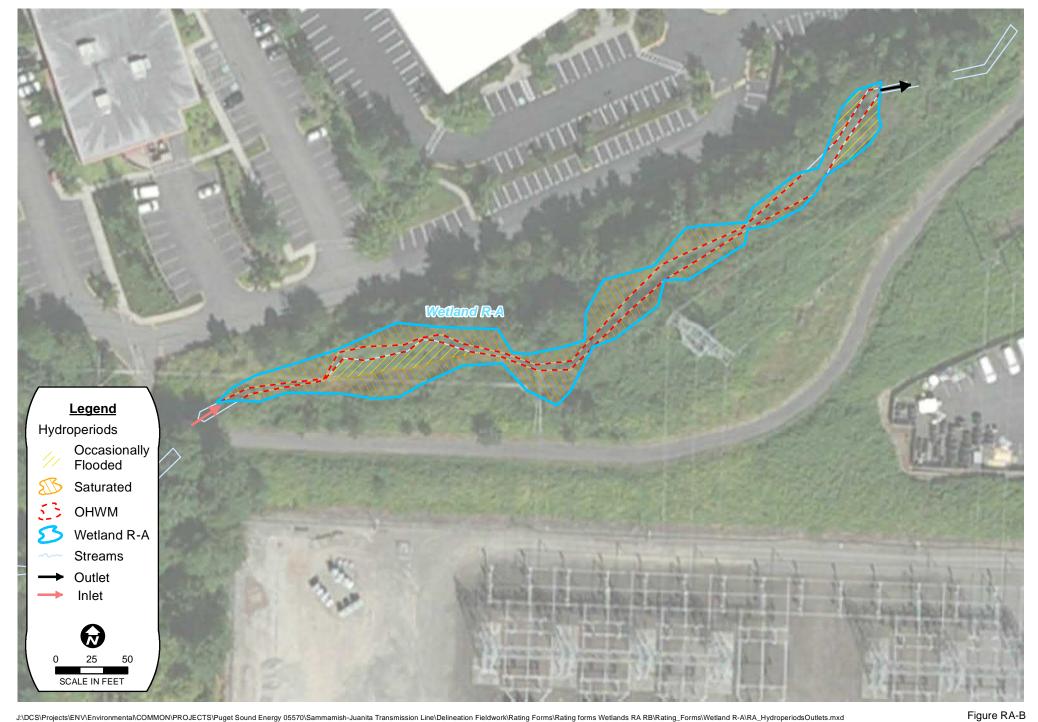
- Aspen Stands: Pure or mixed stands of aspen greater than 1 ac (0.4 ha).
- **Biodiversity Areas and Corridors**: Areas of habitat that are relatively important to various species of native fish and wildlife (*full descriptions in WDFW PHS report*).
- Herbaceous Balds: Variable size patches of grass and forbs on shallow soils over bedrock.
- Old-growth/Mature forests: Old-growth west of Cascade crest Stands of at least 2 tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) > 32 in (81 cm) dbh or > 200 years of age. Mature forests Stands with average diameters exceeding 21 in (53 cm) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80-200 years old west of the Cascade crest.
- Oregon White Oak: Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak
 component is important (full descriptions in WDFW PHS report p. 158 see web link above).
- 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 (full descriptions in WDFW PHS report p. 161 see web link above).
- 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).
- Caves: A naturally occurring cavity, recess, void, or system of interconnected passages under the earth in soils, rock, ice, or other geological formations and is large enough to contain a human.
- Cliffs: Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation.
- Talus: Homogenous areas of rock rubble ranging in average size 0.5 6.5 ft (0.15 2.0 m), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.
- 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.



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Figure RA-A Cowardin Classes

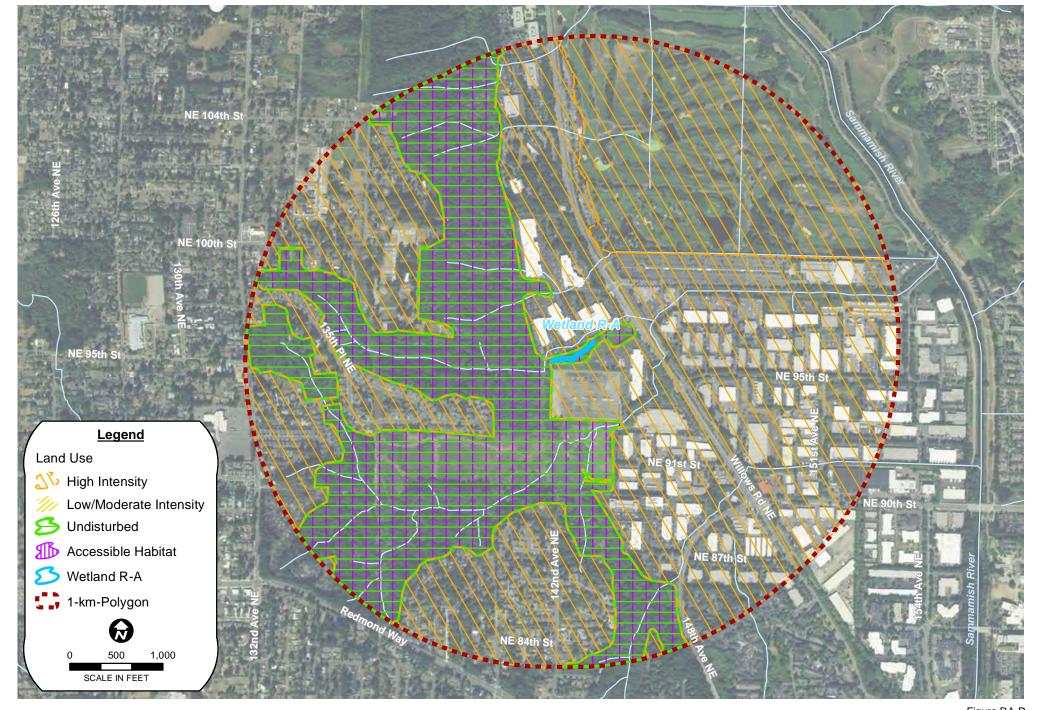


Hydroperiods



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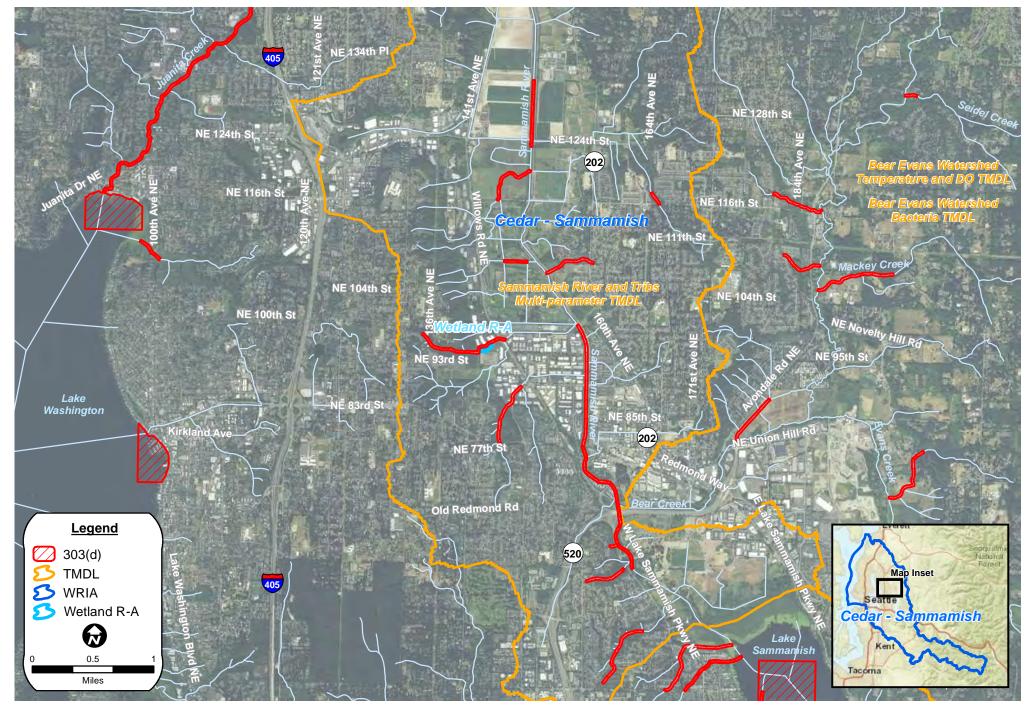
Figure RA-C Contributing Basin



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_wria_tmdl.mxd Figure RA-E **303 (d) Waters, WRIAs, and TMDLs**

RATING SUMMARY – Western Washington

Name of wetland (or ID#): R-C 4	R-D Dat	e of site visit: 6 29 16
Rated by PH 6 M	Trained by Ecology?_XYes_	No Date of training Mr 2015
HGM Class used for rating Depression a	Wetland has multiple	HGM classes? <u>Y</u> X_N
NOTE: Form is not complete without Source of base aerial photo/map		ıres can be combined).
OVERALL WETLAND CATEGORY $\overline{\coprod}$	Γ (based on functions \checkmark c	or special characteristics)

1. Category of wetland based on FUNCTIONS

	_Category I — Total score = 23 - 27
	_Category II - Total score = 20 - 22
*	_Category III - Total score = 16 - 19
	_Category IV — Total score = 9 - 15

FUNCTION	Improving Water Quality		Hydrologic		Habitat					
					Circle t	he ap	propr	iate r	atings	
Site Potential	Н	M	L	Н	M	L	Н	М	0	
Landscape Potential	Н	M	L	Н	M	L	Н	М	0	
Value	H	М	L	Н	M	L	Н	М	0	TOTAL
Score Based on Ratings		7			6			3	5	16

Score for each function based on three ratings (order of ratings is not important) 9 = H,H,H 8 = H,H,M 7 = H,H,L 7 = H,M,M 6 = H,M,L 6 = M,M,M 5 = H,L,L 5 = M,M,L 4 = M,L,L 3 = 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	~		

Maps and figures required to answer questions correctly for Western Washington

Depressional Wetlands

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

Riverine Wetlands

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

Lake Fringe Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	L 1.1, L 4.1, H 1.1, H 1.4	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of area within 150 ft of the wetland (can be added to another figure)	L 2.2	20
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and undisturbed habitat	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	L 3.1, L 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	L 3.3	

Slope Wetlands

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

HGM Classification of Wetlands in Western Washington

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

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

1.	Are the water levels in the entire unit usually controlled by tides except during floods?
	NO go to 2 YES – the wetland class is Tidal Fringe – go to 1.1
-	LHs the salinity of the water during periods of annual low flow below 0.5 ppt (parts per thousand)?
	NO – Saltwater Tidal Fringe (Estuarine) If your wetland can be classified as a Freshwater Tidal Fringe use the forms for Riverine wetlands. If is Saltwater Tidal Fringe it is an Estuarine wetland and is not scored. This method cannot be used to score functions for estuarine wetlands.
2.	The entire wetland unit is flat and precipitation is the only source (>90%) of water to it. Groundwater and surface water runoff are NOT sources of water to the unit.
(NO- go to 3 YES - The wetland class is Flats If your wetland can be classified as a Flats wetland, use the form for Depressional wetlands.
3.	Does the entire wetland unit meet all of the following criteria? The vegetated part of the wetland is on the shores of a body of permanent open water (without any plants on the surface at any time of the year) at least 20 ac (8 ha) in size; At least 30% of the open water area is deeper than 6.6 ft (2 m).
(NO go to 4 YES - The wetland class is Lake Fringe (Lacustrine Fringe)
ł.	Does the entire wetland unit meet all of the following criteria? The wetland is on a slope (slope can be very gradual), The water flows through the wetland in one direction (unidirectional) and usually comes from seeps. It may flow subsurface, as sheetflow, or in a swale without distinct banks, The water leaves the wetland without being impounded .
/	NO– go to 5 YES – The wetland class is Slope
	NOTE : Surface water does not pond in these type of wetlands except occasionally in very small and shallow depressions or behind hummocks (depressions are usually <3 ft diameter and less than 1 ft deep).
5.	Does the entire wetland unit meet all of the following criteria? The unit is in a valley, or stream channel, where it gets inundated by overbank flooding from that stream or river, The overbank flooding occurs at least once every 2 years.

Wetland name or number $R-C \notin R-D$

NOTE: The Riverine unit can contain depressions that are filled with water when the river is not flooding

6. Is the entire wetland unit in a topographic depression in which water ponds, or is saturated to the surface, at some time during the year? This means that any outlet, if present, is higher than the interior of the wetland.

NO - go to 7

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

NO - go to 8

YES - The wetland class is Depressional

YES / The wetland class is Depressional

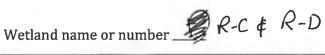
8. Your wetland unit seems to be difficult to classify and probably contains several different HGM classes. For example, seeps at the base of a slope may grade into a riverine floodplain, or a small stream within a Depressional wetland has a zone of flooding along its sides. GO BACK AND IDENTIFY WHICH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

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

HGM classes within the wetland unit being rated	HGM class to use in rating
Slope + Riverine	Riverine
Slope + Depressional	Depressional
Slope + Lake Fringe	Lake Fringe
Depressional + Riverine along stream	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.





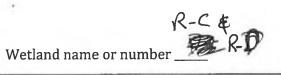
DEPRESSIONAL AND FLATS WETLANDS Water Quality Functions - Indicators that the site functions to improve water quality	
D 1.0. Does the site have the potential to improve water quality?	
D 1.1. Characteristics of surface water outflows from the wetland:	
Wetland is a depression or flat depression (QUESTION 7 on key) with no surface water leaving it (no outlet). points = 3 Wetland has an intermittently flowing stream or ditch, OR highly constricted permanently flowing outlet.	
Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing points = 1 Wetland is a flat depression (QUESTION 7 on key), whose outlet is a permanently flowing ditch. points = 1	2
D 1.2. The soil 2 in below the surface (or duff layer) is true clay or true organic (use NRCS definitions). Yes = 4 No = 0	0
D 1.3. Characteristics and distribution of persistent plants (Emergent, Scrub-shrub, and/or Forested Cowardin classes): Wetland has persistent, ungrazed, plants > 95% of area Wetland has persistent, ungrazed, plants > ½ of area Wetland has persistent, ungrazed plants > 1/10 of area Wetland has persistent, ungrazed plants < 1/10 of area points = 1 points = 0	5
D 1.4. Characteristics of seasonal ponding or inundation: This is the area that is ponded for at least 2 months. See description in manual. Area seasonally ponded is > ½ total area of wetland Area seasonally ponded is > ½ total area of wetland Area seasonally ponded is < ½ total area of wetland Area seasonally ponded is < ½ total area of wetland points = 2 points = 0	4
Total for D 1 Add the points in the boxes above	11
Rating of Site Potential If score is:12-16 = H6-11 = M0-5 = L Record the rating on the first p	age
D 2.0. Does the landscape have the potential to support the water quality function of the site?	Τ.
D 2.1. Does the wetland unit receive stormwater discharges? Yes = 1 No = 0	/ _
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants? Yes = 1 No = 0	
D 2.3. Are there septic systems within 250 ft of the wetland? Yes = 1 No = 0	0
D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in questions D 2.1-D 2.3? Source Yes = 1 No = 0	0
Total for D 2 Add the points in the boxes above	2
Rating of Landscape Potential If score is:3 or 4 = HX_1 or 2 = M0 = L Record the rating on the fi	ìrst page
D 3.0. Is the water quality improvement provided by the site valuable to society?	T
D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, lake, or marine water that is on the 303(d) list? Yes = 1 No = 0	1
D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on the 303(d) list? Yes = 1 No = 0	1
D 3.3. Has the site been identified in a watershed or local plan as important for maintaining water quality (answer YES if there is a TMDL for the basin in which the unit is found)? Yes = 2 No = 0	2
Total for D 3 Add the points in the boxes above	Ч

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

Rating of Value If score is: $\chi 2-4 = H$ ___1 = M ___0 = L

Record the rating on the first page

DEPRESSIONAL AND FLATS WETLANDS		
Hydrologic Functions - Indicators that the site functions to reduce flooding and stream degradation		
D 4.0. Does the site have the potential to reduce flooding and erosion?		
D 4.1. Characteristics of surface water outflows from the wetland: Wetland is a depression or flat depression with no surface water leaving it (no outlet) Wetland has an intermittently flowing stream or ditch, OR highly constricted permanently flowing outletpoints = 2 Wetland is a flat depression (QUESTION 7 on key), whose outlet is a permanently flowing ditch Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing points = 0	2	
D 4.2. Depth of storage during wet periods: Estimate the height of ponding above the bottom of the outlet. For wetlands with no outlet, measure from the surface of permanent water or if dry, the deepest part. Marks of ponding are 3 ft or more above the surface or bottom of outlet points = 7 Marks of ponding between 2 ft to < 3 ft from surface or bottom of outlet points = 8 Marks are at least 0.5 ft to < 2 ft from surface or bottom of outlet points = 3 The wetland is a "headwater" wetland points = 3 Wetland is flat but has small depressions on the surface that trap water points = 1 Marks of ponding less than 0.5 ft (6 in) points = 0	5	
D 4.3. Contribution of the wetland to storage in the watershed: Estimate the ratio of the area of upstream basin contributing surface water to the wetland to the area of the wetland unit itself. The area of the basin is less than 10 times the area of the unit The area of the basin is 10 to 100 times the area of the unit The area of the basin is more than 100 times the area of the unit Entire wetland is in the Flats class D 4.3. Contribution of the area of upstream basin contribution of the area of upstream basin contribution of the area of upstream basin points = 5 The area of the basin is 10 to 100 times the area of the unit points = 5 The area of the basin is more than 100 times the area of the unit points = 5 The area of the basin is more than 100 times the area of the unit points = 5	11.0	
Total for D 4 Add the points in the boxes above	72	
Rating of Site Potential If score is: 12-16 = H	first page	
D 5.0. Does the landscape have the potential to support hydrologic functions of the site?		
D 5.1. Does the wetland receive stormwater discharges? Yes = 1 No = 0	/	
D 5.2. Is >10% of the area within 150 ft of the wetland in land uses that generate excess runoff? Yes = 1 No = 0	/	
D 5.3. Is more than 25% of the contributing basin of the wetland covered with intensive human land uses (residential at >1 residence/ac, urban, commercial, agriculture, etc.)? Yes = 1 No = 0	D	
Total for D 5 Add the points in the boxes above	3	
Rating of Landscape Potential If score is: 43 = H 1 or 2 = M 0 = L Record the rating on the	first page	
D 6.0. Are the hydrologic functions provided by the site valuable to society?		
D 6.1. The unit is in a landscape that has flooding problems. Choose the description that best matches conditions around the wetland unit being rated. Do not add points. Choose the highest score if more than one condition is met. The wetland captures surface water that would otherwise flow down-gradient into areas where flooding has damaged human or natural resources (e.g., houses or salmon redds): • Flooding occurs in a sub-basin that is immediately down-gradient of unit. • Surface flooding problems are in a sub-basin farther down-gradient. Flooding from groundwater is an issue in the sub-basin. The existing or potential outflow from the wetland is so constrained by human or natural conditions that the water stored by the wetland cannot reach areas that flood. Explain why points = 0 There are no problems with flooding downstream of the wetland.		
D 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan? Yes = 2 No = 0	ð	
Total for D 6 Add the points in the boxes above	1	
Rating of Value If score is:2-4 = H1 = M0 = 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 % 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 Semender 3 structures: points = 2 Scrub-shrub (areas where shrubs have > 30% cover)	0
H 1.2. Hydroperiods	
Check the types of water regimes (hydroperiods) present within the wetland. The water regime has to cover more than 10% of the wetland or ¼ ac to count (see text for descriptions of hydroperiods). Permanently flooded or inundated 4 or more types present: points = 3	
Y Seasonally flooded or inundated 3 types present: points = 2	
Occasionally flooded or inundated 2 types present: points = 1	
Saturated only 1 type present: points = 0	
Permanently flowing stream or river in, or adjacent to, the wetland	Ω
Seasonally flowing stream in, or adjacent to, the wetland Lake Fringe wetland 2 points	U
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 If you counted: > 19 species points = 2 5 - 19 species points = 1 < species points = 0	Ò
H 1.4. Interspersion of Mahitats	
Decide from the diagrams below whether interspersion among Cowardin plants classes (described in H 1.1), or the classes and unvegetated areas (can include open water or mudflats) is high, moderate, low, or none. If you have four or more plant classes or three classes and open water, the rating is always high.	
None = 0 points Low = 1 point Moderate = 2 points	
All three diagrams in this row are HIGH = 3points	0

the North

H 1.5. Special habitat features:		
Check the habitat features that are present in the wetland. The number of checks is the number	mber of points.	
Large, downed, woody debris within the wetland (> 4 in diameter and 6 ft long).		
Standing snags (dbh > 4 in) within the wetland	19	
Undercut banks are present for at least 6.6 ft (2 m) and/or overhanging plants extends	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)		
Stable steep banks of fine material that might be used by beaver or muskrat for dennir	ng (> 30 degree	
slope) OR signs of recent beaver activity are present (cut shrubs or trees that have not		
where wood is exposed)		
At least ¼ ac of thin-stemmed persistent plants or woody branches are present in areas	s that are	-0.0
permanently or seasonally inundated (structures for egg-laying by amphibians)		1)
Invasive plants cover less than 25% of the wetland area in every stratum of plants (see	H 1.1 for list of	
strata)	1-1	
Total for H 1 Add the points i	n the boxes above	0
Rating of Site Potential	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	2]0 = 0 %	
If total accessible habitat is:		
$> \frac{1}{3}$ (33.3%) of 1 km Polygon	points = 3	400
20-33% of 1 km Polygon	points = 2	0
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	2] = %	- "
Undisturbed habitat > 50% of Polygon	points = 3	
Undisturbed habitat 10-50% and in 1-3 patches	points = 2	2
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	P	
> 50% of 1 km Polygon is high intensity land use	points = (- 2)	- >
≤ 50% of 1 km Polygon is high intensity	points = 0	
		0
	n the boxes above	- first
Rating of Landscape Potential If score is: 4-6 = H 1-3 = M 1-3 = M 1-3 = L	Record the rating on th	e jirst page
H 3.0. Is the habitat provided by the site valuable to society?		
H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies? Choose only	y the highest score	
that applies to the wetland being rated,		ļ
Site meets ANY of the following criteria:	points = 2	
 It has 3 or more priority habitats within 100 m (see next page) 		
— It provides habitat for Threatened or Endangered species (any plant or animal on the statement of the s	ate or federal lists)	
 It is mapped as a location for an individual WDFW priority species 		ا ر
 It is a Wetland of High Conservation Value as determined by the Department of Natural Resources 		<i>()</i>
— It has been categorized as an important habitat site in a local or regional comprehensive plan, in a		ĭ
Shoreline Master Plan, or in a watershed plan		
Site has 1 or 2 priority habitats (listed on next page) within 100 m	points = 1	
Site does not meet any of the criteria above	points = 0	
Rating of Value If score is:2 = H1 = M0 = L	Record the rating on t	he first page

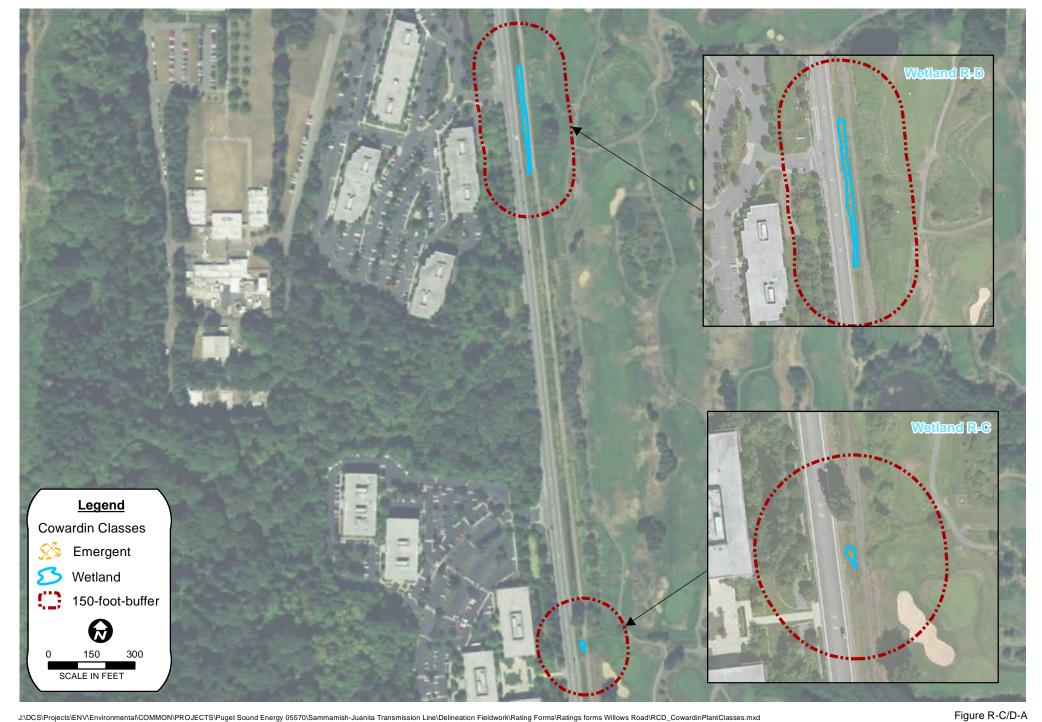
WDFW Priority Habitats

<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.

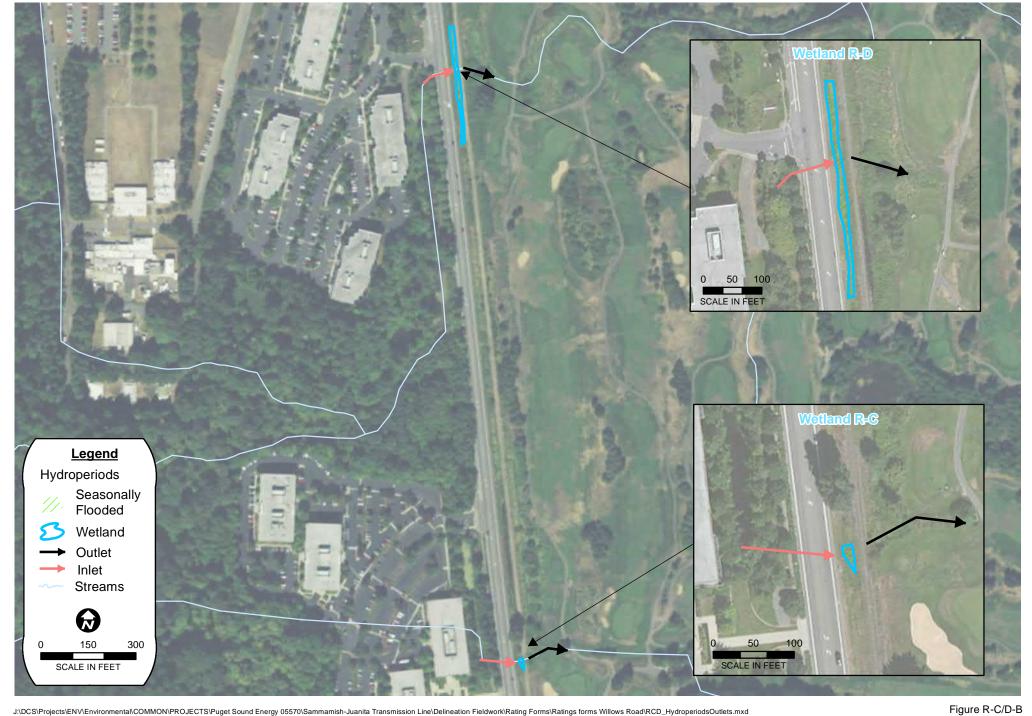
- **Aspen Stands**: Pure or mixed stands of aspen greater than 1 ac (0.4 ha).
- Biodiversity Areas and Corridors: Areas of habitat that are relatively important to various species of native fish and wildlife (full descriptions in WDFW PHS report).
- Herbaceous Balds: Variable size patches of grass and forbs on shallow soils over bedrock.
- Old-growth/Mature forests: Old-growth west of Cascade crest Stands of at least 2 tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) > 32 in (81 cm) dbh or > 200 years of age. Mature forests Stands with average diameters exceeding 21 in (53 cm) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80-200 years old west of the Cascade crest.
- Oregon White Oak: Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak
 component is important (full descriptions in WDFW PHS report p. 158 see web link above).
- 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 (*full descriptions in WDFW PHS report p. 161 see web link above*).
- 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).
- Caves: A naturally occurring cavity, recess, void, or system of interconnected passages under the earth in soils, rock, ice, or other geological formations and is large enough to contain a human.
- Cliffs: Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation.
- Talus: Homogenous areas of rock rubble ranging in average size 0.5 6.5 ft (0.15 2.0 m), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.
- 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.



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Cowardin Classes



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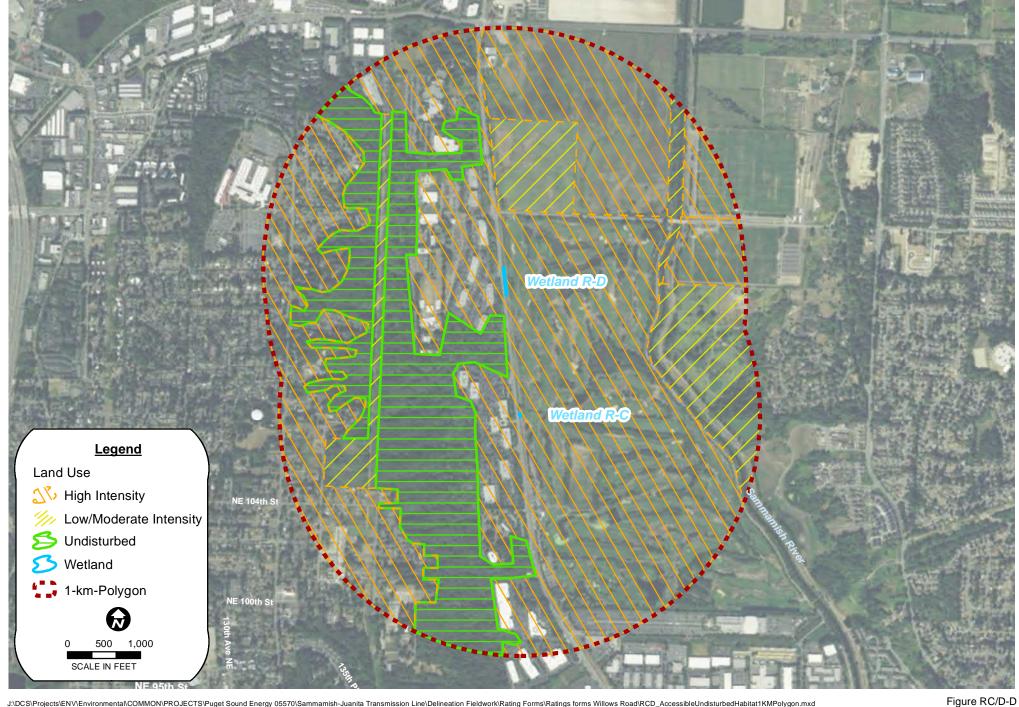
Date: 8/31/2016 | joel_hancock
Note: *Meets 90 percent groundcover per R1.2 and R4.2.

Hydroperiods



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Figure RC/D-C **Contributing Basin**



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Accessible and Undisturbed Habitat in 1 KM Polygon