

Puget Sound Energy Sammamish-Juanita Transmission Line Wetland Delineation

Kirkland, Washington Project No.: 60608044



200

☐ Feet

0 50 100

Delineated Stream
2-foot Contours

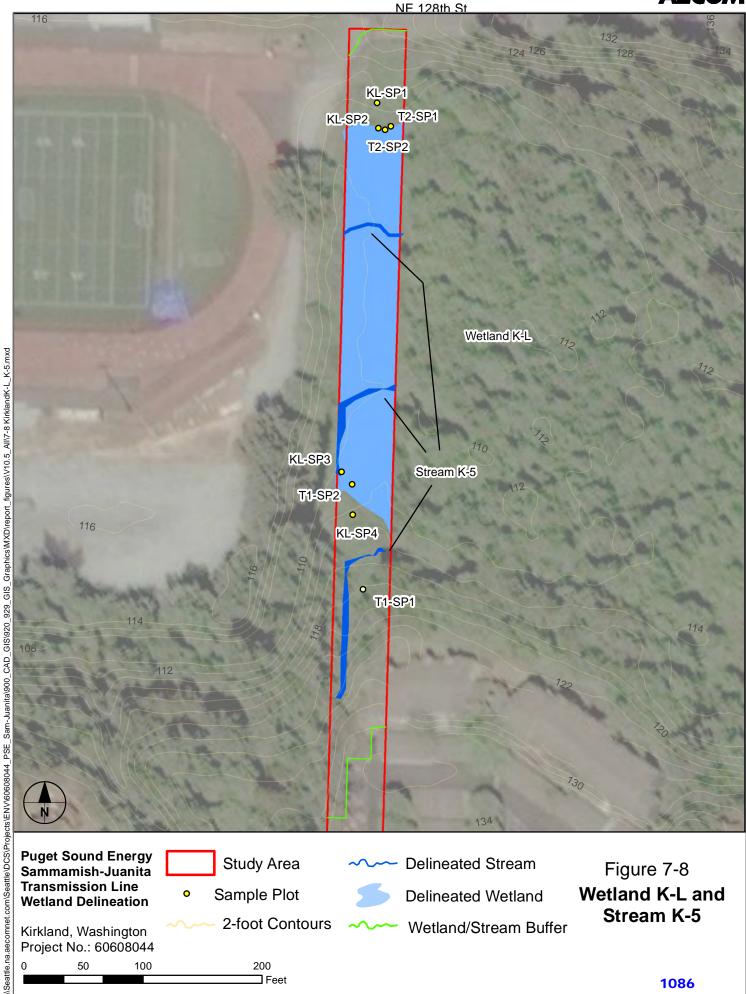


Delineated Wetland

Wetland/Stream Buffer

Figure 7-7
Wetlands K-J
and K-K
Streams K-3
and K-6

AECOM



AECOM

1087



Feet

8.0 Wetland and Stream Buffers

Required wetland and stream buffers are determined by jurisdiction, in accordance with applicable local regulations, as discussed in the sections that follow.

8.1 Wetland and Stream Buffers – City of Redmond

8.1.1 Wetland Buffers

Based on information provided in RZC 21.64.030, wetland buffers are determined using information pertaining to the wetland rating and whether measures to minimize impacts to wetlands (listed in RZC Table 21.64.030A.3) are implemented, as shown in Table 8.1 and Table 8-2.

Table 8-1. City of Redmond Wetland Buffer Requirements

Buffer Width Based on Habitat Score (feet)			
Wetland Category	3 to 5 Points	6 to 7 Points	8 to 9 Points
Category I: Wetlands of High Conservation Value	250	250	300
Category I	100	150	300
Category II	100	150	300
Category III	80	150	300
Category IV	50	50	50

Source: RZC Table 21.64.030A.1

Table 8-2. City of Redmond Wetland Buffer Requirements When Measures to Minimize Impacts to Wetlands Are Implemented

Buffer Width Based on Habitat Score (feet)			
Wetland Category	3 to 5 Points	6 to 7 Points	8 to 9 Points
Category I: Wetlands of High Conservation Value	190	190	225
Category I	75	110	225
Category II	75	110	225
Category III	60	110	225
Category IV	40	40	40

Source: RZC Table 21.64.030A.2

Measures to minimize impacts to wetlands, which are specified in RZC Table 21.64.030A.3, include measures to minimize impacts from disturbance, lights, noise, toxic runoff, stormwater runoff, change in water regime, pets and human disturbance, and dust.

The Department of Planning and Community Development may extend buffer widths on a case-by-case basis as necessary to protect wetland functions and values based on site-specific characteristics. The Department may also allow modification of the standard wetland buffer width on a case-by-case basis by averaging buffer widths.

8.1.2 Stream Buffers

Based on information provided in RZC 21.64.020, stream buffers are determined based on the classification of the riparian stream corridor, as shown in Table 8-3.

Table 8-3. City of Redmond Stream Buffer Requirements

Riparian Stream Corridor Classification	Stream Buffer Width
Class I	
Sammamish River north of PSE powerline crossing	150-foot inner buffer + 50-foot outer buffer
Sammamish River south of PSE powerline crossing	150 feet
Bear Creek west of Avondale Road	150 feet
Bear Creek east of Avondale Road	150-foot inner buffer + 50-foot outer buffer
Evans Creek	150-foot inner buffer + 50-foot outer buffer
Class II	
Class II	100 feet + 50-foot outer buffer
Class III	
Class III	100 feet
Class IV	
Perennial	36 feet
Intermittent	25 feet
Source: RZC 21.64.020.B	

The Department of Planning and Community Development may increase stream buffer width if it is determined that the recommended width is insufficient to prevent habitat degradation and to protect the structure and function of the habitat area; to extend the buffer to the outer edge of the frequently flooded area; or to make it equal to a landslide hazard area or erosion hazard area buffer.

8.1.3 Buffers of Wetlands and Streams in the Study Area

Table 8-4 summarizes the standard required buffer distances for wetlands mapped in the study area, based on their rating and habitat scores, and the assumption that all applicable required measures listed in RZC Table 21.64.030A.3 to minimize impacts to wetlands will be implemented. Table 8-5 summarizes the standard required buffer distances for the streams mapped in the study corridor within the City of Redmond, based on their classification. Figures 5-3 through 5-9 show portions of buffers within the study area, in the vicinity of proposed project impacts. Buffers were truncated at roads and other paved areas. RZC 21.64.030(B)(6)(b) states that reductions in buffer widths may be allowed where existing roads or structures lie within the buffer.

Estimated buffers off off-site wetlands are based on boundaries determined by best professional judgment have been included. Additionally, the buffer of Wetland R-E is based on the estimated full size of the wetland, as shown on the figures in Appendix C.

Table 8-4. Standard Regulatory Buffers for Study Area Wetlands – City of Redmond

Category	Habitat Score	Water Quality Score	Buffer Width (With Measures to Minimize Impacts)
II	6	8	110 feet
III	3	7	60 feet
III	3	7	60 feet
II	4	8	75 feet
III	4	6	60 feet
III	4	6	60 feet
	 	Category Score	Score Scor

¹Information on the rating, habitat score, and water quality score for Wetlands R-GCA and R-GCB comes from Parametrix 2018.

Table 8-5. Standard Regulatory Buffers for Study Area Streams – City of Redmond

Name	Category	Standard Buffer
Gun Club Creek	Class III	100 feet
Stream R-2	Class III	100 feet
Stream R-3	Class III	100 feet
York Creek	Class III	100 feet
124th Street Stream	Class III	100 feet

8.2 Wetland and Stream Buffers – Unincorporated King County

8.2.1 Wetland Buffers

Based on information provided in the KCC, wetland buffers are determined using information pertaining to the wetland rating, the level of impact of the land use, and whether the property is located within the UGA. The unincorporated King County portion of the study area is located just inside the UGA. The study area and planned transmission line route are located just inside the UGA (although most of Wetland KC-A is located outside the UGA). Therefore, buffers for inside the UGA are appropriate (Table 8.5).

Table 8-6. King County Wetland Buffer Requirements Within the Urban Growth Area

Wetland Category and Characteristics	Buffer	
Category I		
Natural Heritage Wetlands	215 feet	
Bog	215 feet	
Estuarine	175 feet	
Coastal Lagoon	175 feet	
Habitat score from 31 to 36 points	225 feet	
Habitat score from 20 to 30 points	150 feet plus 7.5 feet for each habitat score above	
	20 points	
Category I wetlands not meeting any of the criteria	125 feet	
above		
Category II		
Estuarine	135 feet	
Habitat score from 31 to 36 points	200 feet	
Habitat score from 20 to 30 points	125 feet plus 7.5 feet for each habitat score above	
	20 points	

Category II wetlands not meeting any of the criteria	100 feet
above	
Category III	
Habitat score from 20 to 28 points	125 feet
Category III wetlands not meeting any of the	75 feet
criteria above	
Category IV	50 feet
Source: KCC 21A.24.325	

Buffer widths may be modified under certain circumstances, subject to County approval, as stated in KCC 21A.24.325.

8.2.2 Aquatic Area Buffers

Aquatic area buffers for properties inside the UGA are shown in Table 8.6.

Table 8-7. King County Aquatic Area Buffer Requirements Within the Urban Growth Area

Aquatic Area Classification	Aquatic Area Buffer
Type S	115 feet
Type F	115 feet
Type N	65 feet
Type O	25 feet
Source: KCC 21A.24.358	

Buffer widths may be modified under certain circumstances, subject to County approval, as stated in KCC 21A.24.358.

8.2.3 Buffers of Wetlands and Streams in the Study Area

Table 8.7 summarizes the standard required buffer distances for the wetlands and streams mapped in the study corridor within unincorporated King County, based on their classification. Figures 6-2 and 6-3 show associated wetland/stream buffers within the study area. The buffer of Wetland KC-A is based on the estimated full size of the wetland, as shown on the figures in Appendix C.

Table 8-8. Standard Regulatory Buffers for Study Area Wetlands and Streams – Unincorporated King County

Name	Category	Standard Buffer
Wetland KC-A	Category II	100 feet
Wetland KC-B	Category III	75 feet
Stream KC-1	Type N	65 feet
124th Street Stream	Type F	115 feet

Wetland and stream buffers were truncated at paved and gravel areas since they represent an interruption to buffer function within the prescriptive buffer width. KCC 21A.24.325 and 21A.24.358 state that modifications to buffer widths may be allowed where a legally established roadway transects the wetland or aquatic area buffer, provided the following apply:

For wetlands: the part of the buffer on the other side of the roadway does not provide additional
protection of the proposed development or wetland, and provides insignificant biological, geological, or
hydrological buffer functions in relation to the other portion of the buffer adjacent to the wetland (KCC
21A.24.325(D)(4)).

 For aquatic areas: the part of the buffer on the other side of the roadway provides insignificant biological or hydrological function in relation to the portion of the buffer adjacent to the aquatic area (KCC 21A.24.358(E)(d)).

Although not a roadway, the railroad ballast was part of a legally established railroad corridor that transected the current identified wetland/stream buffer, such that the undeveloped area on the opposite side of the buffer no longer provided significant buffer functions. Currently, the portion of buffers on the opposite side of the railroad ballast from mapped wetlands and streams are generally disturbed and/or lacking in woody vegetation, provide insignificant biological, geological, and hydrological buffer functions, and do not provide additional protection to the wetlands and streams on the other side of the ballast.

8.3 Wetland and Stream Buffers – City of Kirkland

8.3.1 Wetland Buffers

In accordance with the KZC, wetland buffers are determined using information pertaining to the wetland category and habitat scores on the associated rating form, as shown in Table 8.8.

Table 8-9. City of Kirkland Standard Wetland Buffers

Wetland Cetagons	Вι	Buffer Width Based on Habitat Points			
Wetland Category	3-4 Points 5 Po		6-7 Points	8-9 Points	
Category I: bogs and high	190 feet	190 feet	190 feet	225 feet	
conservation areas					
Category I: Others	75 feet	105 feet	165 feet	225 feet	
Category II	75 feet	105 feet	165 feet	225 feet	
Category III	60 feet	105 feet	165 feet	225 feet	
Category IV	40 feet	40 feet	40 feet	40 feet	
Source: KZC Table 90.55.1.					

An increased buffer may be required if the wetland or its buffer contains or is adjacent to a severe erosion hazard area, habitat of certain species, or a frequently flooded area.

8.3.2 Stream Buffers

Based on information provided in the KZC, stream buffers are determined based on the classification of the riparian stream corridor, as shown in Table 8.9.

Table 8-10. City of Kirkland Standard Stream Buffer Widths

Stream Type	Stream Buffer Width
F (Fish bearing)	100 feet
Np (Perennial non-fish bearing)	50 feet
Ns (Season non-fish bearing)	50 feet
Source: KZC Table 90.65.1.	

An increased buffer may be required if the stream or its buffer contains or is adjacent to a severe erosion hazard area, habitat of certain species, or a frequently flooded area.

8.3.3 Buffers of Wetlands and Streams in the Study Area

Based on the information in the KZC, Table 8.10 and Table 8.11 summarize the standard required buffer distances for wetlands and streams mapped in the study corridor within the City of Kirkland, based on their classification. Figures 7-4 through 7-9 show wetland/stream buffers within the study area. Where wetlands

extend beyond the study area boundary, buffers are based on the estimated full size of the wetlands, as shown on the figures in Appendix C.

Table 8-11. Standard Regulatory Buffers for Study Area Wetlands – City of Kirkland

Name	Category	Habitat Score	Standard Buffer Width
Wetland K-B	IV	3	40 feet
Wetland K-C	III	3	60 feet
Wetland K-D	III	3	60 feet
Wetland K-DD	III	3	60 feet
Wetland K-E	IV	3	40 feet
Wetland K-F	III	3	60 feet
Wetland K-G	III	3	60 feet
Wetland K-H	III	3	60 feet
Wetland K-J	II	6	165 feet
Wetland K-K	III	3	60 feet
Wetland K-L	II	6	165 feet
Wetland K-HF	II	5	105 feet

Table 8-12. Standard Regulatory Buffers for Study Area Streams – City of Kirkland

Name	Туре	Standard Buffer		
Stream K-3	Type F	100 feet		
Stream K-5	Type F	100 feet		
Stream K-6	Type F	100 feet		
Stream K-7	Type Np	50 feet		

Wetland and stream buffers were truncated at paved and gravel surfaces to more accurately reflect the current site conditions since these areas do not provide buffer function.

KZC 90.120 allows an interrupted buffer waiver if the following criteria are met:

- 1. The existing legal improvement creates a substantial barrier to the buffer function;
- 2. The interrupted buffer does not provide additional protection of the critical area from the proposed development; and
- 3. The interrupted buffer does not provide significant hydrological, water quality, and wildlife buffer functions relating to the portion of the buffer adjacent to the critical area.

The railroad ballast/gravel trail creates a substantial barrier to buffer function since it restricts development of woody vegetation for screening functions, and soil development to provide water quality functions. Fill material is generally 2 feet or more of coarse gravel. The railroad ballast/trail would not provide additional protection to critical areas from the proposed utility line. Additionally, the railroad ballast does not provide significant hydrological, water quality or wildlife buffer functions. The coarse rock does not retain or filter runoff as would native soils, and provides minimal buffer for wildlife. Therefore, the interrupted buffer waiver is applicable in this circumstance.

9.0 Summary

AECOM identified and evaluated 18 wetlands and 10 streams within the study area. These included 4 wetlands and 5 streams in the City of Redmond, 2 wetlands and 2 streams in unincorporated King County, and 12 wetlands and 4 streams in the City of Kirkland. Note that one stream, 124th Street Stream, occurs in both the City of Redmond and unincorporated King County. Table 9.1 provides a summary of pertinent information for each wetland delineated, and Table 9.2 provides a summary of pertinent information for each stream segment mapped. For completeness, Table 9.1 also includes information about two wetlands within the study area that were delineated for a different project.

Table 9-1. Summary of Wetlands Delineated

	Functional Ratin				nal Rating		
Wetland	Area	HGM Class	Cowardin Class	Category	Water Quality Score	Hydrologic Score	Habitat Score
			City of Redmor	nd			
R-A	13,248 ft ² (0.30 ac)	Riverine	PEM/PSS/PFO	II	8	7	6
R-C	305 ft ² (0.01 ac)	Depressional	PEM	III	7	6	3
R-D	4,210 ft ² (0.10 ac)	Depressional	PEM	III	7	6	3
R-E ¹	9,975 ft ² (0.23 ac)	Depressional	PEM	II	8	8	4
R-GCA ²	2,831 ft ² 0.07 ac	Riverine	PEM/RAB	III	6	7	4
R-GCB ²	4,617 ft ² (0.11 ac)	Riverine	PEM/RAB	III	6	7	4
		Un	incorporated King	County ³			
KC-A ³	8,799 ft ² (0.20 ac)	Depressional	PEM	II	22	20	13
KC-B ³	1,029 ft ² (0.02 ac)	Depressional	PEM	III	22	14	7
			City of Kirklan	d			
K-B ⁴	3,047 ft ² (0.07 ac)	Depressional	PEM	IV	6	6	3
K-C ⁴	3,634 ft ² (0.08 ac)	Depressional	PEM	III	7	6	3
K-D⁵	28,254 ft ² (0.65 ac)	Depressional	PEM	III	7	7	3
K-DD	225 ft ² (0.01 ac)	Depressional	PEM	III	7	7	3
K-E	1,992 ft ² (0.05 ac)	Depressional	PEM	IV	6	6	3
K-F ¹	19,251 ft ² (0.44 ac)	Depressional	PEM/PFO	III	7	7	3
K-G	10,119 ft ² (0.23 ac)	Depressional	PEM	III	7	7	3

Table 9-1 (continued). Summary of Wetlands Delineated

				Functional Rating			
Wetland	Area	HGM Class	Cowardin Class	Category	Water Quality Score	Hydrologic Score	Habitat Score
K-H ⁴	1,486 ft ² (0.03 ac)	Depressional	PEM/PFO	III	8	7	3
K-J ¹	49,807 ft ² (1.14 ac)	Depressional	PEM/PSS/ PFO/POW	II	9	9	6
K-K ¹	16,563 ft ² (0.38 ac)	Depressional	PFO	III	6	7	3
K-L ¹	15,130 ft ² (0.35 ac)	Depressional +Riverine	PEM/PSS/ PFO/POW	II	7	7	6
K-HF ¹	25,937 ft ² (0.60 ac)	Depressional	PEM/PSS/ PFO	II	9	8	5

¹ Wetland extends beyond the study area boundary. The total acreage within the study area is given.

Table 9-2. Summary of Streams Delineated

Stream Name/ID	Associated Wetland	Area Within Study Area	Classification			
City of Redmond						
Gun Club Creek	R-A, R-GCA, R-GCB	74,357 square feet	Class III			
Stream R-2	R-C	137 square feet	Class III			
Stream R-3	R-D 21 square feet		Class III			
York Creek	R-E	579 square feet	Class III			
124th Street Stream	none 602 square feet		Class III			
Unincorporated King County						
Stream KC-1	KC-A	408 square feet	Type N			
124th Street Stream	none	1,588 square feet	Type F			
City of Kirkland						
Stream K-3	K-J	5,784 square feet	Type F			
Stream K-5	K-L	1,188 square feet	Type F			
Stream K-6	K-K 1,455 square feet Type F		Type F			
Stream K-71	K-B	154 square feet	Type Np			
¹ Area given extends beyond the study area.						

Based on wetland ratings and habitat scores, and stream ratings, appropriate buffers for these critical areas have been determined. Mapped locations of wetlands, streams, and buffers have been provided to PSE for use in planning and permitting the Sammamish-Juanita transmission line project.

² Wetlands R-GCA and R-GCB were delineated in 2017 by Parametrix (2018). Information has been included for completeness but has not been verified.

³ Note that based on the requirements in KCC 21A.24.318, the 2004 wetland rating form was used to rate the unincorporated King County wetlands.

⁴ Wetland is outside the current project study area boundary, but was mapped during earlier surveys of a larger area.

⁵ Wetland extends beyond the current study area boundary but was delineated in full. Total wetland acreage is given. HGM = hydrogeomorphic, PEM = palustrine emergent, PSS = palustrine scrub-shrub, PFO = palustrine forested, RAB = riverine aquatic bed, and POW = palustrine open water.

10.0 References

- AECOM. 2016. Puget Sound Energy Sammamish Substation Wetland Delineation and Stream Reconnaissance Report. Seattle, Washington.
- Anderson, P.S., S. Meyer, P. Olson, and E. Stockdale. 2016. Determining the Ordinary High Water Mark for Shoreline Management Act Compliance in Washington State. Washington Department of Ecology Publication Number 16-06-029. Olympia, Washington.
- Determining the Ordinary High Water Mark for Shoreline Management Act Compliance in Washington State by; Paul S. Anderson, Susan Meyer, Dr. Patricia Olson, Erik Stockdale.
- City of Kirkland. 2019. Kirkland's Enterprise Geographic Information System (GIS) Program GIS Data. Available at http://www.kirklandwa.gov/depart/Information_Technology/GIS.htm on the City of Kirkland website. Last accessed October 22, 2019.
- City of Redmond. 2005. Fish and Wildlife Habitat Conservation Areas Map (Core Preservation Areas). Redmond, Washington.
- City of Redmond. 2016. Map 64.3 Streams Classification. Available on-line at: https://www.redmond.gov/DocumentCenter/View/4056/Stream-Classification-Map-PDF.
- City of Redmond. 2019a. Redmond Zoning Map. Map 4.1 of the Redmond Zoning Code. Redmond, Washington.
- City of Redmond. 2019b. Willows Road Culvert Replacement. Available on-line at: https://www.redmond.gov/846/Willows-Road-Culvert-Replacement. Accessed August 12, 2019.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. Performed for the U.S. Department of the Interior Fish and Wildlife Service Office of Biological Services. Washington, D.C.
- Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. Western Mountains, Valleys and Coast 2016 Regional Wetland Plant List: 2016 Wetland Ratings. Phytoneuron 2016-30:1-17.
- Parametrix. 2018. Willows Road Culvert Replacement: Critical Areas Report. Prepared for City of Redmond by Parametrix, Seattle, Washington.
- The Watershed Company. 2009. Sammamish Valley Park Wetland Delineation Report. Reference No. 080906. Kirkland, Washington.
- The Watershed Company, 2020. PSE Transmission Line, Confirmation of Wetland and Stream Boundaries Peer Review Letter. January 28, 2020 Memorandum from Peter Heltzel to Jon Regala of the City of Kirkland Department of Planning and Community Development.
- USACE (U.S. Army Corps of Engineers). 1987. Corps of Engineers Wetlands Delineation Manual. Wetlands Research Program Technical Report Y-87-1. Environmental Laboratory. Washington, D.C.

- USACE. 2005. Regulatory Guidance Letter No. 05-05. Subject: Ordinary High Water Mark Identification. Signed by: Don T. Riley, Major General, U.S. Army, Director of Civil Works.
- USACE. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0). Vicksburg, Mississippi.
- USDA NRCS (U.S. Department of Agriculture National Resources Conservation Service). 2019a. Custom Soil Resource Report for King County Area, Washington. Reported generated for Redmond Study Area at the Web Soil Survey. Available on-line at: http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx.
- USDA NRCS (U.S. Department of Agriculture National Resources Conservation Service). 2019b. Custom Soil Resource Report for King County Area, Washington. Reported generated for King County Study Area at the Web Soil Survey. Available on-line at: http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx.
- USDA NRCS (U.S. Department of Agriculture National Resources Conservation Service). 2019c. Custom Soil Resource Report for King County Area, Washington. Reported generated for Kirkland Study Area at the Web Soil Survey. Available on-line at: http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx.
- U.S. Fish and Wildlife Service. 1977 to present. Wetlands and Deepwater Habitats of the Coterminous United States. National Wetland Inventory Polygon Data. Available on-line at: http://www.fws.gov/wetlands/.
- Washington Department of Ecology. 2004. Washington State Wetland Rating System for Western Washington Revised. Washington State Department of Ecology Publication #04-06-025. Olympia, Washington.
- Washington Department of Ecology. 2014. Washington State Wetland Rating System for Western Washington: 2014 Update. Washington State Department of Ecology Publication #14-06-029. Olympia, Washington.
- WDFW (Washington Department of Fish and Wildlife). 2019a. Priority Habitats and Species on the Web Interactive Mapping. Available on-line at: http://apps.wdfw.wa.gov/phsontheweb/. Last accessed August 6, 2019.
- WDFW. 2019b. SalmonScape interactive mapping system. Available on-line at: http://apps.wdfw.wa.gov/salmonscape/map.html. Last accessed August 6, 2019.
- Washington Natural Heritage Program. 2019. Element Occurrences Current. Digital data downloaded from Washington Department of Natural Resources GIS Open Data. Last Updated July 16, 2019. Accessed August 30, 2019.
- Weather Underground. 2019a. Weather History for KBFI (Boeing Field King County International Airport). Accessed online at http://www.wunderground.com.

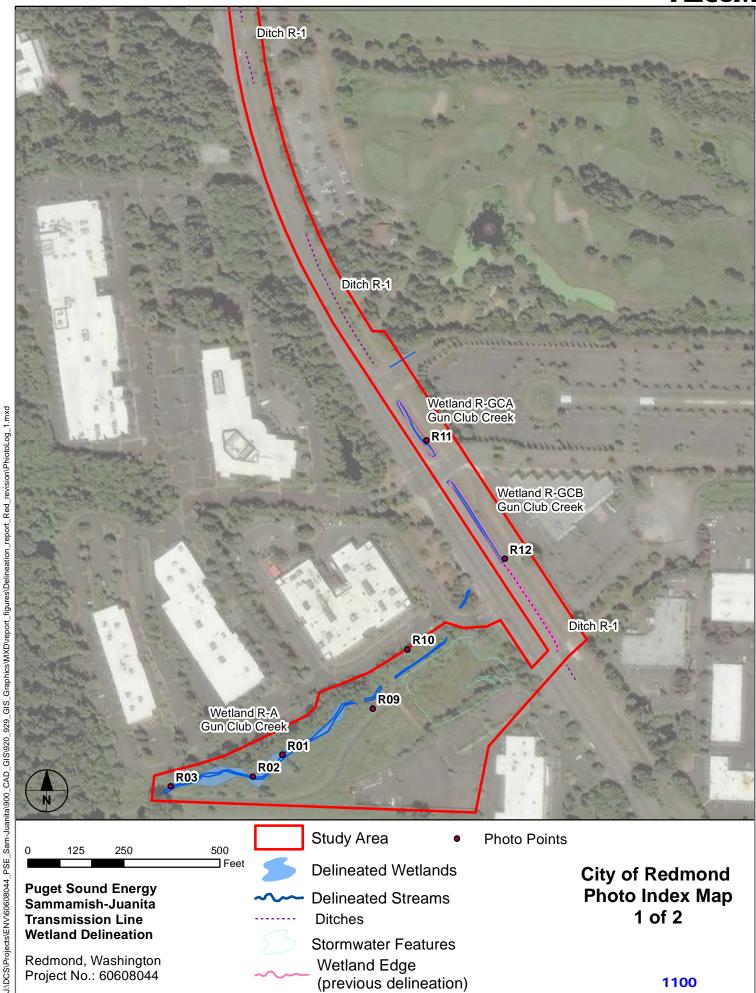
Weather Underground. 2019b. Weather History for Seattle, Washington. Available on-line at http://www.wunderground.com.

Appendix A

Photographic Logs

City of Redmond

Photographic Log



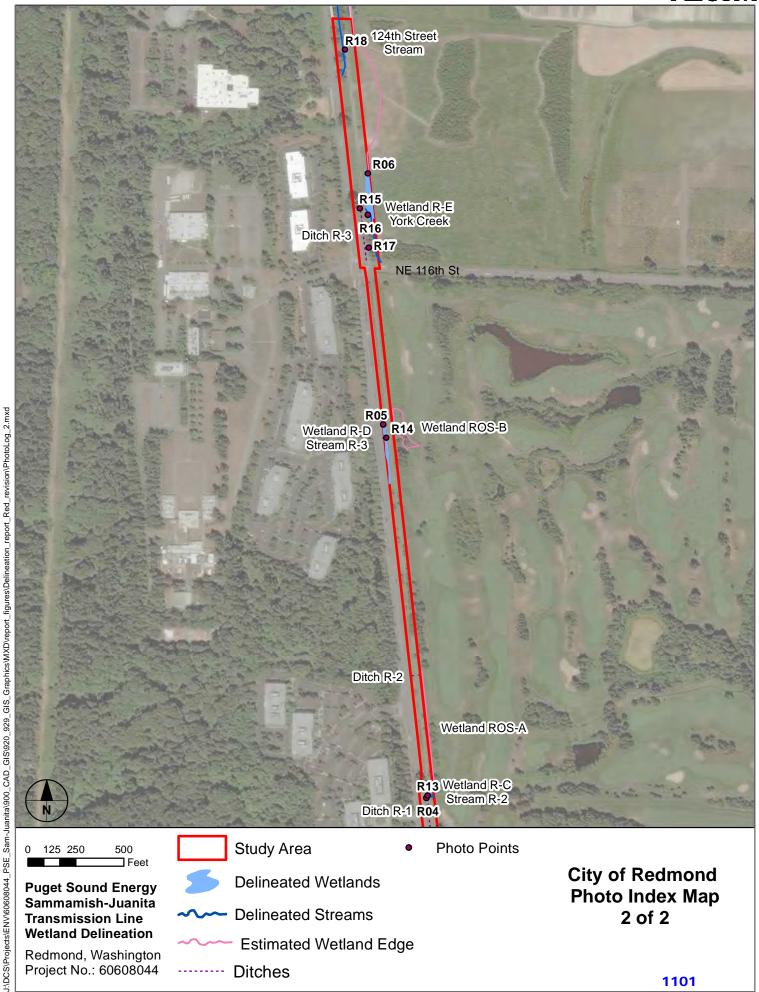


Photo R01a. Wetland R-A. Sample Plot T1-SP2. Vegetation, PFO component. View north. June 4, 2014.



Photo R01b. Wetland R-A. Sample Plot T1-SP2. Vegetation, PEM Component. View south. June 4, 2014.



Photo R01c. Wetland R-A. Sample Plot T1-SP2. Soil log hole. June 4, 2014.



Photo R02. Wetland R-A. Sample Plot T2-SP2. Soil log hole. June 4, 2014.



Photo R03. Wetland R-A. View east from west end. April 15, 2016.



Photo R04a. Wetland R-C. Sample Plot SP-F1. Vegetation. View west. April 22, 2014.



Photo R04b. Wetland R-C. Sample Plot SP-F1. Soils. June 29, 2016.



Photo R04c. Wetland R-C, Sample Plot SP-F1. Hydrology. June 29, 2016.



Photo R05a. Wetland R-D, Sample Plot SP-D1. Vegetation. April 29, 2016.



Photo R05b. Wetland R-D, Sample Plot SP-D1. Soils. April 29, 2016.



Photo R05c. Wetland R-D, Sample Plot SP-D1. Soil log hole. April 29, 2016.



Photo R06a. Wetland R-E, Sample Plot SP-B1. Vegetation and soil log hole. June 28, 2016.



Photo R06b. Wetland R-E, Sample Plot SP-B1. Soils. June 28, 2016.



Photo R07. Gun Club Creek. Representative substrate (segment west of Willows Road NE). April 15, 2016. Exact location of photo is not known and is not shown on the index map.



Photo R08. Gun Club Creek (segment west of Willows Road NE). Plastic Stream Liner. April 15, 2016. Exact location of photo is not known and is not shown on the index map.



Photo R09. Gun Club Creek (segment west of Willows Road NE). Riparian Vegetation. View West. April 15, 2016.



Photo R10. Gun Club Creek (segment west of Willows Road NE). Riparian Vegetation. View East. April 15, 2016.



Photo R11. Gun Club Creek (segment east of Willows Rd NE). View southeast. April 8, 2019.



Photo R12. Gun Club Creek (segment east of Willows Rd NE). View south. April 8, 2019.



Photo R13. Stream R-2. View west. June 28, 2016.



Photo R14. York Creek. Stagnant area adjacent to Willows Rd NE. April 8, 2019.



Photo R15. York Creek. View south. April 8, 2019.



Photo R16. York Creek. Riparian vegetation. View east. April 8, 2019.



Photo R17. 124th Street Stream. View south. April 8, 2019.



Unincorporated King County

Photographic Log

AECOM Report Environment King County A-1

Wetland KC-A, Sample Plot SP-A1. Vegetation. June 28, 2016.



Wetland KC-A, Sample Plot SP-A1. Soils. June 28, 2016



Wetland KC-A, Sample Plot SP-A1. Soil log hole. June 28, 2016.



Stream KC-1. View west. June 28, 2016.



AECOM Report Environment King County A-2

Wetland KC-B. Vegetation and ponding. June 4, 2019.



Wetland KC-B. Sample Plot SP-1. Soil log hole. June 4, 2019.



Wetland KC-B. Sample Plot SP-1. Soils. June 4, 2019.



124th Street Stream. View from north end looking southeast. April 8, 2019.



124th Street Stream. View south. April 8, 2019.



124th Street Stream. Culvert. April 8, 2019.



City of Kirkland

Photographic Log

AECOM Report Environment Kirkland A-1

Wetland K-B. View west. August 21, 2015.



Wetland K-B, Sample Plot SP-KB1. Vegetation. October 22, 2017.



Wetland K-B, Sample Plot SP-KB1. Soil Log Hole (restricted by rock). October 22, 2017.



Wetland K-B, Sample Plot SP-KB1. Hydrology. October 22, 2017.



AECOM Report Environment Kirkland A-2

Stream K-7. July 1, 2019.



Wetland K-C. View west. August 21, 2015.



Wetland K-C, Sample Plot SP-KC1. Vegetation. October 22, 2017.



Wetland K-C, Sample Plot SP-KC1. Hydrology. October 22, 2017.



Wetland K-D. Overview looking east. August 21, 2015.



Wetland K-D. Representative vegetation. August 21, 2015.



Wetland K-D, Sample Plot SP3. Soil log hole. April 16, 2014.



Wetland K-D, Sample Plot SP3. Soils. April 16, 2014.



Wetland K-D. Sample Plot SP-KD1 View northeast from railroad embankment. June 4, 2019.



Wetland K-D. Sample Plot SP-KD1. Soil Log Hole. June 4, 2019.



Wetland K-DD. Sample Plot SP-KDD1. Vegetation. June 4, 2019.



Wetland K-DD. Sample Plot SP-KDD1. Soil log hole. June 4, 2019.



Wetland K-E. Overview looking west. August 21, 2015.



Wetland K-E. Representative vegetation. August 21, 2015.



Wetland K-E, Sample Plot SP-KE1. Hydrology. October 22, 2017.



Wetland K-F. Overview looking east. August 21, 2015.



Wetland K-F. Representative PFO vegetation. October 22, 2017.



Wetland K-F, Sample Plot SP5. Soil log hole. April 17, 2014.



Wetland K-F, Sample Plot SP5. Soils. April 17, 2014.



Wetland K-F. Trashrack in wetland. August 21, 2015.



Wetland K-G. Overview and representative vegetation. View east. August 21, 2015.



Wetland K-G, Sample Plot SP7. Soils. April 17, 2014.



Wetland K-G, Sample Plot SP7. Hydrology. April 17, 2014.



Wetland K-G. Sample Plot SP-KG2. Vegetation. June 4, 2019.



Wetland K-G. Sample Plot SP-KG2. Soil log hole. June 4, 2019.



Wetland K-H. Overview. View southeast. August 21, 2015.



Wetland K-H. Representative PEM vegetation. August 21, 2015.



Wetland K-H, Sample Plot SP8. Soil log hole. April 17, 2014.



Wetland K-H. Overview. View southwest. June 4, 2019.



Wetland K-J. Overview. View northwest. August 21, 2015.



Wetland K-J. Representative vegetation near trail. August 21, 2015.



Wetland K-J, Sample Plot SP9, soils. April 17, 2014.



Wetland K-J, Sample Plot SP-KJ1. Soil log hole. October 24, 2017.



Wetland K-J, Sample Plot SP-KJ1. Soils. October 24, 2017.



Stream K-3. View east. October 20, 2017.



Stream K-3. View west. October 20, 2017.



Wetland K-K. Overview showing unchannelized standing water. View south. August 21, 2015.



Wetland K-K. Vegetation along trail. View west. August 21, 2015.



Wetland K-K, Sample Plot SP-KK1. Soil log hole and soils. October 24, 2017.



Wetland K-K, Sample Plot SP-KK1. Soils. October 24, 2017.



Wetland K-K. Sample Plot SP-KK4. Vegetation. June 4, 2019.



Wetland K-K. Sample Plot SP-KK4. Soil log hole June 4, 2019.



Wetland K-L. View south along transmission line. August 21, 2015.



Wetland K-L, Sample Plot T1-SP2. Soil log hole. June 6, 2014.



Wetland K-L, Sample Plot T2-SP2. Soil log hole. June 6, 2014.



Stream K-5. View east from project corridor. August 21, 2015.



Stream K-5. View west from project corridor. August 21, 2015.



Wetland K-L. Sample Plot KL-SP2. Vegetation. June 20, 2019.



Wetland K-L. Sample Plot KL-SP2. Soil log hole. June 20, 2019.



Wetland K-L. Sample Plot KL-SP3. Vegetation. June 20, 2019.



Wetland K-L. Sample Plot KL-SP3. Soil log hole. June 20, 2019.



Stream K-5. North segment. View downstream. June 29, 2019.



Stream K-5. North segment. View upstream. June 29, 2019.



Wetland K-HF. Representative vegetation in study area. June 20, 2019.



Wetland K-HF. Sample Plot HF-SP1. Vegetation. June 20, 2019.



Wetland K-HF. Sample plot HF-SP1. Soil log hole. June 20, 2019.



AECOM Report Environment

Appendix B

Field Data Forms

AECOM Report Environment

City of Redmond

Field Data Forms

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site: PSE Substation North Arm City/County: Redmond / King sampling Date: 10-4-201-Applicant/Owner: PSE Investigator(s): Lindattoland, Ashlen Lunde Section, Township, Range: Landform (hillslope, terrace, etc.): Tarrace Local relief (concave, convex, none): <u>LONVEX</u> Slope (%): <u>C</u> Lat: _______Long: _________Long: ______ 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 "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed?' Are Vegetation _____, Soil _____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes is the Sampled Area Hydrlc Soil Present? 107/9 8 8 12 **Yes** 2____ No 🛂 within a Wetland? Wetland Hydrology Present? Nowal Yes_ VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: 10 ft % Cover Species? Status **Number of Dominant Species** 15% 1. Bitter Chevin FALM That Are OBL, FACW, or FAC: らひる 2. Red Alder FAC **Total Number of Dominant** FAC malesums formal 20% Species Across All Strata: (B) Percent of Dominant Species 25 = Total Cover That Are OBL, FACW, or FAC: (A/B) Sapling/Shrub Stratum (Plot size: 10 ft Prevalence Index worksheet: 1. Pacific Ninibart Total % Cover of: Multiply by: 2. Gregin Gran OBL species 3. Snowbury FACW species _ FAC species FACU species = Total Cover UPL species Herb Stratum (Plot size: 1944. 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) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover Woody Vine Stratum (Plot size: 10 %. Hydrophytic Vegetation Present? = Total Cover % Bare Ground in Herb Stratum Circuid Krash trading blackberry completell bore ground. Remarks:

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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site: 85E = betation North Arm City/County: Redirary / King Sampling Date: 6-4-2014 Applicant/Owner: 25E Investigator(s): Linka Howard, Ashley Lyndu Section, Township, Range: Subregion (LRR): ___ Datum: _____ Soil Map Unit Name: __ NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes _____ No Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are Vegetation _____, Soll _____, 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. Hydrophylic Vegetation Present? Yes No_ Is the Sampled Area Hydric Soil Present? Yes No within a Wetland? Wetland Hydrology Present? Remarks: VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: So O.Y FAC Number of Dominant Species 1. Red alder That Are OBL, FACW, or FAC: Total Number of Dominant 3. Pacific willow (S. Incida Instanden 15 FACU Species Across All Strata: (B) 4. Sitka Willow FACW Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: FACW 1. Salmonberry Total % Cover of: Multiply by: OBL species FACW species FAC species FACU species _ UPL species Herb Stratum (Plot size: 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) 10 ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover Woody Vine Stratum (Plot size: Hydrophytic Carried Carried Committee Vegetation Present? = Total Cover % Bare Ground in Herb Stratum _ NONE Remarks:

•	^	1	

Sampling Point: 6-42014

Type: C=Col	Matrix Color (moist) SY 2.5/1	% 100	Redox Feature: Color (moist) %	s Type¹ L		Texture Mudd	Very Smooth, greasy, no Sanit /gravet when or
Type: C=Col Hydric Soil Ir Histosol (very smooth, greasy, no
Type: C=Col Hydric Soil Ir Histosol (J 1 1 1 200
Hydric Soil Ir Histosol (JAN 14/4/AVEL When
Hydric Soil Ir Histosol (, , , , , , , , , , , , , , , , , , , ,
Hydric Soil Ir Histosol (al assessment , emission					rubbed between finger
Hydric Soil Ir Histosol (···					
Hydric Soil Ir Histosol (······································					
Hydric Soil Ir Histosol (. , , , , , , , , , , , , , , , , , , ,	-		
Hydric Soil Ir Histosol (· 			
Hydric Soil Ir Histosol (······································	
Hydric Soil Ir Histosol (
Histosol (ncentration, D=Dep	oletion, RM=Re	duced Matrix, CS=Covered	d or Coated S	and Grai	ns. Lo	ocation: PL=Pore Lining, M=Matrix. ors for Problematic Hydric Soils ³ :
		able to all LRI	Rs, unless otherwise not	ea.)			
Histic Epi			Sandy Redox (S5)				m Muck (A10)
		Na Paramet	Stripped Matrix (S6)	1\ /avaant BBI	I DA 4\		d Parent Material (TF2) ry Shallow Dark Surface (TF12)
Black His	• •		Loamy Mucky Mineral (F Loamy Gleyed Matrix (F2		LRA I)		her (Explain in Remarks)
	n Sulfide (A4) I Below Dark Surfac	:e (A11)	Depleted Matrix (F3)	•1			and formation is a sound troop
	rk Surface (A12)	~ ()	Redox Dark Surface (F6))		3Indicat	tors of hydrophytic vegetation and
	ucky Mineral (S1)		Depleted Dark Surface (F				and hydrology must be present,
	leyed Matrix (S4)		Redox Depressions (F8)	•		unle	ess disturbed or problematic.
	ayer (if present):	***************************************	Mante-100-100-100-100-100-100-100-100-100-10	***************************************			
Туре:		·	***				
Depth (inc	:hes):			1		Hydric So	il Present? Yes No
Remarks:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
YDROLOG	GY						•
Wetland Hyd	drology Indicators	*					
Primary Indic	ators (minimum of	one required; c	heck all that apply)				ondary Indicators (2 or more required)
Surface \	Water (A1)		Water-Stained Leav	/es (B9) (exc e	ept		Water-Stained Leaves (B9) (MLRA 1, 2
✓ High Waf	ter Table (A2)		MLRA 1, 2, 4A,	and 4B)			4A, and 4B)
🖊 Saturatio	on (A3)		Salt Crust (B11)				Drainage Patterns (B10)
Water Ma	arks (B1)		Aquatic Invertebrate	as (B13)			Dry-Season Water Table (C2)
Sedimen	ıt Deposits (B2)		Hydrogen Sulfide O	dor (C1)			Saturation Visible on Aerial Imagery (C
Drift Dep	oosits (B3)		Oxidized Rhizosphe	, -	ing Roots	, ,	Geomorphic Position (D2)
Algal Ma	it or Crust (B4)	•	Presence of Reduc				Shallow Aquitard (D3)
	osits (B5)		Recent Iron Reduct				FAC-Neutral Test (D5)
	Soil Cracks (B6)		Stunted or Stressed		(LRR A)	*******	Raised Ant Mounds (D6) (LRR A)
	on Visible on Aerial		Other (Explain in R	emarks)		********	Frost-Heave Hummocks (D7)
•	/ Vegetated Concar	/e Surface (B8)				·····	
Field Observ			\ 1	ml.			
Surface Water		Yes No		na ou	- [
Water Table	Present?	Yes No		<u> </u>	. [•	\searrow
Saturation Pr		Yes V No	Depth (inches):	0" surface	~ Wetla	nd Hydrold	gy Present? Yes No
Describe Rec	corded Data (stream	n gauge, monit	oring well, aerial photos, p	revious inspe	ctions), if	available:	
			•				e de la companya de l
Dame = -1		· · · · · · · · · · · · · · · · · · ·					
Remarks:							
Remarks:							
remarks:							
	olliary fringe) corded Data (streal	n gauge, monit	oring well, aerial photos, p	revious inspe	 ctions), if	available:	· · ·

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

Project/site: PSE Substation Nov+	hArm	City/County: Red	mond I King	Sampling Date: 10-4-201
Applicant/Owner: PSE	Late L		State:	Sampling Point: T1-5P3
Investigator(s): Linda Howard, Ashle				
Landform (hillslope, terrace, etc.):	A			•
Subregion (LRR):				•
Soil Map Unit Name:			-	
Are climatic / hydrologic conditions on the site typical f				
Are Vegetation, Soll, or Hydrology				present? Yes No
Are Vegetation, Soil, or Hydrology			eeded, explain any answ	
SUMMARY OF FINDINGS – Attach site n			•	,
	_ No	12-04-2-17-28		
Hydric Soil Present? Yes		Is the Sampled within a Wetlan		No Galesia de La
Wetland Hydrology Present? Yes Remarks:	No	WILLINI A FFECIA	nar res	
Remarks:			pall the	
				Norwali e e e e e e e e e e e e e e e e e e e
/EGETATION – Use scientific names of p	plants.	effention metalling in my days and by head in the property of the finest in in financial		
	Absolute	Dominant Indicator	Dominance Test wor	ksheet:
Tree Stratum (Plot size:)	% Cover	Species? Status	Number of Dominant 8	
1			That Are OBL, FACW,	or FAC:/(A)
2			Total Number of Domi	
3		Carlotte St.	Species Across Ali Str	(b)
Sapling/Shrub Stratum (Plot size: \\)		= Total Cover	Percent of Dominant S That Are OBL, FACW,	
1. Salmonberg	100	Y FACH	Prevalence Index wo	rksheet:
2.			Total % Cover of:	
3.			OBL species	
4		- 3754.33	FACW species	
5. <u>18.00 Am Am 179 (18.00) (18.00)</u>	14,469,146	<u>. 13 Summer i Huleralli</u>	FACU species	A Part Transparence and April 1989
Herb Stratum (Plot size:)		= Total Cover	UPL species 2	1.50 0.000
1. Fring cup = 2 and see and de	18 Trace	y Nh	Column Totals: 102	· (A) 240 (B)
2. The same of the second control of the control of		. Princip politici delle	Prevelence Index	(=B/A= 2,10)
	1 2 a <u>1 grazila</u>	L REPORT OF THE	Hydrophytic Vegetati	on Indicators:
4. Reserved på waken i		E-33601 (18 17) 1683	- 186 - 170	Hydrophytic Vegetation.
5		The state of the second	2 - Dominance Te	s t is >50%
		Holder and the second of the second	→ 3 - Prevalence Ind. 1. The second of the second o	ex ls ≤3,0 ¹
7			4 - Morphological	Adaptations ¹ (Provide supporting s or on a separate sheet)
8			5 - Wetland Non-\	3.0 - Sec 1.0 - 20.0 - 20.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 - 1.0 -
9			011 No. 18	phytic Vegetation ¹ (Explain)
11		Sept spec	1 777	il and wetland hydrology must
A STATE OF THE STA		= Total Cover		urbed or problematic.
Woody Vine Stratum (Plot size:)				
1			Hydrophytic	<.
2.			Vegetation Present? Ye	ıs No
% Bare Ground in Herb Stratum 982	****	≖ Total Cover		- militaria managamina
Remarks:			J	

Profile Description: (Describe to	the depth needed to document the indicator or confirm	the absence of indicators.)
	Redox Features	, and abborra of majoreorory
Depth <u>Matrix</u> (inches) <u>Color (moist)</u>	% Color (moist) % Type ¹ Loc ²	Texture Remarks
7 440 31.	00	sandy oan
,		
	The second secon	
	was a second sec	
	ion, RM=Reduced Matrix, CS=Covered or Coated Sand G	
lydric Soil Indicators: (Applicab	le to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
_ Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	
Hydrogen Sulfide (A4) Depleted Below Dark Surface (Loamy Gleyed Matrix (F2) A11) Depleted Matrix (F3)	Other (Explain in Remarks)
Depleted below bank Surface (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:		1
Depth (inches):	•	Uhadaia Cail Dananas Van
Depai (niches).		Hydric Soil Present? Yes No
2 marka:	are, seems to be fill top soil lited matrix	Hydric Son Present? Tes No
2 marka:	wre, seems to be fill top soil ited matrix	Hydric Son Present? Tes No
Domarka:	wre, seems to be fill top soil ital matrix	Hydric Son Present? Tes No
Remarks: Soil has no structi no underlying duple	are, seems to be fill top soil itsh matrix	Hydric Son Present? TesNo
Remarks: Soil has no structions underlying duple YDROLOGY Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Remarks: Soil has no structions underlying duple YDROLOGY Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Remarks: Soil has no structo no underlying duple YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one	required; check all that apply)	
Remarks: Soil has no structe no underlying duple YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1)	e required; check all that apply) Water-Stained Leaves (B9) (except	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2
Remarks: Soil has no structe no underlying duple YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2)	e required; check 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)
Remarks: Soil has no structe no underlying duple YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)	e required; check 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 Pattems (B10) Dry-Season Water Table (C2)
Remarks: Soil has most ructions underlying duple YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	e required; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	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 (C
Pemarks: Soil has no structions underlying duple YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	e required; 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)	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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Remarks: Soil has no structions underlying closely YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	e required; 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 Roc	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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Pemarks: Soil has no structions underlying closely YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	e required; 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 Rod 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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Permarks: Soil has no structions underlying dupt YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of 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)	e required; 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 Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Cd	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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Remarks: Soil has mest ructions underlying dupts YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of 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)	e required; 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 Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Cdagery (B7)) 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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Pemarks: Soil has no struction underlying dupts Primary Indicators (minimum of 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 Im	e required; 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 Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Company) agery (B7) 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 (Catorial Catorial Catoria
Pemarks: Soil has no struction underlying duply Portland Hydrology Indicators: Primary Indicators (minimum of 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 Im Sparsely Vegetated Concave Serield Observations:	e required; 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 Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Company) agery (B7) 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 (Catorial Catorial Catoria
Pemarks: Soil has no structions underlying downstructions underlying downstructions underlying downstructions: Primary Indicators (minimum of 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 Im Sparsely Vegetated Concave Serial Observations: Surface Water Present?	e required; 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 Rod — Presence of Reduced Iron (C4) — Recent Iron Reduction in Tilled Soils (C6) — Stunted or Stressed Plants (D1) (LRR A) agery (B7) — 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 (Catorial Catorial Catoria
Pemarks: Soil has no struction would be recommended by the 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 Im Sparsely Vegetated Concave Selected Water Present? Water Table Present?	e required; 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 Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A6) agery (B7) Other (Explain in Remarks) Surface (B8) 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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Pemarks: Soil has no struction underlying duply Wetland Hydrology Indicators: Primary Indicators (minimum of 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 Im Sparsely Vegetated Concave S Field Observations: Surface Water Present? Ves Saturation Present? Yes Saturation Present? Yes Saturation Present?	e required; 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 Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) agery (B7) Other (Explain in Remarks) Surface (B8) Depth (inches): No Depth (inches): Wetter	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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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Pemarks: Soil has mestruction underlying duply YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of 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 Im Sparsely Vegetated Concave Sield Observations: Surface Water Present? Vestor Table Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present?	e required; 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 Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) agery (B7) Other (Explain in Remarks) Surface (B8) Depth (inches): No Depth (inches): Wetter	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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site PSE Substation No	oth Arm	Citv/Count	v. Nedi	MUNA / Ling Sampling Date: 64-20
Indianation DIST		(F)		State: INIX Sampling Dolot T 2 - SP
nvestigator(s): Linda Howard, AShiz .andform (hillslope, terrace, etc.):	al landa	Section, T	ownship, Ra	nge:
andform (hillslone terrace etc.):	J	Local relie	of (concave.	convex, none): Slope (%):
				Long: Datum:
soli Map Unit Name.	- this time of you	> Vos	J No	NWI classification: (If no, explain in Remarks.)
				"Normal Circumstances" present? Yes No
				eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site m	ap showing	samplin	ng point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No 💙		he Sampled hin a Wetlar	
Remarks:				
VEGETATION – Use scientific names of p		- 5		
Tree Stratum (Plot size: 1. Bisch (Betwin pmairife 2. Red Alder		Species?	t Indicator Status FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. 16 x 171001 3. 0 Her crow		7	- II/-	Total Number of Dominant
4.		= Total C		Percent of Dominant Species That Are ORL EAC'N or EAC'. (A/R)
Sapling/Shrub Stratum (Plot size:)		10ta	44	That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet:
1. Ocoans pray	<u> </u>	_7_	FUCK	Total % Cover of: Multiply by:
2. Pacitic dodisond	1 <u>0</u>	4,	CACHO	OBL species O x1=
3. Birch Suplines		<u> </u>	<u> </u>	FACW species 30 x2 = Loo
4. Bitter cherry	<u> 10</u> 10	N U	<u>tack</u>	FAC species 50 x3= 150
5. Snowberry		1.415	FALM	FACU species 135 x4= 532
Herb Stratum (Plot size:	1_	_= Total C	(### to take	UPL speciesx5=
1	-trace	N		Column Totals: 213 (A) <u>142</u> (B)
2. Equisatur 5 -50 arvensa	ticci	<u>r</u>	FAC	Prevalence Index = B/A = 3.4%
3.		<u> Patricina</u>		Hydrophytic Vegetation Indicators:
4.	(#4. 	Dj. sto A. Aveo Asmilia i Link		1 - Rapid Test for Hydrophytic Vegetation (V)
5 .		Anton Bayer. Aliakaran		2 - Dominance Test is >50%
6.				3 - Prevalence Index is ≤3.0 ¹ ♣>>
7.		·		4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ພາ
8.	The state of the s	established of a separation of	at any or the separate section of the	5 - Wetland Non-Vascular Plants ¹ No
10.			<u> </u>	Problematic Hydrophytic Vegetation¹ (Explain)
11			, Versy e	¹ Indicators of hydric soll and wetland hydrology must
	\$3580,3885	= Total Co	over	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		- ,0.0.0.		
1. RUAR (R. discolor)	<u></u>	4	FOR CIV	Hydrophytic
2		= Total Co	over	Present? Yes No
Remarks:				

Profile Description: /Desc	cribe to the do	oth needed to document the indicator or confi	Sampling Point: 12-5
		Redox Features	
Depth <u>Ma</u> (inches) Color (moi	trix st) %	Color (moist) % Type¹ Loc²	Texture Remarks
D-13 7,54R3,			- sandy gravelly loan
10 1139 1139 11 11 11 11 11 11 11 11 11 11 11 11 11			- Section diameter local
	· · · · · · · · · · · · · · · · · · ·		
Tune: C-Consortation D	-Donlotion PM	=Reduced Matrix, CS=Covered or Coated Sand (Grains. ² Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (A	nnlicable to all	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
	thbucasie to an	Sandy Redox (S5)	2 cm Muck (A10)
Histosol (A1) 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 S	Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A1		Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4).	Redox Depressions (F8)	unless disturbed or problematic.
lestrictive Layer (if prese	ent):		
Type:			
Denth (inches):		The and appears to be fill to	Hydric Soil Present? Yes No
Denth (inches):		and a second and a s And a second and a second a second and a second and a second and a second and a second a	Hydric Soil Present? Yes No
Depth (inches):		we and appears to be fill no	Hydric Soil Present? Yes No
Depth (inches): Remarks: Soil has	no struct	and a second and a s And a second and a second a second and a second and a second and a second and a second a	Hydric Soil Present? Yes No
Depth (inches): Semarks: Soil has YDROLOGY Vetland Hydrology Indica	no struct		terias .
Depth (inches): Demarks: Soll has DROLOGY Vetland Hydrology Indicators (minimum	no struct	d; check all that apply)	Secondary Indicators (2 or more required)
Depth (inches): Temarks: Soll has TOROLOGY Vetland Hydrology Indication (minimum of the control of the contr	no struct	d; check all that apply) Water-Stained Leaves (B9) (except	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2
Depth (inches): Demarks: Soll has Demarks: Soll h	no struct	d; check 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)
Depth (inches): demarks: Soll has /DROLOGY Vetland Hydrology Indication (minimum of the color) Surface Water (A1) High Water Table (A2) Saturation (A3)	no struct	d; check 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)
Depth (inches): emarks: Soll has /DROLOGY /etland Hydrology Indication (minimum indicators (minimum indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	no struct	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Depth (inches): emarks: Soll has /DROLOGY /etland Hydrology Indication (minimum of the color o	no struct	d; 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)	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 (C
Depth (inches): emarks: Soll has DROLOGY Vetland Hydrology Indication (minimum of the color of	no struct ators: m of one require	d; 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 Recognitions	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 (Coots (C3) Geomorphic Position (D2)
Depth (inches): demarks: Soll has PROLOGY Vetland Hydrology Indicators (minimus Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	no struct ators: m of one require	d; 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 Received 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 (Coots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Depth (inches): emarks: Soll has /DROLOGY /etland Hydrology Indication (incompany indicators (incompany indi	no struct ators: m of one require	d; 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 Recent Iron Reduction in Tilled Soils (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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): Iemarks: Soll has POROLOGY Vetland Hydrology Indication (minimum of the color	no struct ators: m of one require 2)	d; 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 Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C5)	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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Depth (inches): Iemarks: Soll has PROLOGY Vetland Hydrology Indication (inches): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B Inundation Visible on A	no struct ators: m of one require 2) 6) herial Imagery (E	d; 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 Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Caster Standard Control Cont	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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): Idemarks: Soll has Idemarks: Soll has Idemarks: Soll has Idenary Indicators (minimum of the second of the se	no struct ators: m of one require 2) 6) herial Imagery (E	d; 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 Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Caster Standard Control Cont	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 (Coots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Popth (inches): Remarks: Soll has YDROLOGY Vetland Hydrology Indicated (Management of the population of the populatio	no struct ators: m of one require 2) 6) herial Imagery (E	d; 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 Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Caster of Stunted or Stressed Plants (D1) (LRR 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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Depth (inches): Idemarks: Soll has PROLOGY Vetland Hydrology Indicators (minimus Indicators (minimus Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B Inundation Visible on A Sparsely Vegetated Collections: Surface Water Present?	no struct ators: m of one require 2) 6) herial Imagery (E	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 (C4) Stunted or Stressed Plants (D1) (LRR Other (Explain in Remarks) No 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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Popth (inches): Remarks: Soll has YDROLOGY Vetland Hydrology Indicators (minimus 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	no struct ators: m of one require 2) 6) kerial Imagery (E	d; 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 Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Caster of Stunted or Stressed Plants (D1) (LRR 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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Popth (Inches): Remarks: Soll has YDROLOGY Vetland Hydrology Indicators (minimum In	no struct ators: m of one require 2) 6) kerial Imagery (E	d; 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 Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Castunted or Stressed Plants (D1) (LRR Other (Explain in Remarks) No 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 (Cots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Depth (inches): Idemarks: Soll hoss POROLOGY Vetland Hydrology Indicatorismary Indicators (minimum Marker (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Ball Inundation Visible on Aall Marker Marker (B5) Surface Soil Cracks (Ball Inundation Visible on Aall Inundation Visible Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present?	no struct ators: m of one require 6) Aerial Imagery (E oncave Surface Yes Yes Yes	d; 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 Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Caster of Stressed Plants (D1) (LRR Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches): We	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 (Coots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Depth (inches): Idemarks: Soll hoss POROLOGY Vetland Hydrology Indicatorismary Indicators (minimum Marker (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Ball Inundation Visible on Aall Marker Marker (B5) Surface Soil Cracks (Ball Inundation Visible on Aall Inundation Visible Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present?	no struct ators: m of one require 6) Aerial Imagery (E oncave Surface Yes Yes Yes	d; 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 Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Castunted or Stressed Plants (D1) (LRR Other (Explain in Remarks) No 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 (Coots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

			ntains, Valleys, and Coast Region
Project/Site: PSE Substation North Av	rm (City/County: <u>Kadmov</u>	Sampling Date: 6-4-20
Anglicant/Owner: PSE		1 Jack 1	State: レッケー Sampling Point: ノンニンドー
Investigator(s): Linda Horsand / Ashley Lim	الك	Section, Township, Rar	nge:
Landform (hillslope, terrace, etc.):		Local relief (concave, c	convex, none): Slope (%):
Subregion (LRR):			
Soil Map Unit Name:			NWI classification;
Are climatic / hydrologic conditions on the site typical for th	is time of yea	ar? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology			Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			eded, explain any answers in Remarks.)
			ocations, transects, important features, etc.
<u> </u>		Sampling point it	Cauons, nansects, important reatures, etc.
Hydric Soil Present? Yes Yes Westand Hydrology Present? Yes V	No No	119 (2.1. 6.1. 6.1.	nd? Yes No
Remarks: Data plot located in stream valley or patch:	n Nedg	, at base of	multistern adder- in PH/
VEGETATION – Use scientific names of plai	nts.	i v marka selatan da s Selatan da selatan da s	radia visitati SELektrones — 1981 german - Nesperi E.,
Tree Stratum (Plot size:) 1. Red adder	Absolute % Cover 25	Dominant Indicator Species? Status Y FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		i	Total Number of Dominant
3.	J		Species Across All Strata:(B)
4.			Percent of Dominant Species
		= Total Cover	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	10	V 1	Prevalence Index worksheet:
1. Salmonberry 2. Padosier docwood		H FACW	Total % Cover of: Multiply by:
3. Paufic aire bark	10 70	FACE	OBL species x1=
4. Birch Betula	- 5	y Frey	FACW species x 2 =
5. Och and the contract materials			FAC species x3 =
Hooken Willow 10		= Total Cover	FACU species X4 =
Herb Stratum (Plot size:)		- 1 (1) (1) (1) (1) (1) (1) (1) (1)	UPL species x5 =
1. PHAR		FACW	Column Totals: (A) (B)
2. Garpus microcarpus	_ 50	y 00L	Prevalence Index = B/A =
3	e i glibe de graj.	. <u> </u>	Hydrophytic Vegetation Indicators:
4. <u>60 to the American</u>			1 - Rapid Test for Hydrophytic Vegetation
5. (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4			2 - Dominance Test is >50%
6		Spinish car actions	3 - Prevalence Index is \$3.01
0			4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
9.			5 - Wetland Non-Vascular Plants ¹
10.		walionia di Paranganja di	Problematic Hydrophytic Vegetation¹ (Explain)
11.			¹ Indicators of hydric soil and wetland hydrology must
	sgla Ai	= Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		= -	Barrio est reservicio de la composició d
1			Hydrophytic
2			Vegetation Present? Yes No
% Bare Ground in Herb Stratum		_= Total Cover	T -
Remarks:	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

						Sampling Point: T2-3P2
					or confirm	the absence of indicators.)
Depth (inches)	Matrix Color (moist)	%	Redox Fe	atures % Type ¹	Loc²	Texture Remarks
0-14	2.54 2.5/	<u> </u>	5424/la			smooth when rubbel botwon fingers
<u> </u>	2.39 2131	<u>'</u> — – – – –	724-118-		-	small (1-2") cobbles at 16"6
<u> </u>			^		****	Small C1 270 BBWS WE 10
0-2,	sand w	700 L	ed by concents	cations_		
				***************************************	***************************************	**************************************
I 		aniation DM	-Dadward Matrix CC=C	ausend or Coate	d Cond Co	ains. ² Location: PL=Pore Lining, M=Matrix.
			=Reduced Matrix, CS=Co LRRs, unless otherwis		u Sanu Gi	Indicators for Problematic Hydric Soils ³ :
Histoso		iloabio to ui	Sandy Redox (S5)			2 cm Muck (A10)
	pipedon (A2)		Stripped Matrix (S6) .		Red Parent Material (TF2)
	listic (A3)		Loamy Mucky Mine	ral (F1) (except	MLRA 1)	Very Shallow Dark Surface (TF12)
	en Sulfide (A4)		Loamy Gleyed Matr			Other (Explain in Remarks)
	ed Below Dark Surf	ace (A11)	Depleted Matrix (F3			³ Indicators of hydrophytic vegetation and
	Park Surface (A12) Mucky Mineral (S1)		Redox Dark Surface Depleted Dark Surface			wetland hydrology must be present,
-	Gleyed Matrix (S4)		Redox Depressions			unless disturbed or problematic.
	Layer (if present)		,			
Type:						
	nches):					Hydric Soil Present? Yes No
				PALLOS		
, -	ydrology Indicato					
Wetland Hy Primary Indi	drology Indicatoricators (minimum c		ed; check all that apply)			Secondary Indicators (2 or more required)
Wetland Hy Primary Indi Surface	ydrology Indicator icators (minimum c e Water (A1)		Water-Stained	I Leaves (B9) (c	except	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hy Primary Indi Surface High W	ydrology Indicator icators (minimum c e Water (A1) /ater Table (A2)		Water-Stained MLRA 1, 2	, 4A, and 4B)	except	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hy Primary Indi Surface High W Saturati	ydrology Indicator icators (minimum c e Water (A1) /ater Table (A2) iton (A3)		Water-Stained MLRA 1, 2 Salt Crust (B1	, 4A, and 4B) 1)	except	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hy Primary Indi Surface High W Saturati Water M	ydrology Indicator icators (minimum o e Water (A1) /ater Table (A2) iion (A3) Marks (B1)		Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte	, 4A , and 4B) 1) ebrates (B13)	except	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hy Primary Indi Surface High W Y Saturati Water M Sedime	ydrology Indicator icators (minimum c e Water (A1) /ater Table (A2) icion (A3) Marks (B1) ent Deposits (B2)		Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sult	, 4A , and 4B) 1) ebrates (B13) fide 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 Hy Primary Indi Surface High W Saturati Water M Sedime Drift De	ydrology Indicator icators (minimum c e Water (A1) /ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3)		Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sult Oxidized Rhiz	, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) ospheres 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) ots (C3) Geomorphic Position (D2)
Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De	ydrology Indicator icators (minimum c e Water (A1) /ater Table (A2) ition (A3) Warks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4)		Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sult Oxidized Rhiz Presence of R	, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (C	Living Roo 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) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M Iron De	ydrology Indicator icators (minimum c e Water (A1) /ater Table (A2) ition (A3) Marks (B1) ent Deposits (B2) eposits (B3) dat or Crust (B4) eposits (B5)		Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sult Oxidized Rhiz Presence of R Recent Iron R	, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (C eduction in Tille	Living Roo 4) d 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) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M Iron De Surface	ydrology Indicator icators (minimum c e Water (A1) /ater Table (A2) ition (A3) Marks (B1) ent Deposits (B2) eposits (B3) dat or Crust (B4) eposits (B5) e Soil Cracks (B6)	f one require	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhiz Presence of R Recent Iron R Stunted or Str	, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (C eduction in Tille essed Plants (E	Living Roo 4) d 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) Stallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M Iron De Surface	ydrology Indicator icators (minimum c e Water (A1) /ater Table (A2) ition (A3) Marks (B1) ent Deposits (B2) eposits (B3) dat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeri	one require	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (C eduction in Tille essed Plants (E	Living Roo 4) d 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) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M Iron De Surface Inundat Sparse	ydrology Indicators icators (minimum control of Water (A1) //ater Table (A2) //ater Table (A3) //ater	one require	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (C eduction in Tille essed Plants (E	Living Roo 4) d 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) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M Iron De Surface Inundat Sparsei	ydrology Indicators icators (minimum control e Water (A1) /ater Table (A2) /ater Table (A2) /ater Table (A2) /ater Table (B1) /ater Table (B2) /ater Table (B3) /ater Deposits (B3) /ater Deposits (B3) /ater Crust (B4) /ater Crust (B4) /ater Crust (B5) /ater Crust (B6)	of one require al Imagery (I ave Surface	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhiz Presence of R Recent Iron R Stunted or Str (B8)	, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (C eduction in Tille essed Plants (C n in Remarks)	Living Roo 4) d 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) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M Iron De Surface Inundat Sparse Field Obse	ydrology Indicators (minimum of the Water (A1) /ater Table (A2) /ater Table (A2) /ater Table (A2) /ater Table (A2) /ater Table (B3) /ater Deposits (B3) /ater Or Crust (B4) /ater Or Crust (B4) /ater Or Crust (B5) /ater Or Crust (B6) /ater Or Crust	of one require al Imagery (I ave Surface	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sult Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair (B8)	, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (C eduction in Tille essed Plants (E n in Remarks)	Living Roo 4) d 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) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M Iron De Surface Inundat Sparse Field Obse Surface Wa Water Table	ydrology Indicators (minimum of the Water (A1) /ater Table (A2) /ater Table (A2) /ater Table (A2) /ater Table (A2) /ater Table (B2) /ater Table (B2) /ater Deposits (B3) /ater Deposits (B3) /ater Orust (B4) /ater Orust (B4) /ater Orust (B5) /ater Orust (B6) /ate	al Imagery (I ave Surface Yes Yes	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair (B8) No Depth (inche: No Depth (inche:	, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (C eduction in Tille essed Plants (D n in Remarks) s): ///	Living Roo 4) d Soils (C6 01) (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) Season Stail (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M Iron De Surface Inundat Sparsei Field Obse Surface Wa Water Table Saturation F	ydrology Indicator icators (minimum ce Water (A1) Vater Table (A2) ion (A3) Warks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeri ily Vegetated Concervations: ater Present? e Present? Present?	al Imagery (I ave Surface Yes Yes	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair (B8) No Depth (inche: No Depth (inche:	AA, and 4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (C eduction in Tille essed Plants (C n in Remarks) s): /// s): /// s):	Living Roo 4) d Soils (C6 01) (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) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No
Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M Iron De Surface Inundat Sparsei Field Obse Surface Wa Water Table Saturation F	ydrology Indicator icators (minimum ce Water (A1) Vater Table (A2) ion (A3) Warks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeri ily Vegetated Concervations: ater Present? e Present? Present?	al Imagery (I ave Surface Yes Yes	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair (B8) No Depth (inche: No Depth (inche:	AA, and 4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (C eduction in Tille essed Plants (C n in Remarks) s): /// s): /// s):	Living Roo 4) d Soils (C6 01) (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) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No
Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M Iron De Surface Inundat Sparsei Field Obse Surface Wa Water Table Saturation F	ydrology Indicator icators (minimum ce Water (A1) Vater Table (A2) ion (A3) Warks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeri ily Vegetated Concervations: ater Present? e Present? Present?	al Imagery (I ave Surface Yes Yes	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair (B8) No Depth (inche: No Depth (inche:	AA, and 4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (C eduction in Tille essed Plants (C n in Remarks) s): /// s): /// s):	Living Roo 4) d Soils (C6 01) (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) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No
Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M Iron De Surface Inundat Sparsei Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re	ydrology Indicator icators (minimum ce Water (A1) Vater Table (A2) ion (A3) Warks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeri ily Vegetated Concervations: ater Present? e Present? Present?	al Imagery (I ave Surface Yes Yes	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair (B8) No Depth (inche: No Depth (inche:	AA, and 4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (C eduction in Tille essed Plants (C n in Remarks) s): /// s): /// s):	Living Roo 4) d Soils (C6 01) (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) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No
Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M Iron De Surface Inundat Sparsei Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re	ydrology Indicator icators (minimum ce Water (A1) Vater Table (A2) ion (A3) Warks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeri ily Vegetated Concervations: ater Present? e Present? Present?	al Imagery (I ave Surface Yes Yes	Water-Stained MLRA 1, 2 Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair (B8) No Depth (inche: No Depth (inche:	AA, and 4B) 1) ebrates (B13) fide Odor (C1) ospheres along teduced Iron (C eduction in Tille essed Plants (C n in Remarks) s): /// s): /// s):	Living Roo 4) d Soils (C6 01) (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) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No

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

- Orman Ali Abarba			0-1-	100
Project/Sile: PSE Substation North Arn	<u>u</u> (City/County	/: KUAM	State: 1-3 M Sampling Point: T2-5P3
Applicant/Owner: PSE		~ · · ·		State: W 124 Sampling Point: 12 37)
Investigator(s): Linda Howard, Ashley Lunch		Section, 10	ownsnip, Kai	nge:
Landform (hillslope, terrace, etc.):		Local relie	t (concave, o	convex, none): Slope (%):
Subregion (LRR):				
Soll Map Unit Name:	er afrikasioner		<u> </u>	NWI classification:
Are climatic / hydrologic conditions on the site typical for this	s time of yea	ar?Yes	No	(If no, explain in Remarks.)
Are Vegetation, Soll, or Hydrologys	ignificantly (disturbed?	Are *	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrologyn	aturally pro	blematic?	(If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	samplir	ng point le	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes N	。ソ		14 5 4 5 6 6 7	
	V .		he Sampled	Area
	<u> </u>	Witi	nin a Wetlar	id? Yes No
Remarks:				
Secretary April 12 - 12 in April 22 miles				arrage (1964) da al de la companio d La companio de la co
VEGETATION – Use scientific names of plan	te	<u>na teorito e principales esta co</u>		
VEGETATION – Ose scientific flames of plan			t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	to describility on the second of	military of the second of the	Number of Dominant Species 2
1				That Are OBL, FACW, or FAC:(A)
2.		<u></u>		Total Number of Dominant
3.				Species Across All Strata: (B)
4		- Total C		Percent of Dominant Species 40
Sapling/Shrub Stratum (Plot size:)		_= Total C	over	Inat Are OBL, FACVV, or FAC: (A/B)
1. Twinberry	90	<u> </u>	FAL	Prevalence index worksheet:
2. COSE	.40		Every.	Total % Cover of: Multiply by: OBL: species
3 SARA	20	<u> 4</u>	EBKN.	FACW species 40 x2 = 80
4. Snowberry	<u>#0</u>	-4	EAW	FAC species 90 x3 = 270
5. Rusp		<u>~</u>	FACH	FACU species /UL X4= 400
Herb Stratum (Plot size:		_= Total Co	over	UPL species
1.	•		a and a second	Column Totals: 233 (A) 750 (B)
2.		dan sisa		Prevalence Index = B/A = 3,26
3. The softenial excellences and explana	osti pėlytėj	rain rydd		Hydrophytic Vegetation Indicators:
4	<u> </u>	<u> Januari bali</u>	de la	1 - Rapid Test for Hydrophytic Vegetation
5.			-	2 - Dominance Test is >50%
6.		1) #68997 65 7555895555		3 - Prevalence Index is \$5.01
7.				4 - Morphological Adaptations¹ (Provide supporting data in Remarks or or a separate sheet)
8.	<u> </u>	and a second	<u> </u>	5 - Wetland Non-Vascular Plants
9	<u> </u>	* .p · · · · · ·	. (2.5) - (2.5) (A.)	Problematic Hydrophytic Vegetation¹ (Explain)
10.			- 126 65	Indicators of hydric soil and wetland hydrology must
The state of the s	Meteories and	= Total Co		be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	. Skalle sk	in Your de		
1. RUAR	40	4_	FUCH	Hydrophytic
2.				Vegetation Present? Yes No
% Bare Ground in Herb Stratum		_= Total Co	ver	
Remarks:	······································			1
()				
and the second s				

Profile Description: (Describe to the o	depth needed to document the indicator or confirm	Sampling Point: $\sqrt{2}$
Depth Matrix	Redox Features Color (moist) % Type ¹ Loc ²	Theresee
(inches) Color (moist) % 0 - 14 7.5 4 R 2.5/2 100		Texture Remarks
0-14 754R2,5/2100		sandy gravely low
	The second secon	Management of the traffic and

	Ties and the state of the state	·
Type: C=Concentration, D=Depletion, F	RM=Reduced Matrix, CS=Covered or Coated Sand Gr	rains. ² Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable to		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) Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Thick Dark Surface (A12) 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):		
	egi (18 milional)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Type:		Hydric Soil Present? YesNo
Type:		Hydric Soil Present? Yes No
Type:		Hydric Soil Present? Yes No
Type:		Hydric Soil Present? Yes No
Type:		Hydric Soil Present? Yes No
Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Type: Depth (inches): Remarks: YDROLOGY		Hydric Soil Present? Yes No
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators:		
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ	iired; check all that apply)	Secondary Indicators (2 or more required)
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ Surface Water (A1)	uired; check all that apply) Water-Stained Leaves (B9) (except	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2
Type: Depth (inches): Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one requested one continue of the continu	tired; check 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)
Type: Depth (inches): Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requestion of the primary Indicators (A1) High Water Table (A2) Saturation (A3)	uired; check 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)
Type: Depth (inches): Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one requested and the second seco	uired; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Type: Depth (inches): Primarks: Primary Indicators (minimum of one requesting to the primary Indicators (minimum of one req	uired; 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)	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 (C
Type:	uired; 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	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)
Type:	uired; 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)	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) Shallow Aquitard (D3)
Type:	uired; check all that apply) Water-Stained Leaves (B9) (except	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 (Cast (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type:	uired; 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)	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) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type:	uired: 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)	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 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type: Depth (inches): Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one requested 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	uired: 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)	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 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type: Depth (inches): Remarks: YDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one requested in the second in the seco	uired; 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) (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 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type:	uired; 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) De (B8)	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 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type:	uired; 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) Depth (inches): — No Depth (inches):	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 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Type:	uired; 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) Depth (inches): — No Depth (inches):	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 (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)

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

Project/Site: Savwamush Sula	itulin hudu "arm"	City/County: R	edmnd *	Sampling Date: 5/19/1
Applicant/Owner: PSE			State: WA	Sampling Point: \SPH
nvestigator(s): <u>FA/GM</u>		Section, Township), Range:	2
.andform (hillslope, terrace, etc.):		_ Local relief (conc	ave, convex, none):	Slope (%): 5
Subregion (LRR):				그 하는 기계가 바쁜 지수 있는 경험을 하는 것이 되었다. 나는 생각이 되었다.
Soil Map Unit Name:	500 - 100 -			ation:
re climatic / hydrologic conditions on	가게하다 그리고 한다는 선생하다면 <u>중요</u> 생각하다. 그는 것이다	1/	ting or production grade in a signal place.	and the second s
re Vegetation, Soil, o	and the second of the contract		하는 어느 살아 내가 살아 있는 그를 내려가 하나 없는 것이다.	present? YesNo
re Vegetation, Soil, oil				
SUMMARY OF FINDINGS – A			(If needed, explain any answe nt locations, transects	and the state of t
Hydrophytic Vegetation Present?	Yes_ <u>≻</u> No			
Hydric Soil Present?	Yes No	Is the Sam		X
Wetland Hydrology Present? Remarks:	Yes No <u>X</u> _	within a W	etland? Yes	No
E Just upslope of Cu	Paragrama Baggiran da Co	1. No hya	duriony, and a sound	
	Absolute	Dominant Indica	tor Dominance Test work	shoot:
<u>Tree Stratum</u> ₄(Plot size:1.		Species? Statu		pecies 2
2.			Total Number of Domin	
3. 4			Species Across All Stra	
Sapling/Shrub Stratum (Plot size:		_ = Total Cover	Percent of Dominant Sp That Are OBL, FACW, o	or FAC: (A/B)
1. Scotch brown		_ <u> </u>		
2. Populus balanifaa ssp	in hickosoppa 3	N FA	Total % Cover of: OBL species	Multiply by: x 1 =
3. Κοςε υ Σρ, *	2	<u> </u>	FACW species	X1
4 - Barrier A. Garrier and A. Sarakan and Alexandra and Al			FAC species	
5.		<u> - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - </u>	FACU species	x4=
lerb Stratum (Plot size:	•	_ = Total Cover	UPL species	×5=
. Holcus lanatus	n - L	YA	Column Totals:	(A)(B)
2. Ved fescue	30	T A	ि Prevalence Index	- P/A
a. Agrory sp	36	<u> </u>		
i			[19] [18] [18] [18] [18] [18] [18] [18] [18	ydrophytic Vegetation
)			2 - Dominance Tes	현대 현대 기가 등에 가장 사람이 무슨데 되는 것이 없었다.
		<u> </u>	3 - Prevalence Inde	x is ≤3.0 ¹
7			4 - Morphological A data in Remarks	daptations¹ (Provide supporting or on a separate sheet)
), <u> </u>		- <i>Millian 198</i>	5 - Wetland Non-Va	
0			Problematic Hydrop	hytic Vegetation ¹ (Explain)
1.			¹ Indicators of hydric soil be present, unless distu	and wetland hydrology must
Voody Vine Stratum (Plot size:		_= Total Cover		
. Himalayan blackber		N FAC	Hydrophytic	
			Vegetation	
	107	_= Total Cover	Present? Yes	No
% Bare Ground in Herb Stratum	· · · · · · · · · · · · · · · · · · ·			7.7.5.6st
Remarks: Hydnz vegetutni,	, but bordeling.			
n in it Some Lagrida programme, by the second	manata utma Aryti u mbasa Kabupatèn	ale diningui	and the second of the second o	

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SOIL		
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Sam	pling	Point:	

Depth	Matrix	· ·		x Features			
(inches)	Color (moist)	%	Color (moist)		vpe¹ Loc²	<u>Texture</u>	Remarks
0-6	10(R3/2	100				Sitt loam	
6-18	10YR 5/1	70	10 YR 3/4	_5_	<u>- M</u>	loamy Sand	25% rock
		-	***************************************			-	
	3			<u> </u>			
	2						
							j
17 0-0-	oncentration, D=Depl	lotion DM	-Boduced Matrix CS	S=Covered or I	Coated Sand G	Praine ² l ocs	ation: PL=Pore Lining, M=Matrix.
	ndicators: (Applica				Coated Sand C		s for Problematic Hydric Soils ³ :
Histosol		abic to aii	Sandy Redox (Muck (A10)
	pipedon (A2)	*	Stripped Matrix	2 (W. C. G.)			Parent Material (TF2)
Black His			Loamy Mucky !		xcept MLRA 1		Shallow Dark Surface (TF12)
	n Sulfide (A4)		Loamy Gleyed				r (Explain in Remarks)
	Below Dark Surface	e (A11)	Depleted Matrix				
	ırk Surface (A12)		Redox Dark Su		, T		s of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted Dark				d hydrology must be present,
	leyed Matrix (S4)		Redox Depress	ions (F8)	: 	unless	disturbed or problematic.
Restrictive L	.ayer (if present):		100				
-Type:							
Depth (inc	ches):				in the	Hydric Soil F	Present? Yes <u>(</u>
Remarks:	red Alignación de 112	4. 1. 1. 1.					
		وورست تريكاليان	iku, iku i yangappan ya	بالحسفينية بالسي	The goth appeals to the control of		
100000				Section 2 Anna			
gar the w	1	13134	- 1 V	1			
IYDROLO(GY				in the second	and the second second second	
Wetland Hyd	drology Indicators:		* 1	11.			
. 1931 14 19 19 19 19 19 19 19 19 19 19 19 19 19	ators (minimum of o	ne require	d; check all that app	y)		Secon	dary Indicators (2 or more required)
The second secon	Water (A1)		programme to the company of the comp	ined Leaves (l	39) (except	W	ater-Stained Leaves (B9) (MLRA 1, 2,
	iter Table (A2)		programme victorial and the contraction	1, 2, 4A, and			4A, and 4B)
Saturatio	A. C.		Salt Crust			Dr	ainage Patterns (B10)
77.7	arks (B1)	4 -		vertebrates (B	13)		y-Season Water Table (C2)
1000	nt Deposits (B2)		10.00.00.00	Sulfide Odor (nturation Visible on Aerial Imagery (C9)
Drift Dep					along Living Ro		eomorphic Position (D2)
	at or Crust (B4)			of Reduced In		, ,	nallow Aquitard (D3)
Iron Dep		7 7			n Tilled Soils (C		AC-Neutral Test (D5)
					nts (D1) (LRR		aised Ant Mounds (D6) (LRR A)
	Soil Cracks (B6)	maganı (D		plain in Remar	` , `	•	ost-Heave Hummocks (D7)
	on Visible on Aerial I			piain in Kemai	NS)	11	ost-rieave ricininocks (57)
	/ Vegetated Concave	s ouriace (DU)	.,,,			
Field Obser			N	l \.			
Surface Water			No Depth (ir				see.
Water Table			No X Depth (ir				Present? Yes No X
Saturation P		'es	No Depth (ir	iches):	We	tland Hydrology	Present? Yes No _X
Uncludes car	oillary fringe) corded Data (stream	daliue m	onitoring well aerial	photos, previo	us inspections), if available:	
Describe Re	Duty (JUDAIII	9-49-111		,, provid		,,	
Describe Re	,						
Describe Re			·				i Simulation
Describe Re							
Describe Re		itm or	- water tab	۷.			
Describe Re	No satura	Im or	- water tabl	۷.			
Describe Re		Im or	- wat tab	ų.			

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					ntains, Valleys, and Coast Region
Project/Site: Wetland RB	(City/Co	ounty: _	Redmo	Sampling Date: 6/4/19
Applicant/Owner: PSE	NL 3			160	State: WH Sampling Point: 5P-1
					nge:
Landform (hillslope, terrace, etc.): ewhork ment		Local	relief (c	concave, o	convex, none): $\frac{Convex}{}$ Slope (%): $\frac{30\%}{}$
Subregion (LRR):	_ Lat:				Long: Datum:
Soil Map Unit Name: In A Fud I que 19	10gm	15	and	10-5	5 Scaps NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Ye	es	No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologys	ignificantly o	disturb	bed? 15	Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology n	aturally pro	blema	itic?	(if ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	sam	pling	point l	ocations, transects, important features, etc.
	00		1-41	0	bear and the Arte of Company of State
Hydric Soil Present? Yes No			within	Sampled a Wetlan	nd? Yes No
Wetland Hydrology Present? Yes No Remarks:	<u> </u>				
Photos 192-194	Be	lou	J NC	ma	d precip
VEGETATION – Use scientific names of plant				0.00	and the second s
Tree Stratum (Plot size: 30 ft)	Absolute % Cover			ndicator Status	Dominance Test worksheet:
1. Betula papyrifera	60%	Y		FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. 0000000 x200 000000					
3.					Total Number of Dominant Species Across All Strata: (B)
4.					Percent of Dominant Species 751
Sapling/Shrub Stratum (Plot size: 15 ft)		= Tot	tal Cove	r	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)					Prevalence Index worksheet:
1. COMMEND CORRES	151/	$\overline{}$		FAC	Total % Cover of: Multiply by:
3 Pupus armeniacus	2.7			AC	OBL species x 1 =
4			— ·	110	FACW species x 2 =
5.	A				FAC species x 3 =
PER AND LOCAL		= Tota	al Cove	r	FACU species x 4 =
Herb Stratum (Plot size: 5 ft)				-0011	UPL species x 5 =
1. P Stinky bob Geranium robertianum				FACU	Column Totals (A) (B)
2. Phalaris arundinaca	51/1	- N		FACW	Prevalence Index = B/A =
3. red fescue festuca rubra 4. Demlaria cerasiformis	17.			ACU	Hydrophytic Vegetation Indicators:
5. Unknown forb	11/6	N		-7100	1 - Rapid Test for Hydrophytic Vegetation
6. Berberis Nervosa	1%	N		FACU	2 - Dominance Test is >50%
7				лСО	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 Plants ¹
10.			117		Problematic Hydrophytic Vegetation¹ (Explain)
11.					¹ Indicators of hydric soil and wetland hydrology must
		= Tota	al Cover		be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)					
1					Hydrophytic
2					Present? Yes X No X
% Bare Ground in Herb Stratum		<u>-</u> 10ta	ai COVE		
Remarks:					

Depth Matrix (inches) Color (moist)		Redox Features Color (moist) % Type¹ Loc²	
5-4 10YR 3/2.			Bam
4-18 loyRH/3	100	Na	
1 955		sealing to the season to the s	(Phone I had the state of the s
- 1 B			
	edicale 1		
Type: C=Concentration, D=D	epletion, RM	=Reduced Matrix, CS=Covered or Coated Sand G	
lydric Soil Indicators: (App	licable to al	I 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)	
_ Hydrogen Sulfide (A4)	F=== (Add)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
 Depleted Below Dark Sur Thick Dark Surface (A12) 		Depleted Matrix (F3) Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1		Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Mucky Milieral (31	•	Redox Depressions (F8)	unless disturbed or problematic.
estrictive Layer (if present			amos dotalsed of prodefinate.
Type:			
Depth (inches):			Hydric Soil Present? Yes No
remarks:	emba	nkment	
PDROLOGY	-1 (-0) 2 <u></u> 2	nkment	
YDROLOGY Vetland Hydrology Indicato	rs:		Concerdent Indicators (2) or more required)
YDROLOGY Vetland Hydrology Indicato	rs:	ed; check all that apply)	Secondary Indicators (2 or more required)
YDROLOGY Vetland Hydrology Indicator	rs:	ed; check all that apply) Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
/DROLOGY /etland Hydrology Indicato rimary Indicators (minimum e _ Surface Water (A1) _ High Water Table (A2)	rs:	ed; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
/DROLOGY /etland Hydrology Indicato rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)	rs:	ed; check all that apply) 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)
/DROLOGY /etland Hydrology Indicatorimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	rs:	ed; check all that apply) 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)
/DROLOGY /etland Hydrology Indicatorimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	rs:	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)	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
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VDROLOGY Vetland Hydrology Indicator Indicators (minimum of Indicators (Maximum of Indicators (Minimum of Indicato	rs:	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 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 Geomorphic Position (D2) Shallow Aquitard (D3)
VDROLOGY Vetland Hydrology Indicator Indicators (minimum of Minimum of Minimu	rs:	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 Roum 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) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
VDROLOGY Vetland Hydrology Indicator Indicators (minimum of the street o	rs: of one require	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 Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR 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 ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
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/DROLOGY /etland Hydrology Indicatorimary 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 Aerica	rs: of one require	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 Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A6) 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) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Vetland Hydrology Indicator Indicators (minimum of Indicators (Minim	rs: of one require al Imagery (I	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 Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A6) (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 ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Verland Hydrology Indicator 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 Aero Sparsely Vegetated Conciled Observations:	rs: of one require al Imagery (I ave Surface	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 Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A6) (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 ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Vortland Hydrology Indicator 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 Aero Sparsely Vegetated Concilied Observations: Surface Water Present? Voter Table Present?	rs: of one require al Imagery (I ave Surface Yes Yes	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 Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A6) Other (Explain in Remarks) No 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) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Vertland Hydrology Indicator 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 Concided Observations: Surface Water Present? Vater Table Present? Saturation Present? Includes capillary fringe)	rs: of one require al Imagery (I ave Surface Yes Yes Yes	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 Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Company of the Company of the Compan	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) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Vertland Hydrology Indicator 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 Concided Observations: Surface Water Present? Vater Table Present? Saturation Present? Includes capillary fringe)	rs: of one require al Imagery (I ave Surface Yes Yes Yes	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 Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A6) Other (Explain in Remarks) No 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 oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOGY Vetland Hydrology Indicator Primary Indicators (minimum of the 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 Aerical Sparsely Vegetated Concessions: Surface Water Present? Vater Table Present? Vater Table Present? Saturation Present? Saturation Present? Saturation Present? Secribe Recorded Data (street	rs: of one require al Imagery (I ave Surface Yes Yes Yes	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 Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Company of the Company of the Compan	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) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Vertland Hydrology Indicator 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 Concided Observations: Surface Water Present? Vater Table Present? Saturation Present? Includes capillary fringe)	rs: of one require al Imagery (I ave Surface Yes Yes Yes	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 Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Company of the Company of the Compan	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) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOGY Vetland Hydrology Indicator Primary Indicators (minimum of the 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 Aerical Sparsely Vegetated Concessions: Surface Water Present? Vater Table Present? Vater Table Present? Saturation Present? Saturation Present? Saturation Present? Secribe Recorded Data (street	rs: of one require al Imagery (I ave Surface Yes Yes Yes	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 Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Company of the Company of the Compan	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) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

			intains, Valleys, and Coast Region
Project/Site: Wetland RB Sammanist	人一」ないかは	County: Redr	nond King Sampling Date: 6/2/19
Applicant/Owner: PSE			State: WA Sampling Point: SP-2
Investigator(s): Hamid, + Brownell	Ser		
			convex, none): Concave Slope (%): 0-1
Subregion (LRR):			
Sail Man Unit Name: Tal A Twole Pole	15 A	-C5 s/- ach	NWI classification: PF6 / PEMI
Are climatic / hydrologic conditions on the site typical for the			. /
Are Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sa	mpling point I	ocations, transects, important features, etc.
	No	Is the Sampled	Area
	No	within a Wetlan	V
Wetland Hydrology Present? Yes I Remarks:	No		
Photos 195-199+200) (Precip	be low normal
VEGETATION – Use scientific names of pla	nts.		
Tree Stratum (Plot size: 30 ft)		ominant Indicator	Dominance Test worksheet:
	801.	y FA cw	Number of Dominant Species 3
2		711000	That Are OBL, FACW, or FAC: (A)
3.			Total Number of Dominant Species Across All Strata: (B)
4			
15 (1	<u>&</u> _=	Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft) 1. Salix asimare	51/	Y FACW	Prevalence Index worksheet:
		7 FIICW	Total % Cover of: Multiply by:
3			OBL species x 1 =
4.			FACW species x 2 =
5.	- 2 20-		FAC species x 3 =
E &	_5_=1	Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 5 ft	·	_	UPL species
1. Polynostim hydropiper water smart wee 2. Phalaris arvindinacla	70%	Y FACW	
3. Carex Obnucto	<u> </u>	N OBL	Trevalence index = D/A =
4		N CON	Hydrophytic Vegetation Indicators:
5. Persicaria hydropiper	108	N OBL	1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
6.			3 - Prevalence Index is ≤3.0¹
7		1111	4 - Morphological Adaptations¹ (Provide supporting
8			data in Remarks or on a separate sheet)
9			5 - Wetland Non-Vascular Plants ¹
10			Problematic Hydrophytic Vegetation ¹ (Explain)
11	05		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	<u>85</u> =T	otal Cover	, , , , , , , , , , , , , , , , , , , ,
1			Hydrophytic
2.			Vegetation
% Bare Ground in Herb Stratum	= T	otal Cover	Present? Yes No
Eleochons palustrus present	t outside	plot	
juncus etusus outside plot			

Depth (inches)	Color (m	/latrix	%	Color	Redo: (moist)	%	Type ¹	_Loc ²	Te	xture			Remarl	ks -	
0-5	10 YR 3		100		(IIIOist)		Type			lt logr	<u>Λ</u>		i (Çillalı	N3	
- 11		1/2	95	IOYR	u / 11	<u>/</u>						24	O	0	
9 - 11		5/1.5	65%			30%		61	30	ndy loo	1	0 />	grav		
1-18	2.5Y 5	71.5			14/4	> 307		PLan		- somo	loan	\			
					24/6 1	2	C	PLan	9 W	<u></u>	- 11		56		
				2.5	¥ 5/1	5%	D	M							
													5.		
Type: C=Co	oncentration,	D=Depl	etion. RN		Matrix. CS	S=Covered	or Coate	d Sand G	rains.	² Loca	ation: P	L=Por	e Linino	g, M=Matr	ix.
	Indicators:													ydric Soi	
_ Histosol	(A1)			San	dy Redox (S	S 5)				2 cm	Muck (A	A10)			
	pipedon (A2)				ped Matrix					_	Parent N				
_ Black Hi					ny Mucky N			MLRA 1)						e (TF12)	
	en Sulfide (A4		(011)		my Gleyed I leted Matrix)			Othe	r (Explai	in in R	emarks	3)	
	d Below Dark ark Surface (/		# (ATT)		ox Dark Su				:	3Indicator	s of hyd	ronhv	ic vege	tation and	1
_	lucky Minera				leted Dark S	` '	7)				-			present,	
	Sleyed Matrix			Red	ox Depress	ions (F8)				unless	disturb	ed or p	oroblem	natic.	
estrictive l	Layer (if pre	sent):												6.7	
Туре:														/	
Depth (inc	ches):								Hyd	Iric Soil	Present	7 Y	es	No.	
3	GY	eaf l	itter	layer			i.	.2							
3 YDROLO	-		itter	layer				2.		*					UL
YDROLO Vetland Hydrimary Indic	GY drology Indicators (minim	cators:				_	12	4			-			more requ	
/DROLO Vetland Hydrimary Indic Surface	GY drology Indi cators (minim Water (A1)	cators:			Water-Stai	ined Leave		xcept			ater-Sta	ined L		more requ (B9) (MLR	
OROLO Vetland Hydrimary Indic Surface High Wa	GY drology Indicators (minim Water (A1) ater Table (A2)	cators:			Water-Stai	ined Leave 1, 2, 4A, a		xcept		×w	ater-Sta 4A, an	ined L d 4B)	eaves ((B9) (MLR	
/DROLO /etland Hydrimary India _ Surface _ High Wa _ Saturatio	GY drology Indicators (minimal Water (A1) ater Table (A2 on (A3)	cators:			Water-Stai MLRA Salt Crust	ined Leave 1, 2, 4A, a (B11)	ind 4B)	xcept	2 42 1	Dr	ater-Sta 4A, and ainage l	ined L d 4B) Patteri	eaves (ns (B10	(B9) (MLR))	
/DROLO /etland Hydrimary Indic _ Surface _ High Wa _ Saturatic _ Water M	GY drology Indicators (minim Water (A1) ater Table (A2 on (A3) darks (B1)	cators: num of o			Water-Stai MLRA Salt Crust Aquatic Inv	ined Leave 1, 2, 4A, a (B11) vertebrates	nd 4B) s (B13)	xcept		— Dr	ater-Sta 4A, and ainage I y-Seaso	ined L d 4B) Patteri on Wa	eaves (ns (B10 ter Tabl	(B9) (MLR)) le (C2)	RA 1, 2,
/DROLO /etland Hydrimary Indic _ Surface _ High Wa _ Saturatio _ Water M _ Sedimer	GY drology Indicators (minim Water (A1) ater Table (A2 on (A3) larks (B1) nt Deposits (I	cators: num of o			Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen	ined Leave 1, 2, 4A, a (B11) vertebrates Sulfide Od	s (B13) dor (C1)		ots (C3	✓ W Dr Dr Sa	ater-Sta 4A, and ainage I y-Seaso aturation	ined L d 4B) Patteri on Wat Visibl	eaves (ns (B10 ter Tabl e on Ae	(B9) (MLR) le (C2) erial Imag	RA 1, 2,
/DROLO /etland Hydrimary India _ Surface _ High Wa _ Saturatio _ Water M _ Sedimer _ Drift Dep	GY drology Indicators (minim Water (A1) ater Table (A2 on (A3) darks (B1)	cators: num of o			Water-Stai MLRA Salt Crust Aquatic Inv	ined Leave 1, 2, 4A, a (B11) vertebrates Sulfide Od Rhizospher	s (B13) dor (C1) res along	Living Ro	ots (C3	Dr Dr Sa Sa	ater-Sta 4A, and rainage I y-Seaso aturation eomorph	ined L d 4B) Patteri on Wat Visibl	eaves (ns (B10 ter Tabl e on As sition (D	(B9) (MLR) le (C2) erial Imag	RA 1, 2,
YDROLO Vetland Hydrimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep	drology Indicators (minimal Water (A1) ater Table (A3) ater (B1) ater (B1) ater (B3) ater (B3) ater (B3)	cators: num of o			Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F	ined Leave 1, 2, 4A, a (B11) vertebrates Sulfide Od Rhizospher of Reduce	s (B13) dor (C1) res along d Iron (C4	Living Ro		Dr Dr Sa St	ater-Sta 4A, and ainage I y-Seaso aturation	ined L d 4B) Pattern on Wa Visible nic Pos quitare	eaves (ns (B10 ter Tabl e on As sition (D d (D3)	(B9) (MLR) le (C2) erial Imag	RA 1, 2,
YDROLO Vetland Hydrimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep X. Algal Ma	GY drology Indicators (minimal Water (A1) ater Table (A2) ater (B1) at Deposits (B3) at or Crust (B3)	cators: num of o			Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence	ined Leave 1, 2, 4A, a (B11) vertebrates Sulfide Od Rhizospher of Reduce in Reduction	s (B13) dor (C1) res along d Iron (C4 on in Tille	Living Rook) (1) d Soils (C	6)	W Dr Dr St	ater-Star 4A, and rainage I ry-Seasc aturation reomorph nallow A	ined L d 4B) Pattern on War Visible nic Pos quitare ral Tes	eaves (B10 der Table on Assition (D3) st (D5)	(B9) (MLR) le (C2) erial Imag	RA 1, 2,
YDROLO Vetland Hydrimary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep X. Algal Ma Iron Dep Surface	drology Indicators (minimal Water (A1) ater Table (A2) ater (B1) at Deposits (B3) at or Crust (B3) at or Crust (B4) Soil Cracks (On Visible on Visible on Crust (B4)	cators: burn of o	ne requir	ed; check :	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro	ined Leave 1, 2, 4A, a (B11) vertebrates Sulfide Od Rhizospher of Reduce n Reduction	s (B13) dor (C1) res along d fron (C4 on in Tiller	Living Rook) (1) d Soils (C	6)		ater-Star 4A, and rainage I ry-Seasc aturation reomorph nallow A	ined L d 4B) Patter on Wai Visible nic Pos quitar ral Tes	eaves (B10 der Table on Assition (D3) st (D5) and (D6)	(B9) (MLR)) le (C2) erial Image (C2)	RA 1, 2,
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	DATA FORI	M – Wester	n Mou	ntains, Valleys, and Coast Region
Project/Site: Wet and R-B		City/County.	Redn	1000 / King Sampling Date: 6/1/19
Applicant/Owner: DSE				State: Sampling Point: SP-3
11001000 100000		Section, Town	ship, Rai	nge:
Landform (hillslope, terrace, etc.):	-57	Local relief (co	oncave, o	convex, none): Concore Slope (%): 0 -
Subregion (LRR):				Long: Datum:
				NWI classification: PEMIC
Are climatic / hydrologic conditions on the site typical for		,		
Are Vegetation, Soil, or Hydrology				
Are Vegetation, Soil, or Hydrology				eded, explain any answers in Remarks.)
				THE RESERVE AND ADDRESS OF THE PARTY OF THE
		sampling	point ic	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X	No	Is the S	Sampled	Area o /
Hydric Soil Present? Wetland Hydrology Present? Yes Yes	No		a Wetlan	. (
Remarks:			10.	
0,000		4-4-4	PNO	x05 201-203
Pracip below	NOV	Mu		
VEGETATION - Use scientific names of pl	ants.			
Tree Stratum (Plot size: 30)	Absolute			Dominance Test worksheet:
1. Salix lasionera	10%	Species? S	ACW	Number of Dominant Species
2.		<u> </u>	11~W	That Are OBL, FACW or FAC: (A)
3.		16		Total Number of Dominant Species Across All Strata: (B)
4				
15		= Total Cover	-	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 5	1011	V	FACW	Prevalence Index worksheet:
1. Corrix sericle 2. Salix sytchersis	10%		ACW	Total % Cover of: Multiply by:
3. Salix lasjondra	10./	\rightarrow $-$	FACW	OBL species x 1 =
4			71000	FACW species x 2 =
5.				FAC species x 3 =
The same of the		= Total Cover	120.77	FACU species x 4 =
Herb Stratum (Plot size:	50%	Y	ng!	UPL species x 5 = Column Totals: (A) (B)
1. Eleachans Palustris 2. Rubus armeniacus	10%	N 7	OBL FAC	
3. Phalaris arundinacec	20%		Acw	Prevalence Index = B/A =
4. Rumen crispus	17.		AC	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
5. Carex obneption	57.		BL	2 - Dominance Test is >50%
6.	6.0 4 7.1			3 - Prevalence Index is ≤3.0¹
7				4 - Morphological Adaptations (Provide supporting
8				data in Remarks or on a separate sheet)
9				5 - Wetland Non-Vascular Plants ¹
10				Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must
11			_	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		= Total Cover		
1				Hydrophytic
2.				Vegetation X
307		= Total Cover		Present? Yes / No
% Bare Ground in Herb Stratum 30/, Remarks:				

Secondary County	Depth _ (inches)	Matrix Color (moist)	%	Color (moist)	<u>Features</u> %	Type ¹	Loc ²	Texture		Remarks	
Comparison Com			· —	Color (moist)		Type	LOC		CI MA	Remarks	
Comparison Com	7 - 11			7 000 11/1							
In In In In In In In In	5-11 1/m	2.54 912	& Z		15		100	SmoyIC	CLYV)		
Continue	44 7 X			2.54 511	3	n	<u> </u>				
Continue	to the			- 22	<u>- 0 - </u>	50.0	<u> </u>	1	4 11	2.5	
Continue				- 1111	The state of the s		<u> </u>	- 1 1	4		
Type:	11-16	164R413	85	107R414	15	<u> </u>	$\overline{\mathcal{M}}$	Sondylo	JW.		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining, M=Matrix, volvic Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histoso (A1)	1/-19	2 - 4 11/2	- Q - C	IONE HIL	1			Isanu Cia	. 50.4l		
Indicators (Applicable to all LRRs, unless otherwise noted.) Histosopi (A1)				17 S (7 F/1	15	-				H	
Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histo Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Bepth (inches): Hydric Soil Present? Yes No Depth (inches): Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (A3) Sediment Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Sediment Deposits (B3) Surface Soil Cracks (B6) Recent Inn Reduction in Titled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Pepth (inches): Wetland Hydrology Indicators: ### Cand Company Indicators (2 or more required) ### Water-Stained Leaves (B9) (except MLRA 1, 4, 4, 4, and 4B) ### Saturation (A3) Saturation (A4) Saturation (A4) Saturation (A4)							ed Sand Gra				
Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Gleyed Matrix (F3) Redox Dark Surface (F7) Sandy Gleyed Matrix (F3) Redox Dark Surface (F6) Surface Water Ain Surface (F7) Redox Dark Surface (F8) Water Matrix (F3) Freshert? Yes No Depth (inches): Water Matrix (F2) Christ Garage Matrix (F3) Algal Mat or Crust (F4) Iron Deposits (F8) Surface Soil Cracks (F8) Sur	- 100		able to al			:u.)					ric soils .
Black Histic (A3)	100 00	•									
Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Seed Matrix	700					\	MI DA 4				TE49\
Depleted Below Dark Surface (A11)							(WLKA 1)				11-12)
Thick Dark Surface (A12)			~ (A44))		Otne	r (Explain	in Remarks)	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Destrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No Moral National Present (Page 1): Depth (inches): Surface Water (A1) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (except High Water-Stained Leaves (B9) (man 4B) And 4B) Saturation (A3) Sait Crust (B11): Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Drainage Patterns (B10) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Surfacion Visible on Aerial Imagery (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) The Care Soil Cracks (B6) The Care Soil Cracks (B6) The Care Soil Cracks (B8) The Care Soil Cracks (B6) The Ca			e (ATT)					3 pdicates	e of budee	nhydio yogota	tion and
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if present): Type:		, ,				7\					
PAROLOGY Wetland Hydrology Indicators: Intimary Indicators (minimum of one required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Salt Crust (B11) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Ad, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) FAC-Neutral Test (D5) Inon Deposits (B5) Surface Soil Cracks (B6) Situnted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No Desercibe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						')					
Type:		·		Redux Deplessi	ons (Fo)			uriless	disturbet	or problema	10.
Hydric Soil Present? Yes No No No No No No No No		ayer (ii present):									
Vetland Hydrology Indicators: rimary Indicators (minimum of one required: check all that apply) Secondary Indicators (2 or more required)	130100111111111111111111111111111111111										
Vettand Hydrology Indicators: Irimary Indicators (minimum of one required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Saturation (A3) Water Marks (B1) Water Marks (B1) Aquatic Invertebrages (B13) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Ield Observations: Foot-Heave Hummocks (D7) Wetland Hydrology Present? Yes No Depth (inches):	Depth (inch	nes):						Hydric Soil	Present?	Yes	_ No
Surface Water (A1)	/DROLOG	ay .						-			
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) Surface Water Present? Yes No Depth (inches): Drift Deposits (A3) MLRA 1, 2, 4A, and 4B) Ad, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) Saturation Visible on Aerial Imagery (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Depth (inches): Vater Table Present? Yes No Depth (inches): Depth (inches): Vestiand Hydrology Present? Yes No Depth (inches): D						-	_ = =				
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 (C2) Drift Deposits (B3) Oxidized Rhizospheres along Living 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 Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Security (inches): Wetland Hydrology Present? Yes No Depth (inches): Security (inches): Wetland Hydrology Present? Yes No Depth (inches): Security (inches): Wetland Hydrology Present? Yes No Depth (inches): Security (inches): Wetland Hydrology Present? Yes No Depth (inches): Security (inches): Wetland Hydrology Present? Yes No Depth (inches): Security (inches): Wetland Hydrology Present? Yes No Depth (inches): Security (inches): Wetland Hydrology Present? Yes No Depth (inches): Security (inches): Wetland Hydrology Present? Yes No Depth (inches): Security (inches): Wetland Hydrology Present? Yes No Depth (inches): Security (inches): Wetland Hydrology Present? Yes No Depth (inches): No Depth (inches): Security (inches): Wetland Hydrology Present? Yes No Depth (inches): No Depth (Vetland Hydr	rology Indicators		ed; check all that apply)		, a	Secon	dary Indic	ators (2 or mo	re required)
Water Marks (B1)	Vetland Hydr Primary Indica	rology Indicators: ators (minimum of o				es (B9) (e	xcept	2 (2)			
	Vetland Hydr Primary Indica Surface W	rology Indicators: ators (minimum of a Vater (A1)		Water-Stair	ned Leave		xcept	2 (2)	ater-Stain	ed Leaves (B	
	Vetland Hydr Primary Indica Surface W High Wate	rology Indicators: ators (minimum of o Vater (A1) er Table (A2)		Water-Stair	ned Leave		except	×w	ater-Stain	ed Leaves (B9 4B)	
	Vetland Hydr Vrimary Indica Surface W High Wate Saturation	rology Indicators: ators (minimum of e Vater (A1) er Table (A2) n (A3)		Water-Stair MLRA 1 Salt Crust (ned Leave I, 2, 4A, a (B11)	nd 4B)	xcept	<u>×</u> w	ater-Stain 4A, and ainage Pa	ed Leaves (B9 4B) tterns (B10)	9) (MLRA 1, 2,
Algal Mat or Crust (B4)	Vetland Hydr Primary Indica Surface W High Wate Saturation Water Male	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) riks (B1)		Water-Stain MLRA 1 Salt Crust (Aquatic Inv	ned Leave I , 2, 4A, a (B11) ertebr <i>â</i> tes	nd 4B)	xcept	Dr	ater-Stain 4A, and ainage Pa y-Season	ed Leaves (B9 4B) tterns (B10) Water Table	9) (MLRA 1, 2 ,
	Vetland Hydr Primary Indica Surface W High Wate Saturation Water Mar Sediment	rology Indicators: ators (minimum of of Vater (A1) er Table (A2) n (A3) rrks (B1) Deposits (B2)		Water-Stain MLRA 1 Salt Crust (Aquatic Inv	ned Leave I , 2, 4A, a (B11) ertebr <i>â</i> ţes Sulfide Od	nd 4B) s (B13) lor (C1)		Dr Dr Sa	ater-Stain 4A, and ainage Pa y-Season aturation V	ed Leaves (B9 4B) tterns (B10) Water Table e isible on Aeria	(C2) (Magery (C9)
	Vetland Hydr Vrimary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo	rology Indicators: ators (minimum of of Vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) osits (B3)		Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen S Oxidized R	ned Leave I, 2, 4A, a (B11) ertebr a tes Sulfide Od hizospher	nd 4B) s (B13) lor (C1) res along	Living Root		ater-Stain 4A, and ainage Pa y-Season aturation V	ed Leaves (B9 4B) tterns (B10) Water Table e isible on Aeria Position (D2)	(C2) (Magery (C9)
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 No Depth (inches): Vater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Security Fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Vetland Hydr Primary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo	rology Indicators: ators (minimum of of Vater (A1) er Table (A2) in (A3) irks (B1) Deposits (B2) osits (B3) or Crust (B4)		Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen 3 Oxidized R Presence c	ned Leave I, 2, 4A, a (B11) ^a rertebr a es Sulfide Od hizospher of Reduce	nd 4B) s (B13) lor (C1) res along d Iron (C-	Living Root	Dr Dr Sa ds (C3) ★ Ga St	ater-Stain 4A, and ainage Pa y-Season aturation Vecomorphic nallow Aqu	ed Leaves (B9 4B) tterns (B10) Water Table edisible on Aeria Position (D2) itard (D3)	(C2) (Magery (C9)
Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Seturation Present? Yes No Depth (inches): Seturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Seturation Present? Yes No Seturation Present? Yes No Depth (inches): Depth (inches):	Vetland Hydr Primary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo	rology Indicators: ators (minimum of of Vater (A1) er Table (A2) in (A3) irks (B1) Deposits (B2) osits (B3) or Crust (B4) osits (B5)		Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen 3 Oxidized R Presence c Recent Iror	ned Leave I, 2, 4A, a (B11)* rertebr a es Sulfide Od hizospher of Reduce n Reduction	nd 4B) s (B13) lor (C1) res along d Iron (C-	Living Root 4) d Soils (C6)	Dr Dr Sa As (C3) ★ Go Sh FA	ater-Stain 4A, and ainage Pa y-Season aturation Vecomorphic allow Aqu AC-Neutra	ed Leaves (B9 ### (B10) ### Water Table ### isible on Aeric ### Position (D2) ### itard (D3) Test (D5)	(C2) (MLRA 1, 2, (C2) (C9)
Surface Water Present? Yes No Depth (inches):	Primary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Surface S	rology Indicators: ators (minimum of of Vater (A1) er Table (A2) in (A3) inks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) Goil Cracks (B6)	one require	Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron Stunted or	ned Leave I, 2, 4A, a (B11) ^a rertebr a es Sulfide Od hizospher of Reduce on Reduction Stressed	s (B13) lor (C1) res along d Iron (Co on in Tille Plants (D	Living Root 4) d Soils (C6)		ater-Stain 4A, and ainage Pa y-Season aturation Vecomorphic allow Aqu AC-Neutra aised Ant	ed Leaves (B9 #B) tterns (B10) Water Table (isible on Aeric Position (D2) itard (D3) Test (D5) Mounds (D6)	(C2) (MLRA 1, 2, 1) (C2) (C2) (C9) (C9) (LRR A)
Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Vetland Hydr Vrimary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation	rology Indicators: ators (minimum of of Vater (A1) er Table (A2) in (A3) inks (B1) Deposits (B2) posits (B3) or Crust (B4) posits (B5) soil Cracks (B6) in Visible on Aerial	one require	Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen 3 Oxidized R Presence c Recent Iron Stunted or Other (Exp	ned Leave I, 2, 4A, a (B11) ^a rertebr a es Sulfide Od hizospher of Reduce on Reduction Stressed	s (B13) lor (C1) res along d Iron (Co on in Tille Plants (D	Living Root 4) d Soils (C6)		ater-Stain 4A, and ainage Pa y-Season aturation Vecomorphic allow Aqu AC-Neutra aised Ant	ed Leaves (B9 #B) tterns (B10) Water Table (isible on Aeric Position (D2) itard (D3) Test (D5) Mounds (D6)	(C2) (MLRA 1, 2, 1) (C2) (C2) (C9) (C9) (LRR A)
Vater Table Present? Yes No Depth (inches): Baturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No	Vetland Hydr Vrimary Indica Surface W High Wate Saturation Water Man Sediment Drift Depo Algal Mat Iron Depo Surface S Inundatior Sparsely V	rology Indicators: ators (minimum of of Vater (A1) er Table (A2) in (A3) in (A3) in (A3) Deposits (B2) Dosits (B3) or Crust (B4) dosits (B5) Goil Cracks (B6) in Visible on Aerial Vegetated Concav	one require	Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen 3 Oxidized R Presence c Recent Iron Stunted or Other (Exp	ned Leave I, 2, 4A, a (B11) ^a rertebr a es Sulfide Od hizospher of Reduce on Reduction Stressed	s (B13) lor (C1) res along d Iron (Co on in Tille Plants (D	Living Root 4) d Soils (C6)		ater-Stain 4A, and ainage Pa y-Season aturation Vecomorphic allow Aqu AC-Neutra aised Ant	ed Leaves (B9 #B) tterns (B10) Water Table (isible on Aeric Position (D2) itard (D3) Test (D5) Mounds (D6)	(C2) (MLRA 1, 2, 1) (C2) (C2) (C9) (C9) (LRR A)
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Vetland Hydr Primary Indica Surface W High Water Saturation Water Man Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Sparsely William	rology Indicators: ators (minimum of of Vater (A1) er Table (A2) in (A3) inks (B1) Deposits (B2) iosits (B3) or Crust (B4) iosits (B5) ioil Cracks (B6) in Visible on Aerial Vegetated Concav ations:	ne require Imagery (E e Surface	Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen 5 Oxidized R Presence c Recent Iror Stunted or Other (Exp	ned Leave I, 2, 4A, a (B11)* ertebrate Sulfide Od hizospher of Reduce n Reduction Stressed Iain in Rei	s (B13) lor (C1) res along d Iron (Con on in Tille Plants (D marks)	Living Root 4) d Soils (C6) 1) (LRR A)		ater-Stain 4A, and ainage Pa y-Season aturation Vecomorphic allow Aqu AC-Neutra aised Ant	ed Leaves (B9 #B) tterns (B10) Water Table (isible on Aeric Position (D2) itard (D3) Test (D5) Mounds (D6)	(C2) (MLRA 1, 2, 1) (C2) (C2) (C9) (C9) (LRR A)
includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Vetland Hydr Primary Indica Surface W High Water Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Sparsely Field Observa	rology Indicators: ators (minimum of of Vater (A1) er Table (A2) in (A3) inks (B1) Deposits (B2) iosits (B3) or Crust (B4) iosits (B5) ioil Cracks (B6) in Visible on Aerial Vegetated Concav ations: r Present?	Imagery (E e Surface	Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen 3 Oxidized R Presence of Recent Iron Stunted or Stunted or Other (Exp	ned Leave I, 2, 4A, a (B11)* ertebrätes Sulfide Od hizospher of Reduce n Reduction Stressed Iain in Res	s (B13) lor (C1) res along d Iron (Con on in Tille Plants (D marks)	Living Root 4) d Soils (C6) 1) (LRR A)	→ W	ater-Stain 4A, and ainage Pa y-Season aturation Vecomorphic allow Aqu AC-Neutra aised Ant	ed Leaves (B9 #B) tterns (B10) Water Table (isible on Aeric Position (D2) itard (D3) Test (D5) Mounds (D6)	(C2) (MLRA 1, 2, 1) (C2) (C9) (C9) (LRR A)
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Remarks:	Vetland Hydr Primary Indica Surface W High Water Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Surface S Inundatior Sparsely V Field Observator Vater Table P Saturation Pre	rology Indicators: ators (minimum of of Vater (A1) er Table (A2) in (A3) irks (B1) Deposits (B2) iosits (B3) or Crust (B4) iosits (B5) iolic Cracks (B6) in Visible on Aerial Vegetated Concav ations: r Present?	Imagery (Ee Surface	Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen 3 Oxidized R Presence of Recent Iror Stunted or Other (Exp (B8) No Depth (inc	ned Leave I, 2, 4A, a (B11)* rertebrates Sulfide Od hizospher of Reduces n Reduction Stressed Iain in Reservations	s (B13) lor (C1) res along d Iron (C- on in Tille Plants (C- marks)	Living Root 4) d Soils (C6) 1) (LRR A)		ater-Stain 4A, and ainage Pa y-Season aturation Vecomorphic nallow Aqu AC-Neutra aised Ant l ost-Heave	ed Leaves (B9 4B) tterns (B10) Water Table (isible on Aeric Position (D2) itard (D3) Test (D5) Mounds (D6) Hummocks ((C2) (C2) (al Imagery (C9) (LRR A) (D7)
Remarks:	Primary Indica Surface W High Water Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Surface S Inundatior Sparsely Field Observa Surface Water Water Table P Saturation Pre includes capil	rology Indicators: ators (minimum of of Vater (A1) er Table (A2) in (A3) inks (B1) Deposits (B2) issits (B3) or Crust (B4) issits (B5) isoil Cracks (B6) in Visible on Aerial Vegetated Concav ations: r Present? Present? Islary fringe)	Imagery (Ee Surface 'es 'es	Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen 3 Oxidized R Presence of Recent Iror Stunted or Other (Exp (B8) No Depth (inc	ned Leave 1, 2, 4A, a (B11)* rertebrates Sulfide Od hizospher of Reduce n Reductio Stressed lain in Red ches):	s (B13) lor (C1) res along d Iron (C- on in Tille Plants (C- marks)	Living Root 4) d Soils (C6) 1) (LRR A)	Y W Dr Dr Sa St (C3) ★ Gr Sr Fr Fr And Hydrology	ater-Stain 4A, and ainage Pa y-Season aturation Vecomorphic nallow Aqu AC-Neutra aised Ant l ost-Heave	ed Leaves (B9 4B) tterns (B10) Water Table (isible on Aeric Position (D2) itard (D3) Test (D5) Mounds (D6) Hummocks ((C2) (C2) (Imagery (C9) (LRR A) (LRR A)
	Wetland Hydr Primary Indica Surface W High Water Saturation Water Man Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Sparsely V Field Observa Surface Water Water Table P Saturation Pre (includes capil	rology Indicators: ators (minimum of of Vater (A1) er Table (A2) in (A3) inks (B1) Deposits (B2) issits (B3) or Crust (B4) issits (B5) isoil Cracks (B6) in Visible on Aerial Vegetated Concav ations: r Present? Present? Islary fringe)	Imagery (Ee Surface 'es 'es	Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen 3 Oxidized R Presence of Recent Iror Stunted or Other (Exp (B8) No Depth (inc	ned Leave 1, 2, 4A, a (B11)* rertebrates Sulfide Od hizospher of Reduce n Reductio Stressed lain in Red ches):	s (B13) lor (C1) res along d Iron (C- on in Tille Plants (C- marks)	Living Root 4) d Soils (C6) 1) (LRR A)	Y W Dr Dr Sa St (C3) ★ Gr Sr Fr Fr And Hydrology	ater-Stain 4A, and ainage Pa y-Season aturation Vecomorphic nallow Aqu AC-Neutra aised Ant l ost-Heave	ed Leaves (B9 4B) tterns (B10) Water Table (isible on Aeric Position (D2) itard (D3) Test (D5) Mounds (D6) Hummocks ((C2) (C2) (Imagery (C9) (LRR A) (LRR A)
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	Primary Indica Surface W High Water Saturation Water Man Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Sparsely V Field Observa Surface Water Water Table P Saturation Pre (includes capil	rology Indicators: ators (minimum of of Vater (A1) er Table (A2) in (A3) inks (B1) Deposits (B2) issits (B3) or Crust (B4) issits (B5) isoil Cracks (B6) in Visible on Aerial Vegetated Concav ations: r Present? Present? Islary fringe)	Imagery (Ee Surface 'es 'es	Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen 3 Oxidized R Presence of Recent Iror Stunted or Other (Exp (B8) No Depth (inc	ned Leave 1, 2, 4A, a (B11)* rertebrates Sulfide Od hizospher of Reduce n Reductio Stressed lain in Red ches):	s (B13) lor (C1) res along d Iron (C- on in Tille Plants (C- marks)	Living Root 4) d Soils (C6) 1) (LRR A)	Y W Dr Dr Sa St (C3) ★ Gr Sr Fr Fr And Hydrology	ater-Stain 4A, and ainage Pa y-Season aturation Vecomorphic nallow Aqu AC-Neutra aised Ant l ost-Heave	ed Leaves (B9 4B) tterns (B10) Water Table (isible on Aeric Position (D2) itard (D3) Test (D5) Mounds (D6) Hummocks ((C2) (C2) (al Imagery (C9) (LRR A) (D7)

Project/Site: Wetland R-B	./1	Intains, Valleys, and Coast Region
Applicant/Owner: PSE		State: WA Sampling Point 30-W
Investigator(s): Balunu + Hamidi Landform (hillslope, terrace, etc.): Corporated	Section, Township, Ra	inge:
Subregion (LRR):		
Soil Map Unit Name: INA Indianola	•	
Are climatic / hydrologic conditions on the site typical for the		
Are Vegetation, Soil, or Hydrology		
Are Vegetation, Soil, or Hydrology		eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sampling point I	ocations, transects, important features, etc
	is the Sampled	d Area nd? Yes No
Remarks:		
Photo	204 pr	ecip below Mountal
VEGETATION – Use scientific names of plan		
Tree Stratum (Plot size: 30	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.		Total Number of Dominant
3.		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) 1. Holodiscus discolor	5 N FACU	Prevalence Index worksheet:
2. Cornus Sericea	10 N FACW	Total % Cover of: Multiply by:
3.		OBL species x 1 =
4		FACW species x 2 = FAC species x 3 =
5	90	FACU species x 4 =
Herb Stratum (Plot size:	= Total Cover	UPL species x 5 =
1- Rubus armeniacus	751 Y FAC	Column Totals: (A) (B)
2. Phalaris arundinacea	101/ Y FACW	Prevalence Index = B/A =
3. Elegation polisias	28	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 Adaptations ¹ (Provide supporting
8.		data in Remarks or on a separate sheet)
9		5 - Wetland Non-Vascular Plants ¹
10.		Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
11.	10 = Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		
1		Hydrophytic
2	= Total Cover	Present? Yes No
% Bare Ground in Herb Stratum	TO(8) COVE	
Remarks:		

Depth	Matrix		Redox Features		
(inches)	Color (moist)	%	Color (moist) % Type ¹ Lo	oc ² Texture	Remarks
0-6	10YR 3/2	100		gravely	sandy loam
1-12	10YR 4/3	100		gravely	loarly sand
6 10	1011-113	10-		- Gravey	1CMING 300 EX
	<u> 244 </u>				
Je III	Marie I				2 1 40,0, 77
	-				
			educed Matrix, CS=Covered or Coated Sa		ation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
-		able to all Lh	And the second s		
Histosol	• •		Sandy Redox (S5)	U (45 N)	Muck (A10)
	pipedon (A2)	_	_ Stripped Matrix (S6)		Parent Material (TF2)
	istic (A3) en Sulfide (A4)	_	Loamy Gloved Matrix (F2)		Shallow Dark Surface (TF12)
_ , ,	d Below Dark Surface	- (Δ11) —	_ Loamy Gleyed Matrix (F2) _ Depleted Matrix (F3)	Othe	r (Explain in Remarks)
25. 70.00	ark Surface (A12)		Redox Dark Surface (F6)	3Indicator	s of hydrophytic vegetation and
	Aucky Mineral (S1)	_	Depleted Dark Surface (F7)		d hydrology must be present,
	Gleyed Matrix (S4)		Redox Depressions (F8)		disturbed or problematic.
	Layer (if present):		- 1.541 -		
Туре:				_	* =
Depth (in	ches):		_	Hydric Soil	Present? Yes No 🕺
Remarks:					
	fill	embor	kneet near tronsp	nission to	Wer
	GY	embo	knest near trons	MISSUM TO	Wer
Wetland Hy	GY drology Indicators:		-/		
Wetland Hy Primary Indi	GY drology Indicators: cators (minimum of o		check all that apply)	Secon	dary Indicators (2 or more required)
Wetland Hy Primary India Surface	GY drology Indicators: cators (minimum of or Water (A1)		check all that apply) Water-Stained Leaves (B9) (except	Secon	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hy Primary India Surface High Wa	GY drology Indicators: cators (minimum of o Water (A1) ater Table (A2)		check all that apply) Water-Stained Leaves (B9) (exception of the body and the body and the body are the body and the body are the	Secon	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hy Primary India Surface High Wa	GY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3)		check all that apply) Water-Stained Leaves (B9) (exception of the content of	<u>Secon</u> ot W Dr	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10)
Wetland Hy Primary India Surface High Wa Saturati Water M	drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1)		check all that apply) Water-Stained Leaves (B9) (exception of the content of	Secon W Dr Dr	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2)
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Wetland Hy Primary India Surface High Wa Saturati Water M Sedimel Drift De Algal Ma Iron Dep Surface Inundati	drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial In y Vegetated Concave	ne required; o	check all that apply) Water-Stained Leaves (B9) (exception of the content of the	Secon W Dr Secon Sec	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-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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Wetland Hy Primary India Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dep Surface Inundati Sparsely Field Obser	drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial In y Vegetated Concave vations: er Present?	magery (B7) e Surface (B8)	check all that apply) Water-Stained Leaves (B9) (exception of the content of the	Secon W Dr Secon Sec	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-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 India Surface High Wa Saturati Water M Sedimel Drift De Algal Ma Iron Dep Surface Inundati Sparsel Field Obser Surface Wat Water Table Saturation P (includes ca)	drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial In y Vegetated Concave vations: er Present? Present? Yeresent? Yeresent? Yeresent?	magery (B7) e Surface (B8) es No es No	check all that apply) Water-Stained Leaves (B9) (exception 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 So Stunted or Stressed Plants (D1) (L Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Secon	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-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) ost-Heave Hummocks (D7)
Vetland Hy Primary India Surface High Wa Saturati Water M Sedimel Drift Del Algal Ma Iron Dep Surface Inundati Sparsel Gurface Wat Vater Table Saturation P Includes cal	drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial In y Vegetated Concave vations: er Present? Present? Yeresent? Yeresent? Yeresent?	magery (B7) e Surface (B8) es No es No	check all that apply) Water-Stained Leaves (B9) (exception 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 So Stunted or Stressed Plants (D1) (L Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Secon	dary Indicators (2 or more required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ainage Patterns (B10) y-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) ost-Heave Hummocks (D7)

WETLAND DETERMINATION D			ni Maka Nika di Masara ■ nada ada ini mada Kana di kamadi anata manika mala	Carlos Trans, and Line
Project/Site: Sammanish to Jaunite	<u> 5</u> City/	County: New Ir	Sa Sa	mpling Date: 6-29-
Applicant/Owner:			State: <u>ルガ</u> Sa	mpling Point: 21-121
nvestigator(s): Hamidi, M2Jiq	\$4.0 45 00 mm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1004 - 1004 - 1005 93	STEEL OF CONTRACT PROPERTY OF STEEL ASSESSMENT OF ST	
andform (hillslope, terrace, etc.):	Lat:		Long:	Datum:
Soil Map Unit Name: India vola Loam	4 sand,	0-5851	NWI classificatio	n: <u>PEMC</u>
Are climatic / hydrologic conditions on the site typical for the			The state of the s	
Are Vegetation, Soil, or Hydrology	significantly distu	rbed? Are	"Normal Circumstances" pres	ent? Yes <u>X</u> No
Are Vegetation, Soil, or Hydrology	naturally problem	natic? (If ne	eeded, explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sar	noling point l	ocations, transects, in	nportant features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No No No	Is the Sampled within a Wetlar	Area	
Remarks: Phodos 2354-2358 Wet	land	R-E C	south End) r	orth Bodry)
/EGETATION – Use scientific names of plan	nts.			
Tree Stratum (Plot size:		minant Indicator ecles? Status	Dominance Test workshe Number of Dominant Speci That Are OBL, FACW, or FA	13
2.			Total Number of Dominant	
4.			Species Across All Strata: Percent of Dominant Species	(B)
Sapling/Shrub Stratum (Plot size: 15°)	<u></u>	otal Cover	That Are OBL, FACW, or FA	AC: (A/B)
1. Robes armanisas	3	FAC	Prevalence Index worksho	
2	2.0		Total % Cover of:	
		** *** *******************************	OBL species	A SA PERMANDA DA PERMANDA DA PERMANDE PARA PERMANDE PARA PERMANDA PERMANDA PERMANDA PERMANDA PERMANDA PERMANDA
4.			FAC species	_ x3=
5.	3		FACU species	
Herb Stratum (Plot size: 5	<u> </u>	otal Cover	UPL species	_ x5=
1. Phalaris around/watere	100 Y	α <u>ν FA</u> CU <u>FA</u> CU	Column Totals:	_ (A) (B)
2. Alopecurus protensis	_ 20 _	FACW	Prevalence Index = B	/A ≖
3 Agrophyron (reprus)	<u> </u>		Hydrophytic Vegetation in	dicators:
4. Prysium arutus		<i>Fac_</i>	1 - Rapid Test for Hydro	
5. Galivan su 6 Holcus langtus		FAC	2 - Dominance Test is >	
7 (00 50,		1112	3 - Prevalence Index is	
8. Equisation televited		FACU	data in Remarks or d	ations¹ (Provide supporting on a separate sheet)
9		na salu minus is in i	5 - Wetland Non-Vascu	ar Plants ¹
10		es la companya de la	Problematic Hydrophytic	vegetation¹ (Explain)
11.		<u> - (- (- (- (- (- (- (- (- (- </u>	¹ Indicators of hydric soil and be present, unless disturbed	
Woody Vine Stratum (Plot size: /5'		lal Cover	be present, unless disturbed	or problematic.
1		And the second second second		1997 - Night Specification of the American and the Commission of the American Specific (1997) (1997) (1997) (1 1997) - Night Specification of the American Specific (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997)
``			Hydrophytic Vegetation	
% Bare Ground in Herb Stratum	= Tot	al Cover	Present? Yes <u>\(\)</u>	<u> </u>
Remarks:				

Profile Description: (Describe to the dep	th needed to document the indicator or	confirm the absence of indicators.)
Depth Matrix	Redox Features	<u></u>
(inches) Color (moist) %	Color (moist) % Type ¹	Loc ² Texture Remarks
D-16 1048 3/1 980	10483/2 Z E 1	n SL
11 = 20 7 51 113 95	1008 4/3 E C	MPLSLA/S
10 50 5134 115 12		
And the second s		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
1 24 W 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	・ 1 (後報)、 PMS は me 準 1 () () ())。	Proceedings of the second of t
¹ Type: C=Concentration, D=Depletion, RM:	Reduced Matrix, CS=Covered or Coated S	Sand Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Solls 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 M	LRA 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):		The second of th
Type: NONE	en e	~
Depth (inches):		Hydric Soil Present? Yes No No
Demarke		<u> </u>
Spil compared to	peop beau surface upland Pit >OM	, some Rodox
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one require	d; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (exc	ept 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 Liv	ring 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 S	
I	Stunted or Stressed Plants (D1)	
I SUITACE SOR LITACKS (MD)	0.000 0. 00000	(======================================
Surface Soil Cracks (B6)	7) Other (Evolain in Remarks)	Frost-Heave Hummocks (D7)
Inundation Visible on Aerial Imagery (B		Frost-Heave Hummocks (D7)
Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Frost-Heave Hummocks (D7)
Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Field Observations:	B8)	Frost-Heave Hummocks (D7)
Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Field Observations:		Frost-Heave Hummocks (D7)
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Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, model)	No K Depth (inches): No K Depth (inches): No K Depth (inches): Depth (inches): positoring well, aerial photos, previous inspe	Wetland Hydrology Present? Yes 🔀 Noctions), if available:
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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region Project/Site: SPMMAMISH - JUANITA City/County: REDMOND Sampling Date: 6.28.11 State: Sampling Point: SP-B2 Applicant/Owner: PSE Investigator(s): P · H Section, Township, Range: __ Landform (hillslope, terrace, etc.): __ Local relief (concave, convex, none): Con V Cy Slope (%): Subregion (LRR): ____Lat: Long: Soil Map Unit Name: Indiquola Loany Sand 0-52 Slopes NWI classification: Uplawo 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 Soll Present? Wetland Hydrology Present? within a Wetland? Remarks: upland plot point with R-E (south ENd) 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: OBL species x1= FACW species ____ x 2 = ____ FAC species _ ___x3≖_ FACU species _ ■ Total Cover UPL species Herb Stratum (Plot size: 1. Schedonoros procesia (arundinaccusto Column Totals: ___ FAC 2. Agrostis capillaris Prevalence Index = B/A = 3. Galium aparine Hydrophytic Vegetation Indicators: PAC 4. Fairston avene 1 - Rapid Test for Hydrophytic Vegetation FAC 5. Closium arvenu 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) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover Hydrophytic Vegetation Present?

% Bare Ground in Herb Stratum _____ Remarks: GCossy Field

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	ark Surface (A12)		_ Redox Dark Sur					- ·		regetation and
	Mucky Mineral (S1)		_ Depleted Dark S	•	7)			-		be present,
	Gleyed Matrix (S4)		Redox Depress	ions (F8)			unles	ss disturbe	ed or prol	olematic.
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24	·						1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		n	M
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WETLAND DETERMINATION DA	化重量铁钢 多点处理 4年 4年 4月 1年 4年 8月 1月		2011년의 전환 중점은 중요나를 하는 10 Telephone (1920)	na Coast Region
Project/Site: Sammanish to Jaco	计GCity/(County: RAM	novel	Sampling Date; <u>6-28</u> -
Applicant/Owner: PSE.			State: WA	Sampling Point: <u>SP-B</u>
nvestigator(s): Hamid	Secti			
andform (hillslope, terrace, etc.): Dapyression				1 Caule Slope (%): 7
사용 보다는 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	The state of the s		_ Long:	
Soil Map Unit Name: Alder wood gr.				
	0			
ve climatic / hydrologic conditions on the site typical for th			(If no, explain in	
re Vegetation, Soil, or Hydrology				"present? Yes No
re Vegetation, Soil, or Hydrology		alah marangan dalah	eeded, explain any ansv	egeneral material in a consideration of the constant of the co
SUMMARY OF FINDINGS – Attach site map	showing san	npling point le	ocations, transect	ts, important features, etc
	No No	Is the Sampled	Area .	
- A Transian - A Tr	No	within a Wetlan	waki mama a sa	No
Remarks: Photos 2359 to 2363	a tanangka, optiska	IN U	vetlart 9.	5 wither R.
		(50	suth end,	South boundary)
EGETATION – Use scientific names of plar	nts.			
Tree Stratum (Plot size: 15')		minant Indicator	Dominance Test wo	
1	- A COVEL Spe	icles i Status	Number of Dominant That Are OBL, FACW	
2			A STATE OF THE STA	
3.			Total Number of Dom Species Across All St	
4.				
1,00		otal Cover	Percent of Dominant : That Are OBL, FACW	
Sapling/Shrub Stratum (Plot size: 5)	te - Janeary	A. S. San Hayayanan and	Prevalence Index wo	
1			Total % Cover of:	
2		~	OBL species	x1 =
	arakin ara dan ara sagaini tuwa a		FACW species	x2=
			FAC species	x3=
		otal Cover	Alternative American Company	x4=
Herb Stratum (Plot size: 5			The state of the s	x5=
1. Phalaxis grundingces	100 4	ns FACU	Column Totals:	(A) (B)
2 Vicia Sh			Prevalence Inde	ex = B/A =
	The state of the s		Hydrophytic Vegetat	tion Indicators:
	—, (1 		1 - Rapid Test for	· Hydrophytic Vegetation
	- 18. E .		2 - Dominance Te	∍st is >50%
5			3 - Prevalence Inc	dex is ≤3.0 ¹
	and the great and the		4 - Morphological data in Remar	Adaptations ¹ (Provide supporting ks or on a separate sheet)
3 3			5 - Wetland Non-	
10	- 	and the second	TV 177 Common Million SV City Commission S	ophytic Vegetation ¹ (Explain)
11. The second of the second o		and the second second	 ACC TO A SECURE AND A SECURE AN	oil and wetland hydrology must
	/۩ = Tot	al Cover	be present, unless dis	turbed or problematic.
Noody Vine Stratum (Plot size:)				
i .			Hydrophytic	
			Vegetation	N
% Bare Ground in Herb Stratum	100 = Tot	al Cover	Present? Yo	esNo

^	~	
v		
	~	

rofile Description: (Describe to the de			or or confirm	i the absence o	r indicators.)	
Depth <u>Matrix</u> Inches) Color (moist) %	Redox F Color (moist)	Features W Type	Loc ²	Texture	Remarks	
The state and the first	Coloi (moist)	76 TYPE		Loan		(
D-14 109K2/1 100	- 2 1111				high om a	9.0 E
14-20 2154 51/85	- 10412111 -	<u> 15 C</u>		Sicc.		
والرابيس مولأ وليساه وبالأماسية						
\$ 1 × 1 × 1						
				•		:
			<u> </u>			
vpe: C=Concentration, D=Depletion, RN	M=Reduced Matrix CS=0	Covered or Coa	ted Sand Gr	ains ² l oca	tion: PL=Pore Lining, M=Ma	triy
ydric Soil Indicators: (Applicable to a			aca cana ci		for Problematic Hydric So	
Histosol (A1)	Sandy Redox (S5)				Muck (A10)	
_ Histosof (A4) _ Histic Epipedon (A2)	Stripped Matrix (S				Parent Material (TF2)	
Black Histic (A3)	Loamy Mucky Min		pt MLRA 1)		Shallow Dark Surface (TF12)	
_ Hydrogen Sulfide (A4)	Loamy Gleyed Ma		•		(Explain in Remarks)	
_ Depleted Below Dark Surface (A11)	Depleted Matrix (F					
Thick Dark Surface (A12)	Redox Dark Surfa	ce (F6)			of hydrophytic vegetation an	
_ Sandy Mucky Mineral (S1)	Depleted Dark Sur			wetland	d hydrology must be present,	
_ Sandy Gleyed Matrix (S4)	Redox Depression	ns (F8)		unless	disturbed or problematic.	
estrictive Layer (if present):						
- IVan-				1		
Type:					9 .a.	
Depth (inches):			·	Hydric Soil P	resent? Yes No	
Depth (inches):emarks:				Hydric Soll P	resent? Yes No	
Depth (inches):emarks:				Hydric Soil P	resent? Yes No	
Depth (inches):emarks: /DROLOGY /etland Hydrology Indicators:	and check all that gooks					
Depth (inches):emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one require		M. Lawrence (700)		Second	ary Indicators (2 or more req	uiręd)
Depth (inches):emarks: **DROLOGY **Tetland Hydrology Indicators: rimary Indicators (minimum of one require Surface Water (A1)	Water-Staine	ed Leaves (B9)		Second	lary Indicators (2 or more requiter-Stained Leaves (B9) (ML	uired)
Depth (inches): emarks: **TOROLOGY **Total Hydrology Indicators: rimary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Water-Staine MLRA 1,	2, 4A, and 4B)		Second	ary Indicators (2 or more requirer-Stained Leaves (B9) (ML)	uired)
Depth (inches): emarks: //DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one require _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3)	Water-Staine MLRA 1, Salt Crust (B	2, 4A, and 4B) 11)		Second Wa	lary Indicators (2 or more requiter-Stained Leaves (B9) (ML) 4A, and 4B) sinage Patterns (B10)	uired)
Depth (inches):	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver	2, 4A, and 4B) 11) rtebrates (B13)		Second Wa Dra Dry	ary Indicators (2 or more requiter-Stained Leaves (B9) (ML) 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2)	uired) RA 1, 2,
Depth (inches):	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1)		Second Wa Dra Dry Sal	ary Indicators (2 or more requiter-Stained Leaves (B9) (ML) 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2) turation Visible on Aerial Imag	uired) RA 1, 2,
Depth (inches): emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi	2, 4A, and 4B) (11) rtebrates (B13) ulfide Odor (C1) zospheres alor) ng Living Roc	Second — Wa — Dra — Dra — Sal ats (C3) Ge	lary Indicators (2 or more requester-Stained Leaves (B9) (MLI 4A, and 4B) ainage Patterns (B10) a-Season Water Table (C2) duration Visible on Aerial Imagonorphic Position (D2)	uired) RA 1, 2,
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary 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-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) izospheres alor Reduced Iron () ng Living Roc C4)	Second — Wa — Dra — Dry — Sat ats (C3)	lary Indicators (2 or more requiter-Stained Leaves (B9) (MLI 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2) turation Visible on Aerial Image omorphic Position (D2) allow Aquitard (D3)	uired) RA 1, 2,
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary 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-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron f	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) izospheres alor Reduced Iron (Reduction in Til) ng Living Roc C4) Iled Soils (C6	Second Wa Dra Dry Sat Sts (C3) Ge Shi FA	lary Indicators (2 or more requiter-Stained Leaves (B9) (MLI 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2) turation Visible on Aerial Image omorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5)	uired) RA 1, 2, gery (C9)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary 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)	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron f Stunted or St	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres alor Reduced Iron (Reduction in Til tressed Plants) ng Living Roc C4) lled Soils (C6 (D1) (LRR A	Second Wa Dra Sal Sal Shall Shall Shall Rai	lary Indicators (2 or more requiter-Stained Leaves (B9) (MLI 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2) turation Visible on Aerial Image omorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR 4)	uired) RA 1, 2, gery (C9)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary 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-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron f Stunted or St B7) Water-Staine	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) izospheres alor Reduced Iron (Reduction in Til) ng Living Roc C4) lled Soils (C6 (D1) (LRR A	Second Wa Dra Sal Sal Shall Shall Shall Rai	lary Indicators (2 or more requiter-Stained Leaves (B9) (MLI 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2) turation Visible on Aerial Image omorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5)	uired) RA 1, 2, gery (C9)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary 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	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron f Stunted or St B7) Water-Staine	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres alor Reduced Iron (Reduction in Til tressed Plants) ng Living Roc C4) lled Soils (C6 (D1) (LRR A	Second Wa Dra Sal Sal Shall Shall Shall Rai	lary Indicators (2 or more requiter-Stained Leaves (B9) (MLI 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2) turation Visible on Aerial Image omorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR 4)	uired) RA 1, 2, gery (C9)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary 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 lield Observations:	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron f Stunted or St B7) Other (Explain	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) izospheres alor Reduced Iron (Reduction in Til tressed Plants in in Remarks)) ng Living Roc C4) lled Soils (C6 (D1) (LRR A	Second Wa Dra Sal Sal Shall Shall Shall Rai	lary Indicators (2 or more requiter-Stained Leaves (B9) (MLI 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2) turation Visible on Aerial Image omorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR 4)	uired) RA 1, 2, gery (C9)
Depth (inches): emarks: //DROLOGY //etland Hydrology Indicators: rimary 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 (inches Sparsely Vegetated Concave Surface Iteld Observations: Surface Water Present? Yes	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron f Stunted or St B7) Other (Explain	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres alor Reduced Iron (Reduction in Til tressed Plants in in Remarks) es):) ng Living Roc C4) lled Soils (C6 (D1) (LRR A	Second Wa Dra Sal Sal Shall Shall Shall Rai	lary Indicators (2 or more requiter-Stained Leaves (B9) (MLI 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2) turation Visible on Aerial Image omorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR 4)	uired) RA 1, 2, gery (C9)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary 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 (inches Sparsely Vegetated Concave Surface inches Surface Water Present? Ves	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron f Stunted or St B7) Other (Explain	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres alor Reduced Iron (Reduction in Til tressed Plants in in Remarks) es):) ng Living Roc C4) Iled Soils (C6 (D1) (LRR A	Second Wa Dra Dry Sal Sts (C3)	lary Indicators (2 or more requiter-Stained Leaves (B9) (MLI 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2) turation Visible on Aerial Imagomorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR 4 ast-Heave Hummocks (D7)	uired) RA 1, 2, gery (C9)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary 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 ield Observations: urface Water Present? //ater Table Present? Yes aturation Present? Yes aturation Present? Yes	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron f Stunted or St B7) Other (Explain	2, 4A, and 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres alor Reduced Iron (Reduction in Til tressed Plants in in Remarks) es):) ng Living Roc C4) Iled Soils (C6 (D1) (LRR A	Second Wa Dra Dry Sal Sts (C3)	lary Indicators (2 or more requiter-Stained Leaves (B9) (MLI 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2) turation Visible on Aerial Image omorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR 4)	uired) RA 1, 2, gery (C9)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary 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 (Inches Sparsely Vegetated Concave Surface Ield Observations: urface Water Present? //ater Table Present?	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron f Stunted or St B7) Other (Explain (B8) No Depth (inche	2, 4A, and 4B) 11) 11) 11betherates (B13) 1lfide Odor (C1) 1zospheres alor Reduced Iron (Reduction in Til 1tressed Plants 1in in Remarks) es): es): es):	ng Living Roc C4) Iled Soils (C6 (D1) (LRR A	Second Wall Dra Dry Sal Sts (C3) Ge Shi FAi Fro	lary Indicators (2 or more requiter-Stained Leaves (B9) (MLI 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2) turation Visible on Aerial Imagomorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR 4 ast-Heave Hummocks (D7)	uired) RA 1, 2, gery (C9)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary 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 (Indicated Water Present? Vater Table Present? Yes Vater Table Present? Ves	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron f Stunted or St B7) Other (Explain (B8) No Depth (inche	2, 4A, and 4B) 11) 11) 11betherates (B13) 1lfide Odor (C1) 1zospheres alor Reduced Iron (Reduction in Til 1tressed Plants 1in in Remarks) es): es): es):	ng Living Roc C4) Iled Soils (C6 (D1) (LRR A	Second Wall Dra Dry Sal Sts (C3) Ge Shi FAi Fro	lary Indicators (2 or more requiter-Stained Leaves (B9) (MLI 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2) turation Visible on Aerial Imagomorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR 4 ast-Heave Hummocks (D7)	uired) RA 1, 2, gery (C9)
Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary 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 ield Observations: urface Water Present? Yes vater Table Present? Yes aturation Present? Yes aturation Present? Yes includes capillary fringe) vescribe Recorded Data (stream gauge, needs	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron f Stunted or St B7) Other (Explain (B8) No Depth (inche	2, 4A, and 4B) 11) 11) 11betherates (B13) 1lfide Odor (C1) 1zospheres alor Reduced Iron (Reduction in Til 1tressed Plants 1in in Remarks) es): es): es):	ng Living Roc C4) Iled Soils (C6 (D1) (LRR A	Second Wall Dra Dry Sal Sts (C3) Ge Shi FAi Fro	lary Indicators (2 or more requiter-Stained Leaves (B9) (MLI 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2) turation Visible on Aerial Imagomorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR 4 ast-Heave Hummocks (D7)	uired) RA 1, 2, gery (C9)
Depth (inches): emarks: //DROLOGY //etland Hydrology Indicators: rimary 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 Ield Observations: surface Water Present? Vater Table Present? Vater Table Present? Ves Includes capillary fringe)	Water-Staine MLRA 1, Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron f Stunted or St B7) Other (Explain (B8) No Depth (inche	2, 4A, and 4B) 11) 11) 11betherates (B13) 1lfide Odor (C1) 1zospheres alor Reduced Iron (Reduction in Til 1tressed Plants 1in in Remarks) es): es): es):	ng Living Roc C4) Iled Soils (C6 (D1) (LRR A	Second Wall Dra Dry Sal Sts (C3) Ge Shi FAi Fro	lary Indicators (2 or more requiter-Stained Leaves (B9) (MLI 4A, and 4B) sinage Patterns (B10) r-Season Water Table (C2) turation Visible on Aerial Imagomorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR 4 ast-Heave Hummocks (D7)	uired) RA 1, 2, gery (C9)

WETLAND DETERMINATION	DATA FORM -	- Western Mou	ıntains, Valleys, and Coast Region
Project/Site: SOMMMISH - ALM HT	City	County REOM	NO Sampling Date 6 28.14
Applicant/Owner 257			Sampling Date: 6 26 16 Sampling Point: 5 P - 84
Investigator(s): P. H. G. M	Sar	tion Township Ps	ange:
Landform (hillslope, terrace, etc.): Rail Vin Sto	Re 10		convex, none): Neve Slope (%): 5
Subregion (LRR):	•		Long: Datum:
			NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for	()		그 그 그 가슴, 그 그 그 그 그 그 그 그 가는 그 그 그 가는 그 그 그 그 그 그
Are Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
The company of the co		TAMERICA Anna Santa Santa and Anna Anna Anna Anna Anna Anna Anna	en arrente de la companya de la com La companya de la co
	ap showing sa	impling point i	ocations, transects, important features, etc
Hydrophytic Vegetation Present? Yes 14 Hydric Soil Present? Yes	No No	is the Sampled	i Area
Wetland Hydrology Present? Yes			nd? Yes No <u>X</u>
1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	to the first partiering of the first	+ C _V	Jetland RTE,
	(South	end 5	outh boundary)
			, o (1 1 2 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2
VEGETATION – Use scientific names of p			
<u>Tree Stratum</u> (Plot size:)		ominant Indicator pecies? Status	Dominance Test worksheet: Number of Dominant Species
			That Are OBL, FACW, or FAC:(A)
2.			Total Number of Dominant
3			Species Across Ali Strata: (B)
4.			Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 32	· ·	Total Cover	That Are OBL, FACW, or FAC: (A/B)
1. Cubus a menuns		Y PAC	Prevalence Index worksheet: Total % Cover of: Multiply by:
2.		· · · · · · · · · · · · · · · · · · ·	OBL species x1=
3.			FACW species x 2 =
4. 			FAC species x 3 *
	10 =7	Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)			UPL species x 5 =
1. Phin larus arandinacia	<u> </u>	Y FACIN	Column Totals: (A) (B)
2. Sousin Never		N FAC	Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
5			1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
6. 4.			3 - Prevalence Index is ≤3.0¹
7.			4 - Morphological Adaptations¹ (Provide supporting
8.			data in Remarks or on a separate sheet)
9.		and the second s	5 - Wetland Non-Vascular Plants ¹
10			Problematic Hydrophytic Vegetation¹ (Explain)
			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	110 * To	otal Cover	
1, 1			Hydrophytic
2.	1 4-4	. # 40 ·	Vegetation Present? Yes X No
% Bare Ground in Herb Stratum	<u>*</u> T r	otal Cover	NO
Remarks: CLL Company	Zelia -	<. d	A heart
Con Charling	0~		to TVAIT.
a de la composição de la c Esta composição de la comp			

	• •		i ileeded to docui				the absence of indicators.)	
Depth	<u>Matrix</u>			x Feature				
(inches)	Color (moist)		Color (moist)	. <u> </u>	Type ¹	Loc ²	Texture Remarks	A 2220.
0-4								<u>or</u>
4-19	10483/2	70 -	10124/6			M	silt loan faint (ekas
					1.30 T	- :		ewn gra j
		<u> </u>		-		1 1 V		Tarin N
			S	***************************************				
					10000		Note the second	
								ASS PAGE
	oncentration, D=Dep		···			d Sand Gr		
1 ~	Indicators: (Applic	able to all L			ed.)		Indicators for Problematic Hydri	c Soils':
Histosol	• •		Sandy Redox (-			2 cm Muck (A10)	Mail San
Histic Ep	oipedon (A2)		Stripped Matrix Loamy Mucky N		1) /oveent	MI DA 4)	Red Parent Material (TF2) Very Shallow Dark Surface (TI	=12\
	n Sulfide (A4)		Loamy Gleyed			MLINA I)	Other (Explain in Remarks)	12)
	Below Dark Surfac	e (A11)	Depleted Matrix		• •		one (explain in version)	
,	ark Surface (A12)	` '	Redox Dark Su				³ Indicators of hydrophytic vegetation	n and
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface (F	7)	*	wetland hydrology must be pres	ent,
	leyed Matrix (S4)		Redox Depress	ions (F8)	·		unless disturbed or problematic	•
Restrictive L	_ayer (if present):							
Type:								\ \ \
Depth (inc							Hydric Soil Present? Yes	No X
Remarks: 3	retar	1611	, thick	., 4	/ (C 14.	uff.	of PHAR	
	10 100	Paris	, 4,000	<i>~</i> 1	10	<i>v</i>)) (4 100	
fairt	relax							
						3.		
HYDROLO	GY	·····	·····					
	-							
1	drology Indicators:		chack all that anni				Secondary Indicators /2 or more	required)
Primary Indic	drology Indicators: cators (minimum of c				(50)		Secondary Indicators (2 or more	
Primary Indic	drology Indicators: cators (minimum of c Water (A1)		Water-Sta	ined Leav		xcept	Water-Stained Leaves (B9)	
Primary Indic	drology Indicators: cators (minimum of c Water (A1) ater Table (A2)		Water-Sta	ined Leav 1, 2, 4A, a		xcept	Water-Stained Leaves (B9) 4A, and 4B)	
Primary Indic Surface High Wa Saturatio	drology Indicators: cators (minimum of c Water (A1) Iter Table (A2) on (A3)		Water-Sta MLRA Salt Crust	ined Leav 1, 2, 4A, a (B11)	and 4B)	xcept	Water-Stained Leaves (B9)4A, and 4B)Drainage Patterns (B10)	(MLRA 1, 2,
Primary Indic Surface High Wa Saturatio Water M	drology Indicators: cators (minimum of c Water (A1) Iter Table (A2) on (A3) arks (B1)		Water-Sta MLRA Salt Crust Aquatic In	ined Leav 1, 2, 4A, a (B11) vertebrate	and 4B) s (B13)	xcept	Water-Stained Leaves (B9) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C	(MLRA 1, 2, 2)
Primary Indic Surface High Wa Saturatio Water M Sedimer	drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2)		Water-Sta MLRA Salt Crust Aquatic In Hydrogen	ined Leav 1, 2, 4A, a (B11) vertebrate Sulfide Od	and 4B) es (B13) dor (C1)		 Water-Stained Leaves (B9) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C Saturation Visible on Aerial 	(MLRA 1, 2, 2)
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Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep	drology Indicators: cators (minimum of c Water (A1) hter Table (A2) on (A3) arks (B1) ht Deposits (B2) oosits (B3) at or Crust (B4)		Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F	ined Leav. 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce	es (B13) dor (C1) res along ed Iron (C4	Living Roo	Water-Stained Leaves (B9) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C) Saturation Visible on Aerial (C3) Geomorphic Position (D2) Shallow Aquitard (D3)	(MLRA 1, 2, 2)
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WETLAND DETERMINATION D				intains, Valleys, an ImoNic	ia surabady i Dy. Tevri	
Project/Site: Scimunaini Sh to Jugit Applicant/Owner PSF	1	City/County			_ Sampling Date: _	一点、10、10、10、10、10、10、10、10、10、10、10、10、10、
				State: <u>\(\lambda . \frac{1}{2} \)</u>	_ Sampling Point: _	SP- D4
		Section, To	2.20.20.000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1
A		Local relie	f (concave,	convex, none):Con		pe (%): <u>/</u>
Subregion (LRR):	Lat:			_ Long:	Datu	
Soil Map Unit Name: Aldwood gri	Sudy	1 1 1		NWI classifi		
Are climatic / hydrologic conditions on the site typical for the		1.77	77	(If no, explain in i	•	r
Are Vegetation, Soil, or Hydrology				"Normal Circumstances"		No
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?	(11 11)	eeded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map	showing	samplin	g point l	ocations, transect	s, important fe	atures, etc.
Hydric Soil Present? Yes _\tox_	No No No	1 1.0	ne Sampleo nin a Wetla	l Area nd? Yesx	(No	
Remarks: Photos 2364-2369 In	weth	and	R-1) Constant		
VEGETATION – Use scientific names of pla	nts.		erestesa eresistö (es			·
	Absolute	Dominant		Dominance Test work	ksheet:	
Tree Stratum (Plot size: 15)	% Cover	Species?	Status	Number of Dominant S That Are OBL, FACW,		(A)
2			- 	Total Number of Domir Species Across All Stra		, (B)
4.	<u> </u>	= Total Co		Percent of Dominant S That Are OBL, FACW,	pecies /	
Sapling/Shrub Stratum (Plot size: 15	osimo e se social como de	ere taken in der turk i in d		Prevalence Index wor	a talin des	(A/B)
1				Total % Cover of:	Multiply	<u>/ by:</u>
3.				OBL species	x1=	
4.				FACW species		
5.	Miles Ale			FACIL appeles	x3≢ <u>% - </u>	
Hoth Stretum (Blot 1)	_0	= Total Co	ver	FACU species		
Herb Stratum (Plot size: 5) 1. Phalay 5 arond Nacce	100	VES	FACW			
2. Cirsium avuense		Topics C	FAC	精神(1) 1 1 1 1 1 1 1 1 1	(48) x 6 1.2	
3.	Mical Branco			Prevalence Index Hydrophytic Vegetation	***************************************	
4.	J erestaset e				Hydrophytic Vegeta	ition
5.	_		diciplination	X 2 - Dominance Tes	st is >50%	
				3 - Prevalence Ind		
7.					Adaptations¹ (Provides or on a separate :	
9.	-		recontract.	5 - Wetland Non-V	and the second of the second o	
10.		7	: Abe(twe	Problematic Hydro		
11. ARK THE GUY THE CONTROL OF THE BOOK THE		Total Cov		¹ Indicators of hydric sol be present, unless dist		
Woody Vine Stratum (Plot size: 15		- TOTAL COV	/ei			
1	-			Hydrophytic Vegetation	Y	
% Bare Ground in Herb Stratum	<u>D</u> .	≖ Total Cov	rer	Present? Ye	s _⊴ No	
Remarks:	***************************************					

Sampling Point: SP-01

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(inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	Type ¹	Loc ²	<u>Texture</u>	<u> </u>	Remarks	
2-0			1 4 5 1 2 1 4 4 5 1				Litter/	Right Mast	H-	
0-6	104R 3/1	100	•	9.5			S,L	bish	OM	and the Friday
6-17	1045 3/1	95	10UR 4/3	5	C.	m	SiL			
17=24	104R 3/2	90	10464/3	10.	C	m	FSIL	Lawers	of dio	terson
	1041-115		1098 113						th	16LR 5
<i></i>			· 1 - ·	.3				£-67		1=4 3
			· .					.x		
4.54					- 1					
<u> 4</u>				-		***************************************				
			=Reduced Matrix, C			ed Sand G		cation: PL=Po		
3		able to all	LRRs, unless othe		ea.)			ors for Proble	mauc nyun	c Solls :
Histosol	• •	ą.	Sandy Redox					n Muck (A10) I Parent Mater	ial /TE2\	
Histic Ep Black His	oipedon (A2)		Sinpped Watin		1) (avcan	+ 8/11 ED A - 1\		y Shallow Dari	. ,	=12\
	n Sulfide (A4)		Loamy Gleyed			LINLINA I)		er (Explain in I		12)
	l Below Dark Surfac	e (A11)	Depleted Matri		-/		0	ci (Expidiii iii	· ·	
	rk Surface (A12)	~ (, , , ,	Redox Dark S)		3Indicate	ors of hydrophy	tic vegetation	n and
********	lucky Mineral (S1)		Depleted Dark	. ,				ind hydrology		
_	leyed Matrix (S4)		Redox Depres		•		unle	ss disturbed or	problematic	
				·	-					(2 4 4 4 4 4 4 4
	ayer (if present):		Sec.							
Restrictive L		a s		VV.					.	
	NobiL	40000000-1200000-120000-120000-120000-120000-120000-120000-120000-120000-1200000-120000-120000-120000-120000-120000-120000-120000-120000-1200000-1200000-120000-120000-120000-120000-120000-120000-120000-120000-1200000-120000-120000-120000-120000-120000-120000-120000-120000-1200000-120000-120000-120000-120000-120000-120000-120000-120000-1200000-120000-120000-120000-120000-120000-120000-120000-120000-12000000-120000-120000-120000-120000-120000-120000-120000-120000-1200000-120000-120000-120000-120000-120000-120000-120000-120000-1200000-120000-120000-120000-120000-120000-120000-120000-120000-1200000-120000-120000-120000-120000-120000-120000-120000-120000-1200000-120000-120000-120000-120000-120000-120000-120000-120000-1200000-120000-120000-120000-120000-120000-120000-120000-120000-1200000-120000-120000-120000-120000-120000-120000-120000-120000-1200000-120000-120000-120000-120000-120000-120000-120000-120000-1200000-120000-120000-120000-120000-120000-120000-120000-120000-12000			u, q. quaque des quançans anno anti-	H-specification ,	Hydric Soil	Present?	res <u>X</u>	No
Restrictive L Type: Depth (inc Remarks:	Nopic ches):					g day year		Present?	res X	No
Restrictive L Type: Depth (inc Remarks:	Nopic ches):					g, Allageng		Present?	res <u>X</u>	No
Restrictive L Type: Depth (inc Remarks: YDROLOG	Mopic ches):					12 - Andrews	J.,		*	
Type:	Ches):GY drology Indicators (minimum of		d; check all that app			H. speriod	JSeco	ndary Indicato	s (2 or more	required)
Restrictive L Type: Depth (inc Remarks: YDROLOG Vetland HycSurface \	Ches):		Water-St	ained Leav		except	JSeco	ndary Indicator Vater-Stained	rs (2 or more	required)
Type: Depth (incomers) YDROLOG Wetland Hyco Surface \(\) High Wa	GY Irology Indicators ators (minimum of water (A1) ter Table (A2)		Water-Str MLRA	ained Leav 1, 2, 4A,		except	Seco	ndary Indicator Vater-Stained 4A, and 4B)	s (2 or more	required)
Type: Depth (incomercial Control	GY Irology Indicators eators (minimum of water (A1) ter Table (A2) on (A3)		Water-Str MLRA Salt Crus	ained Leav 1 , 2, 4A, ; t (B11)	and 4B)	except	Seco	ndary Indicator Vater-Stained 4A, and 4B) Oralnage Patter	rs (2 or more Leaves (B9)	required) (MLRA 1, 2,
Type:	ches): GY drology Indicators eators (minimum of other (A1) ter Table (A2) on (A3) arks (B1)		Water-St MLRA Salt Crus Aquatic I	ained Leav A 1, 2, 4A, i t (B11) nvertebrate	and 4B) es (B13)	except	Seco V [ndary Indicator Vater-Stained 4A, and 4B) Orainage Patter	s (2 or more Leaves (B9) rns (B10) ater Table (C	required) (MLRA 1, 2,
Type:	ches): drology Indicators eators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2)		Water-St MLRA Salt Crus Aquatic II Hydroger	ained Leav 1, 2, 4A, 1 t (B11) nvertebrate n Sulfide O	and 4B) es (B13) dor (C1)		Seco	ndary Indicator Vater-Stained 4A, and 4B) Orainage Patter Ory-Season Wasaturation Visit	s (2 or more Leaves (B9) rns (B10) ater Table (Cole on Aerial	required) (MLRA 1, 2,
Type:	ches): drology Indicators eators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3)		Water-Str MLRA Salt Crus Aquatic II Hydroger Oxidized	ained Leav 1, 2, 4A, and the (B11) and the contraction of the contrac	and 4B) es (B13) dor (C1) eres along	Living Roo	Seco	ndary Indicator Vater-Stained I 4A, and 4B) Orainage Patter Ory-Season Wasaturation Visit	s (2 or more Leaves (B9) rns (B10) ater Table (Colle on Aerial sition (D2)	required) (MLRA 1, 2,
Type:	ches): drology Indicators eators (minimum of the ter Table (A2) on (A3) arks (B1) arks (B1) on the ter Table (B2) on the term of the term		Water-Str MLRA Salt Crus Aquatic II Hydroger Oxidized Presence	ained Leav 1, 2, 4A, t (B11) nvertebrate n Sulfide O Rhizosphe e of Reduce	es (B13) dor (C1) eres along ed Iron (C	Living Roo 4)	Seco	ndary Indicator Vater-Stained I 4A, and 4B) Orainage Patter Ory-Season Was Saturation Visit Geomorphic Po	rs (2 or more Leaves (B9) rns (B10) ater Table (Cole on Aerial sition (D2) rd (D3)	required) (MLRA 1, 2,
Type:	ches): ches): drology Indicators cators (minimum of or		Water-Str MLRA Salt Crus Aquatic II Hydroger Oxidized Presence Recent Ir	ained Leav 1, 2, 4A, 1 t (B11) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct	es (B13) dor (C1) eres along ed Iron (C ion in Tille	Living Roo 4) d Soils (Ce	Seco	ndary Indicator Vater-Stained 4A, and 4B) Orainage Patter Ory-Season Was Saturation Visit Geomorphic Po Shallow Aquitar FAC-Neutral Te	rs (2 or more Leaves (B9) rns (B10) ater Table (O ble on Aerial sition (D2) rd (D3) est (D5)	required) (MLRA 1, 2, 2) Imagery (C9
Type:	ches): GY Irology Indicators Eators (minimum of other (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6)	one require	Water-Standard Water-	ained Leav 1, 2, 4A, 1 t (B11) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct or Stressed	and 4B) es (B13) dor (C1) eres along ed Iron (C ion in Tille if Plants (D	Living Roo 4) d Soils (Ce	Seco	ndary Indicator Vater-Stained 4A, and 4B) Oralnage Patter Ory-Season Was Saturation Visit Geomorphic Potential Season Aquitar FAC-Neutral Telesiased Ant More	rns (2 or more Leaves (B9) rns (B10) ater Table (Cole on Aerial sistion (D2) rd (D3) est (D5) unds (D6) (L	required) (MLRA 1, 2, 2) Imagery (C9
Type:	ches): drology Indicators eators (minimum of other (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial	one require	Water-Standard Water-Standard Water-Standard Clus Aquatic In Hydroger Oxidized Presence Recent In Stunted Co.	ained Leav 1, 2, 4A, 1 t (B11) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct	and 4B) es (B13) dor (C1) eres along ed Iron (C ion in Tille if Plants (D	Living Roo 4) d Soils (Ce	Seco	ndary Indicator Vater-Stained 4A, and 4B) Orainage Patter Ory-Season Was Saturation Visit Geomorphic Po Shallow Aquitar FAC-Neutral Te	rns (2 or more Leaves (B9) rns (B10) ater Table (Cole on Aerial sistion (D2) rd (D3) est (D5) unds (D6) (L	required) (MLRA 1, 2, 2) Imagery (C9
Type:	ches): drology Indicators cators (minimum of other (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aerial	one require	Water-Standard Water-Standard Water-Standard Clus Aquatic In Hydroger Oxidized Presence Recent In Stunted Co.	ained Leav 1, 2, 4A, 1 t (B11) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct or Stressed	and 4B) es (B13) dor (C1) eres along ed Iron (C ion in Tille if Plants (D	Living Roo 4) d Soils (Ce	Seco	ndary Indicator Vater-Stained 4A, and 4B) Oralnage Patter Ory-Season Was Saturation Visit Geomorphic Potential Season Aquitar FAC-Neutral Telesiased Ant More	rns (2 or more Leaves (B9) rns (B10) ater Table (Cole on Aerial sistion (D2) rd (D3) est (D5) unds (D6) (L	required) (MLRA 1, 2, 2) Imagery (C9
Type:	ches): drology Indicators eators (minimum of or	one require Imagery (B e Surface (Water-Sta MLRA Salt Crus Aquatic Is Hydroger Oxidized Presence Recent Ir Stunted of Other (E) (B8)	ained Leav 1, 2, 4A, 1 t (B11) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct or Stressed splain in Re	and 4B) es (B13) dor (C1) eres along ed Iron (C ion in Tille if Plants (D	Living Roo 4) ad Soils (Ce	Seco	ndary Indicator Vater-Stained 4A, and 4B) Oralnage Patter Ory-Season Was Saturation Visit Geomorphic Potential Season Aquitar FAC-Neutral Telesiased Ant More	rns (2 or more Leaves (B9) rns (B10) ater Table (Cole on Aerial sistion (D2) rd (D3) est (D5) unds (D6) (L	required) (MLRA 1, 2, 2) Imagery (C9
Type:	ches): ches): drology Indicators cators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aerial of Vegetated Concavivations: er Present?	Imagery (B e Surface (Water-Standard Water-Standard Water-Standard Carlo Water-Standard Carlo Water-Standard Water-Standard Carlo Water-Standard Water-Standard Water-Standard Carlo Water-Standard Car	ained Leav 1, 2, 4A, t (B11) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct or Stressed xplain in Re	and 4B) es (B13) dor (C1) eres along ed Iron (C ion in Tille if Plants (D	Living Roo 4) ad Soils (Ce	Seco	ndary Indicator Vater-Stained 4A, and 4B) Oralnage Patter Ory-Season Was Saturation Visit Geomorphic Potential Season Aquitar FAC-Neutral Telesiased Ant More	rns (2 or more Leaves (B9) rns (B10) ater Table (Cole on Aerial sistion (D2) rd (D3) est (D5) unds (D6) (L	required) (MLRA 1, 2, 2) Imagery (C9
Type:	ches): ches): drology Indicators cators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aerial ovegetated Concavivations: er Present?	Imagery (B e Surface (res	Water-Standard Water-Standard Water-Standard Country Salt Crus Aquatic la Hydroger Oxidized Presence Recent la Stunted country (7)	ained Leav 1, 2, 4A, t (B11) nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct or Stressed cplain in Re nches):	and 4B) es (B13) dor (C1) eres along ed Iron (C ion in Tille if Plants (D	Living Roo 4) ad Soils (C6 01) (LRR A	Seco	ndary Indicator Vater-Stained 4A, and 4B) Orainage Patter Ory-Season Was Saturation Visit Geomorphic Poshallow Aquitar AC-Neutral Te Raised Ant More Frost-Heave Hu	rs (2 or more Leaves (B9) rns (B10) ater Table (Cole on Aerial sition (D2) rd (D3) est (D5) unds (D6) (L	e required) (MLRA 1, 2, 2) Imagery (C9 RR A) 7)
Type:	ches): drology Indicators eators (minimum of water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aerial ovegetated Concaverations: er Present? Present?	Imagery (B e Surface (res	Water-Standard Water-Standard Water-Standard Carlo Water-Standard Carlo Water-Standard Water-Standard Carlo Water-Standard Water-Standard Water-Standard Carlo Water-Standard Car	ained Leav 1, 2, 4A, t (B11) nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct or Stressed cplain in Re nches):	and 4B) es (B13) dor (C1) eres along ed Iron (C ion in Tille if Plants (D	Living Roo 4) ad Soils (C6 01) (LRR A	Seco	ndary Indicator Vater-Stained 4A, and 4B) Oralnage Patter Ory-Season Was Saturation Visit Geomorphic Potential Season Aquitar FAC-Neutral Telesiased Ant More	rs (2 or more Leaves (B9) rns (B10) ater Table (Cole on Aerial sition (D2) rd (D3) est (D5) unds (D6) (L	e required) (MLRA 1, 2, 2) Imagery (C9 RR A) 7)

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

Project/Site SAMMAMISH _ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Citv/Cou	inty:REDM	OM	Sampling Date: 6 29	7.16
Applicant/Owner: _ PSE	1.122				Sampling Point	
Investigator(s): P. M. 6. M		Section	Township Ra	inge:		
Landform (hillslope, terrace, etc.) Re. ewho knut	1985	•	•		/ Slone (%):	10
Subregion (LRR):	Lat		n-M	_ Long:	Datum:	<i>J</i>
		U				1
Are climatic / hydrologic conditions on the site typical for this			•			1000
Are Vegetation, Soil, or Hydrology s				"Normal Circumstances" ¡	present? YesX N	0
Are Vegetation, Soil, or Hydrology n	aturally pro	oblematio	c? (If ne	eeded, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map	showing	samp	ling point l	ocations, transects	, important feature	s, etc.
	0	1.0	s the Sampled	I A		
Hydric Soil Present? Yes N			- 15 A T 168 FT 2	л Агеа nd? Yes	No X	
Wetland Hydrology Present? Yes N						
Remarks: Prot taken on slage of					- trail	
96-99 na Dra Upla	nd	Poir	nt for	wetland	R-D	
VEGETATION – Use scientific names of plan	ts.	: 5				
			ant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:)	% Cover	Specie	87 Status	Number of Dominant S		
2.				That Are OBL, FACW,	or FAC:	(A)
3.	·	To a frequent	ner est i sommer sær en epis i	Total Number of Domin		
3	· 			Species Across All Stra	ila:	(B)
	. ——	- Total	Cover	Percent of Dominant Sport Are OBL, FACW,		(A/B)
Sapling/Shrub Stratum (Plot size: 30)		_ \		Prevalence Index wor	011A0	(~\0)
1. Between sp	. 10	. <u> </u>	_FAZ_	Total % Cover of:		
2.					x1=	
			jaga ka	FACW species	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	2.8	1 H) 40	er in a second	FAC species	x3=	_
3.	10	= Total	Cover	FACU species	X4=	
Herb Stratum (Plot size:		10lai	Covei	In the second se	x5=	
1. Phospis acurdingue	70	. <u> </u>	FAZW.	Column Totals:	(A)	_ (B)
2 Facusth arvine	40	<u> </u>	_ FAC	Prevalence Index	= B/A =	
3 Coolin againe	20	<u> </u>	_ FAZM	Hydrophytic Vegetation		
4 Grain arvene	20_	<u> </u>	_ FAC_,		hydrophytic Vegetation	
5. 11(MA Sp	. 10	<u> </u>	_ FACN	2 - Dominance Tes	t is >50%	
6.		******		3 - Prevalence Inde		
7				4 - Morphological A	Adaptations¹ (Provide supposor on a separate sheet)	porting
	*	***************************************		5 - Wetland Non-Va	· · · · · · · · · · · · · · · · · · ·	
9				1 7.77 SW 6551	ohytic Vegetation¹ (Explai	n)
11.	-				l and wetland hydrology n	
	11.0	= Total C	Cover	be present, unless distu		
Woody Vine Stratum (Plot size:)	120 (1980)		over a	a seri tyletige sesine etistet	y navisniški bes kari	
1.				Hydrophytic		
2	· · · · · · · · · · · · · · · · · · ·			Vegetation	X.	Taring)
		= Total C	Cover	Present? Yes	в Nо	
% Bare Ground in Herb Stratum Remarks:				<u> </u>		
nomane.						
						. 6. 6
						i

	the depth ne	eded to document the indicator o	r confirm the	absence of indicators.)
Depth Matrix		Redox Features	Loc ²	
nches) Color (moist) -3	<u>%</u> _ ∪	olor (moist) % Type ¹	LOC	Texture Remarks Fill(solv: 100ts
-18 101R3/2	/-0-		51	4 loan no reday 30?

		-		
		uced Matrix, CS=Covered or Coated	Sand Grains	
ydric Soll Indicators: (Applicat	ole to all LRRs	s, 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 I	WLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4) Depleted Below Dark Surface		Loamy Gleyed Matrix (F2) Depleted Matrix (F3)		Other (Explain in Remarks)
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)	F	Redox Depressions (F8)		unless disturbed or problematic.
lestrictive Layer (if present):				
Type:				~
Depth (inches):			н	ydric Soil Present? Yes No _^_
Remarks: No Hydric Indic				
YDROLOGY Vetland Hydrology Indicators:	Ans			
YDROLOGY Vetland Hydrology Indicators:	Ans			Secondary Indicators (2 or more required)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1)	Ans	Water-Stained Leaves (B9) (ex		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
POROLOGY Vetland Hydrology Indicators: Inimary Indicators (minimum of one Surface Water (A1) High Water Table (A2)	Ans	Water-Stained Leaves (B9) (exc MLRA 1, 2, 4A, and 4B)		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
POROLOGY Vetland Hydrology Indicators: Inimary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)	Ans	Water-Stained Leaves (B9) (exc 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)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Ans	Water-Stained Leaves (B9) (exc MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Ans	Water-Stained Leaves (B9) (exc MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	cept	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 Vetland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Ans	Water-Stained Leaves (B9) (exc MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li	cept	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 (CSC3) Geomorphic Position (D2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Ans	Water-Stained Leaves (B9) (exc MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4)	cept iving Roots (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 (CS) Geomorphic Position (D2) Shallow Aquitard (D3)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of 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)	Ans	Water-Stained Leaves (B9) (exc MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	cept iving Roots (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)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of 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)	e required; che	Water-Stained Leaves (B9) (exc MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1)	cept iving Roots (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) Raised Ant Mounds (D6) (LRR A)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of 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 Im	e required; che	Water-Stained Leaves (B9) (exc MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	cept iving Roots (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)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of 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 Im Sparsely Vegetated Concave S	e required; che	Water-Stained Leaves (B9) (exc MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1)	cept iving Roots (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) Raised Ant Mounds (D6) (LRR A)
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Primary Indicators (minimum of 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 Im Sparsely Vegetated Concave Selected Water Present? Vestor Table Present?	agery (B7) Surface (B8) Summer No 2 Summer	Water-Stained Leaves (B9) (exc. MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Light Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	cept iving Roots (C Soils (C6)) (LRR A) Wetland rections), if av	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) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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PROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of 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 Im Sparsely Vegetated Concave Sield Observations: Surface Water Present? Vestaturation Present?	agery (B7) Surface (B8) Summer No 2 Summer	Water-Stained Leaves (B9) (exc. MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks) Depth (inches): Depth (inches):	cept iving Roots (C Soils (C6)) (LRR A) Wetland rections), if av	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 (CS) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

WETLAND DETERMINATION D	ATA FORM -	Western Mo	untains, Valleys, and	1 Coast Region
Project/Site: Sammamish to Juania	City/0	County: R&	dmoved	Sampling Date: 6-29
Applicant/Owner: PSE		and the second second second second second second	The first state of the first sta	Sampling Point:
Investigator(s): Hamidi	Secti		ange:	77
andform (hillslope, terrace, etc.): ditch	Loc			(عبد Slope (%): ا
Subregion (LRR): A	Lat:		Long:	
Soil Map Unit Name: Indiquola Logn				
Are climatic / hydrologic conditions on the site typical for th				
Are Vegetation, Soil, or Hydrology				oresent? Yes 😥 No
Are Vegetation, Soil, or Hydrology	naturally problem	atic? (If r	eeded, explain any answe	rs in Remarks.)
BUMMARY OF FINDINGS – Attach site map	showing san	npling point	locations, transects	, important features, e
Hydric Soil Present?	No No	is the Sample	d Area ind? Yes <u></u> ✓	No .
	Vo			
Photos 2370 to 2375	In we	tland	R-C	
/EGETATION – Use scientific names of plar	nts.			
	<u> Paragraphia di Para</u>	ninant Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size: 13)	% Cover Spe	cies? Status	Number of Dominant Sp That Are OBL, FACW, of	
2.			Total Number of Domin	engan ingerengan senara senara
3.			Species Across All Stra	
4. <u>1811 - 1818 </u>		otal Cover	Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size: 15')			That Are OBL, FACW, o	and the second s
1.		لاول	Total % Cover of:	Multiply by:
2.				χ1 =
3		258700		x2≠
4.			FAC species	x3≖
5.			FACU species	
Herb Stratum (Plot size: 5)	<u> </u>	tal Cover	UPL species	x5=
1. Phalaris arundingera	70 'Y	113 FACL	Column Totals:	(A) (B
2. Solanum dulcamara	_50 Y	25 FAC	Prevalence Index	≖ B/A ≠
s. urtica diol ca	<u>. 3 '</u>	<u>FAC</u>	Hydrophytic Vegetatio	
4 Equisitum telmistes	10	<u> </u>	호 를 수 있으면 보면 하는 기가 있다면 보다는 보다는 그런 그래요?	lydrophytic Vegetation
5.			<u></u>	is >50%
6			3 - Prevalence Inde	x is ≤3.0¹
7		<u> </u>	4 - Morphological A	daptations¹ (Provide supportir
				or on a separate sheet)
9.	y conservation of the second	<u> Chelinas en la</u>	5 - Wetland Non-Va	
10				hytic Vegetation¹ (Explain)
11. <u>dan da kanada Kabupatan da kanada dapat dapat</u>	100	al Cover	be present, unless distu	and wetland hydrology must rbed or problematic.
Noody Vine Stratum (Plot size: 15'	-1-72 = 101	ai Cuvel		
i <u></u>	·	· · ·	Hydrophytic	
2			Vegetation	Andrew Comment of the
P. Bass Crawad in Hash Observes	= Tot	al Cover	Present? Yes	- No
% Bare Ground in Herb Stratum				
Telliars.				
The second of th			artie oorgan omgematet oorsteersketerister († 1860 – 1865)	and the second of the second o

Sampling Point: SPF1

Depth <u>Matrix</u>	Redox Features	<u> </u>	
inches) Color (moist)	% Color (moist) % Type 1 _ I	Loc ² Texture	Remarks
0-2 104R 3/1 1	<u> </u>	<u></u>	
2-8 /a/R 3/214/2:	50/50	- Sil+15	Souly Sed ; went 1
8-18 104R 2/1 1	00	- MUCK	w/notiv
ype: C=Concentration, D=Depletion	n, RM=Reduced Matrix, CS=Covered or Coated S		ation: PL=Pore Lining, M=Matrix.
ydric Soil Indicators: (Applicable	to all LRRs, unless otherwise noted.)	Indicato	rs for Problematic Hydric Soils³:
_ Histosol (A1)	Sandy Redox (S5)	₹ 2 cm	Muck (A10)
Kistic Epipedon (A2)	Stripped Matrix (S6)	Red	Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MI	LRA 1) Very	Shallow Dark Surface (TF12)
L Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Othe	r (Explain in Remarks)
_ Depleted Below Dark Surface (A		· · · · · · · · · · · · · · · · · · ·	
Thick Dark Surface (A12)	Redox Dark Surface (F6)		rs of hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		nd hydrology must be present,
_ Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unles	s disturbed or problematic.
estrictive Layer (if present):			
Type: No.Va			
Depth (inches):	***************************************	Hydric Soil	Present? Yes 🔼 No
		\$ 1	
'DROLOGY			
/DROLOGY /etland Hydrology Indicators:			
/DROLOGY /etland Hydrology Indicators:	Commence of the Commence of th		dary Indicators (2 or more required)
/DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one re	Water-Stained Leaves (B9) (exce		ater-Stained Leaves (B9) (MLRA 1, 2,
/DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one re	Commence of the Commence of th	ept W	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
/DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one re	Water-Stained Leaves (B9) (exce	ept W	ater-Stained Leaves (B9) (MLRA 1, 2,
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/DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (exce MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	W Di Di	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
/DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (exce MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	W Di Si	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
/DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (exce MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	ept W Di Si ing Roots (C3) ≠ G	Ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9
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/DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one re 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) (excess MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi	— W — Di — Di — Si ing Roots (C3)	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9 reomorphic Position (D2) rallow Aquitard (D3)
/DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one re 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) (excess MLRA 1, 2, 4A, and 4B) 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) (ept W Di Di Si ing Roots (C3)	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9 reomorphic Position (D2) rallow Aquitard (D3) AC-Neutral Test (D5)
/DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one research 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 Imag	Water-Stained Leaves (B9) (excess MLRA 1, 2, 4A, and 4B) 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) (ery (B7) Other (Explain in Remarks)	ept W Di Di Si ing Roots (C3)	Atter-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)
/DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one results) 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 Imag Sparsely Vegetated Concave Sur	Water-Stained Leaves (B9) (excess MLRA 1, 2, 4A, and 4B) 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) (ery (B7) Other (Explain in Remarks)	ept W Di Di Si ing Roots (C3)	Atter-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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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region SAMMAMISH - JUAN MA City/County: REDMOND Sampling Date: 6.29 State: WK Sampling Point: St Applicant/Owner: P5E Investigator(s): P. H. Section, Township, Range: _ Landform (hillslope, terrace, etc.): 5000 __ Local relief (concave, convex, none): __^_ Subregion (LRR): Long: INdiquola Logny Sand, 0-5% Slope NWI classification: Delaws 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 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: upland plot on slope -Point for wetland 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: **OBL** species FACW species _ FAC species **FACU** species = Total Cover UPL species Herb Stratum (Plot size: Column Totals: Prevalence Index = B/A = 20 Hydrophytic Vegetation Indicators: __ 1 - Rapid Test for Hydrophytic Vegetation 10 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) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover Hydrophytic Vegetation X No ___ Present? Total Cover % Bare Ground in Herb Stratum Remarks:

US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Version 2.0

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			intains, Valleys, and Coast Region
Project/Site: PSE Rodmond along	Willbus tole	City/County: Reply	Mond Sampling Date: 6/5/201
Applicant/Owner: PS6			State: WA Sampling Point: SP-Uplan
Investigator(s): 50 Brooks, Poul	Hammade s	Section, Township, Ra	inge:
			convex, none): Slope (%):
Soil Map Unit Name: INA Indiana	0/9 100	any sand,	Long: Datum:
Are climatic / hydrologic conditions on the site typical fo			,
			"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			
SUMMARY OF FINDINGS - Attach site m	an showing	sampling point l	ocations, transects, important features, etc
Hydrophytic Vegetation Present? Yes			oodions, transcots, important reatures, etc
Hydric Soil Present? Yes		Is the Sampled	I Area
Wetland Hydrology Present? Yes		within a Wetlar	nd? Yes No
Remarks: Perip is below no	rmal	and the same of the last	The state of the s
1621 13 12300			
VEGETATION – Use scientific names of p	lanta		
LOCIATION - Use scientific findines of p	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species? Status	Number of Dominant Species
1,			That Are OBL, FACW, or FAC: (A)
2.			Total Number of Dominant
3			Species Across All Strata:(B)
4.		= Total Cover	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)			That Are OBL, FACW, or FAC: (A/B)
1. Prous Househons	10	Y FAC	Prevalence Index worksheet:
2			
3			FACW species x 2 =
4			FAC species x 3 =
5	1.0	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)		, ,	UPL species x 5 =
1. RCG Halans anstonacca	100	Y FACW	Column Totals: (A) (B)
2 Carston to matein		Y FAON	Prevalence Index = B/A =
3.			Hydrophytic Vegetation Indicators:
4		7	1 - Rapid Test for Hydrophytic Vegetation
5.	WORLD HOUSE	ATT SWITTER BOTT	✓ 2 - Dominance Test is >50%
6		UE OT-E +- 1 THE	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 Plants ¹
10.			Problematic Hydrophytic Vegetation ¹ (Explain)
11.			Indicators of hydric soil and wetland hydrology must
50% 75 29K—	150=	Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:) 1			The state of the s
2.			Hydrophytic Vegetation
		: Total Cover	Present? Yes No
% Bare Ground in Herb Stratum			
Remarks:			
Photo # = 239 - 241			