

Sewall Wetland Consulting, Inc.

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

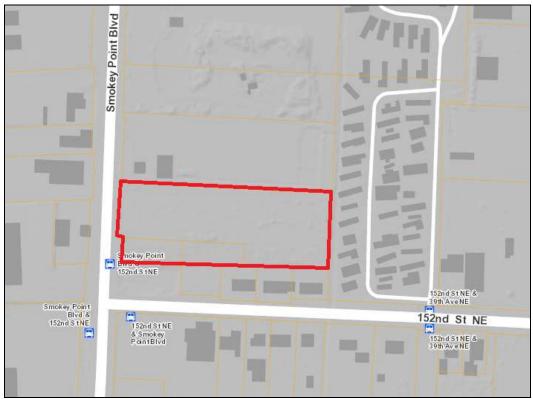
January 10, 2022

Allen Almassi Quality Auto Center 20420 WA-99 Lynwood, Washington 98036

RE: Critical Area Report – Parcels #31053300205300 & 200 City of Marysville, Washington SWC Job #21-180

Dear Alen,

This report describes our observations of any jurisdictional wetlands, streams and buffers on consisting of Parcels #31053300205300 & 200, located at 15223 Smokey Point Boulevard, in the City of Marysville, Washington.



Above: Vicinity Map of the site.

The site is an irregular shaped group of two parcels 2.73 acres in size and located within NW $\frac{1}{4}$ of Section 33, Township 31 North, Range 5 East of the W.M.

The site consists of an undeveloped, cleared property along the east side of Smokey Point Boulevard. A home was located on the site as recently as 2012, but does not appear in the 2015 aerial photographs of the site so it was removed between 2012 and 2015.



Above: 2012 Aerial photograph of the site with a structure on the western side of the site.



Above: 2020 aerial photograph of the site, note structure removed.

The site now contains scattered trees and thickets of shrubs with open, mowed grass areas. A mobile home park abuts the east side of the site, a commercial business is located just north of the site, and a small stormwater facility and three single family homes abut the south side of the site.

METHODOLOGY

Ed Sewall of Sewall Wetland Consulting, Inc. inspected the site on December 3, 2021.

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

Given the mapped Custer soil series on the site, the presence of hydrology was deemed the only way to determine if wetlands exists on this site in areas with some hydrophytic species.

Previous information from NRCS indicates that there is such a high degree of disturbance to historical hydrology of the Custer soils in the vicinity of the site that the only sure determination if the soil was hydric was to observe wetland hydrology in the early growing season or winter when it would be expected present.

The presence of wetland hydrology is the driving force behind wetland presence, without wetland hydrology, an area does not meet wetland criteria. Therefore, only areas on the site that contain all three parameters during the early growing season meet the definition of a wetland. Areas that do not have hydrology do not meet wetland criteria and are considered upland.

OBSERVATIONS

Existing Site Documentation.

Prior to visiting the site, a review of several natural resource inventory maps was conducted. Resources reviewed included the City of Marysville mapping website, National Wetland Inventory Map and the NRCS Soil Survey online mapping and Data as well as the WADNR Fpars stream mapping website and the WDFW Priority Habitats and Species maps.

City of Marysville Maps

The City of Marysville has both a Critical Areas and Stream Classification website that would pertain to the site. Both maps depict the ditch along the eastern side of the site as "Not Regulated"



Above: City of Marysville Critical areas mapping.



Above: City of Marysville Stream Classification mapping.

National Wetlands Inventory (NWI)

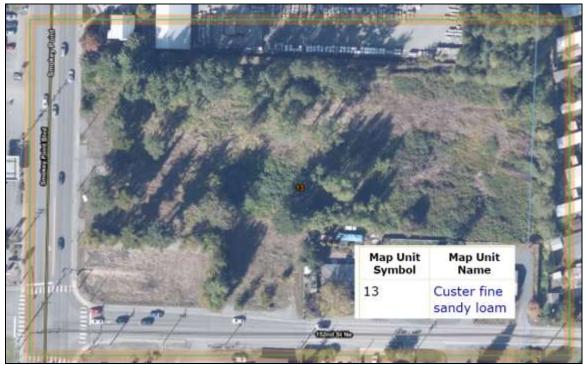
The NWI map depicts no wetlands on the site. A linear water body (ditch) is located east of the site as shown on the other inventories.



Above: NWI map of the area of the site

Soil Survey

According to the NRCS Soil Mapper website, the site is mapped entirely as Custer Fine Sandy Loam. This soil series considered a "hydric" soils according to the publication *Hydric Soils of the United States* (USDA NTCHS Pub No.1491, 1991).



Above: NRCS soil map of the site.

WADNR Fpars Stream Mapping

The Washington Department of Natural Resources Fpars stream type mapping website depicts the ditch along the eastern side of the site as "unclassified".

WDFW Priority Habitats

According to the WDFW Priority Habitats mapping website, a ditch is located along the eastern side of the site.



Above: WDNR Fpars stream mapping for the area of the site.



Above: WDFW Priority Habitats mapping of site.

Field observations

As previously described, the site consists of a former homesite with open cleared areas and scattered trees along the perimeter and center of the site. Several large mounded soil areas were noted as well as an old power pole which was associated with the former home site.

Trees noted on the site include Douglas fir, aspen, cottonwood and birch. Patches of hardhack and scotch broom area also found on the site.

Given the Custer soil series on the site, a series of soil pits were excavated in areas on the east where some hydrophytic vegetation was noted (mowed hardhack) following a period of record amounts of rainfall through the previous two months. Based upon the record amount of rainfall, the sites soils should display some evidence of wetland hydrology if it's ever present.

Soil pits excavated throughout the site displayed sandy loam soils with matrix chromas of 3-4 in the B-horizon. Some mottling was noted within some soil pits, however all pits were dry or moist with no evidence of wetland hydrology.

Conclusion

Although some hydric soils similar to the Custer soil series were noted on the site, no evidence of wetland hydrology was noted despite being observed during record rainfall amounts for the previous two months. It is our conclusion that there are no areas that meet wetland criteria on the site.

The ditch on the eastern side of the site is considered "not regulated" by the city so there is no setback from that drainage feature.

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

Sincerely, Sewall Wetland Consulting, Inc.

Sent

Ed Sewall Senior Wetlands Ecologist PWS #212

Attached: Data sheets

REFERENCES

City of Marysville Municipal Code and Maps

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

Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1. U. S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, Mississippi.

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

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

National Technical Committee for Hydric Soils. 1991. Hydric Soils of the United States. USDA Misc. Publ. No. 1491.

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

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

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

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

Project/Site: Quality	Ach	City/County: C: 4 oF M	19 sville s	ampling Date: 12-3-21
Applicant/Owner:		St	ate: <u>WA</u> s	ampling Point: DP#/
Investigator(s):	Seval	Section, Township, Range:	533	T31 25E
Landform (hillslope, terrace, etc.):		Local relief (concave, convex, n	one):	Slope (%):
Subregion (LRR):	Lat:	Long:		Datum:
Soil Map Unit Name:			NWI classificati	ion:
Are climatic / hydrologic conditions of	n the site typical for this time of y	ear? Yes No (If	no, explain in Ren	narks.)
Are Vegetation, Soil,	or Hydrology significantly	disturbed? Are "Normal C	ircumstances" pre	sent? Yes No
Are Vegetation, Soil,	or Hydrology naturally pr	oblematic? (If needed, exp	plain any answers	in Remarks.)
SUMMARY OF FINDINGS -	Attach site map showing	sampling point location	is, transects, i	mportant features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: Above	Normal rainFall	last 60 days

VEGETATION - Use scientific names of plants.

	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	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				Personal of Deminant Species
		= Total Co	ver	Percent of Dominant Species 570 That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	<u> </u>		C	
1. Spiring doug kusit	50	******	Fran	Prevalence Index worksheet:
2. Cytisus scopum	<u>?</u> e		UpL	Total % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species x2 =
5				FAC species x 3 =
		= Total Co	ver	FACU species x 4 =
Herb Stratum (Plot size:)		•		UPL species 20 x 5 = 100
1				Column Totals: 70 (A) 200 (B)
2				1 · · · · · · · · · · · · · · · · · · ·
3				Prevalence Index = B/A =2.85
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7.				Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
9.				Wetland Non-Vascular Plants1
10				Problematic Hydrophytic Vegetation' (Explain)
			******	¹ Indicators of hydric soil and wetland hydrology must
11		= Total Cov		be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)			/6!	
1				Hydrophytic
2		den hier and an an and a second s	******	Vegetation
	nh	= Total Cov		Present? Yes No
% Bare Ground in Herb Stratum				
Remarks:				±

US Army Corps of Engineers

SOIL

Sampling Point: __________/

Profile Desc	ription: (Describe to	the depth n	eeded to docur	nent the in	dicator	or confirm	the absence	e of indicators.)
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(inches)	Color (moist)	%	Color (moist)		Type ¹	_Loc ²	Texture	Remarks
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	and design of the state of the							
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				. <u></u>				
-				• •	decidential instant (decide	sina andara di seconda	***	
¹ Type: C=Ce	oncentration, D=Deple	tion, RM=Re	duced Matrix, CS	S=Covered	or Coate	d Sand Gra	ains. ² Lo	cation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	ble to all LRI	Rs, unless othe	wise note	d.)		Indicat	ors for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Redox (S5)			2 c	m Muck (A10)
	bipedon (A2)		Stripped Matrix	• •				d Parent Material (TF2)
	stic (A3)		Loamy Mucky M	· · ·	••••	MLRA 1)	Ot	ner (Explain in Remarks)
	en Sulfide (A4) d Below Dark Surface	(A11)	Loamy Gleyed Depleted Matrix	• •				
	ark Surface (A12)		Redox Dark Su				³ Indicat	ors of hydrophytic vegetation and
	Aucky Mineral (S1)		Depleted Dark	• •	7)			and hydrology must be present,
	Bleyed Matrix (S4)		Redox Depress		•			ss disturbed or problematic.
Restrictive	Layer (if present):		*************		,			₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩
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	ter Table (A2)			A, and 4B)		•		4A, and 4B)
Saturati			Salt Crust	•				Drainage Patterns (B10)
Water M	larks (81)		Aquatic In	vertebrates	s (B13)			Dry-Season Water Table (C2)
	nt Deposits (B2)		Hydrogen	Sulfide Od	or (C1)			Saturation Visible on Aerial Imagery (C9)
Drift Dej	posits (B3)		Oxidized I	Rhizospher	es along	Living Root	ts (C3)	Geomorphic Position (D2)
Algal Ma	at or Crust (B4)			of Reduced		•		Shallow Aquitard (D3)
	posits (B5)					d Soils (C6)		FAC-Neutral Test (D5)
	Soil Cracks (B6)					1) (LRR A)		Raised Ant Mounds (D6) (LRR A)
	on Visible on Aerial In			plain in Rer	narks)			Frost-Heave Hummocks (D7)
	y Vegetated Concave	SULLACE (R8)						
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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Quality	ALL	City/County: C:H oF Mar	Jsville Sampling Da	ite: 12-3-2
Applicant/Owner:		State:	WA Sampling Po	int:
Investigator(s):	Sewall	Section, Township, Range:	533 731	1 <u>25E</u>
Landform (hillslope, terrace, etc.):		Local relief (concave, convex, none)):	Slope (%):
Subregion (LRR):	Lat:	Long:		Datum:
Soil Map Unit Name:			Wi classification:	***
Are climatic / hydrologic conditions o	n the site typical for this time of y	ear? Yes No (If no,	explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly	/ disturbed? Are "Normal Circu	imstances" present? Yes	
Are Vegetation, Soil,	or Hydrology naturally pr	oblematic? (If needed, explain	n any answers in Remarks	s.)
SUMMARY OF FINDINGS -	Attach site map showing	g sampling point locations, I	transects, importan	t features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	is the Sampled Area No
Remarks: Above	Normal rainfall	Inst 60 days

VEGETATION – Use scientific names of plants.

		Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	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)
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5.	₩,##++g==19,**###################################				FAC species x 3 =
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Herb Stratum (Plot size:)				UPL species x 5 =
1.					Column Totals: (A) (B)
2.					
3.					Prevalence Index = B/A =
4.					Hydrophytic Vegetation Indicators:
5	******	•			Dominance Test is >50%
6	*****				Prevalence Index is ≤3.0 ¹
7.					Morphological Adaptations ¹ (Provide supporting
8					data in Remarks or on a separate sheet)
9.					Wetland Non-Vascular Plants ¹
10.				**************************************	Problematic Hydrophytic Vegetation ¹ (Explain)
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			LRRs, unless otherwise noted.)	11	ndicators for Problematic Hydric Solis ³ :
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	pipedon (A2)		Stripped Matrix (S6) Loamy Mucky Mineral (F1) (except N		Red Parent Material (TF2) Other (Explain in Remarks)
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	d Below Dark Surfa	ICE (A11)	Depleted Matrix (F3)		
	ark Surface (A12)		Redox Dark Surface (F6)	3	Indicators of hydrophytic vegetation and
	Aucky Mineral (S1)		Depleted Dark Surface (F7)		wetiand hydrology must be present,
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rimary Indi	cators (minimum of	one require	d; check all that apply)		Secondary Indicators (2 or more required)
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High Wa	ater Table (A2)		1, 2, 4A, and 4B)		4A, and 4B)
Saturati	on (A3)		Salt Crust (B11)		Drainage Patterns (B10)
Water N	larks (B1)		Aquatic Invertebrates (813)		Dry-Season Water Table (C2)
	nt Deposits (B2)		Hydrogen Sulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)
	posits (B3)		Oxidized Rhizospheres along Li	vina Roots (C3)	
	at or Crust (B4)		Presence of Reduced Iron (C4)		Shallow Aquitard (D3)
	posits (B5)		Recent Iron Reduction in Tilled		FAC-Neutral Test (D5)
	Soil Cracks (B6)		Stunted or Stressed Plants (D1)	•	Raised Ant Mounds (D6) (LRR A)
	ion Visible on Aeria	i Imagery /B		(Frost-Heave Hummocks (D7)
	y Vegetated Conca				
ield Obser			~~; 		
		Vas	No Depth (inches);		
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ater Table			No Depth (inches):	-	
aturation P		Yes	No Depth (inches):	Wetland Hy	drology Present? Yes No
	pillary fringe) corded Data (strea	m gauge, m	onitoring well, aerial photos, previous inspe	ections), if availa	abie:
emarks:				al dan din di kana di kananga ang dala din 1,465 mangan ang di pang	***

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WETLAND DET	ERMINATION DATA FOR	RM – Western Mour	tains, Valleys, and	5000
Project/Site: Quality	Aur	City/County: C:H	of Maysville	Sampling Date: 12-3-2)
Applicant/Owner:			State: WA	Sampling Point:
Investigator(s): 20	Seval	Section, Township, Ran	ge: <u>53</u> 3	3 T31 25E
Landform (hillslope, terrace, etc.):		_ Local relief (concave, c	onvex, none):	Slope (%):
Subregion (LRR):	Lat:		Long:	Datum:
Soil Map Unit Name:		*****	NWI classific	ation:
Are climatic / hydrologic conditions o	n the site typical for this time of y	ear? Yes No	(If no, explain in R	emarks.)
Are Vegetation, Soil,	or Hydrology significantly	y disturbed? Are *	formal Circumstances* p	wesent? Yes No
Are Vegetation, Soil,	or Hydrology naturally p	roblematic? (If ner	eded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS -	Attach site map showing	g sampling point lo	cations, transects	, important features, etc.
	/	T		

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland? Yes No	
Remarks: Above	Normal rainfall	last 60 days	

VEGETATION -- Use scientific names of plants.

		Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	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				*******	Percent of Dominant Species
			= Total Co	ver	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)				
1. Cytisus scope	. 1-7	40		-ph	Prevalence Index worksheet:
2. Spine dage	~s~	40		GA 4	Total % Cover of: Multiply by:
				******	OBL species x 1 =
3					FACW species X2 = 80
4.					
5	****				FAC species x 3 =
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2					3.5
3					Prevalence Index = B/A =
4.		-			Hydrophytic Vegetation Indicators:
5					Dominance Test is >50%
6					Prevalence Index is ≤3.0 ¹
7	Ølyr (n. v. v. y. d. v. y (n. k) an de y a grant de tre y (s) haar de anter y			******	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8		• •••••••••	-	-	Wetland Non-Vascular Plants ¹
9				****	
10					Problematic Hydrophytic Vegetation' (Explain)
11.					Indicators of hydric soil and wetland hydrology must
			= Total Cov		be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				
1	644-8-9-64 <u>-6</u> -64-6-6-		-		Hydrophytic Vegetation
2					Present? Yes No
% Bare Ground in Herb Stratum			= Total Cov	er	
Remarks:	highgedraat op een stat op Gegenere stat op een stat o Gegenere stat op een stat o		N	****	1

US Army Corps of Engineers

SOIL

		DP#3
lina	Point	Dpg

SOIL				Sampling Point:
Profile Des	cription: (Desc	ribe to	the depth needed to document the indicator or confirm	the absence of indicators.)
Depth	Mat		Redox Features	
(inches)	Color (mois		% Color (moist) % Type ¹ Loc ²	Texture Remarks
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Control martine and the state of the state o			on, RM≖Reduced Matrix, CS≖Covered or Coated Sand Gra	
•		opiicap	e to all LRRs, unless otherwise noted.)	indicators for Problematic Hydric Solis ³ ;
Histoso			Sandy Redox (S5)	2 cm Muck (A10)
	pipedon (A2)		Stripped Matrix (S6)	Red Parent Material (TF2)
	listic (A3)		Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
	en Sulfide (A4) d Below Dark S	utara (Loamy Gleyed Matrix (F2) A11) Depleted Matrix (F3)	
	ark Surface (A1)	,	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
	Mucky Mineral (S		Depleted Dark Surface (F7)	wetland hydrology must be present,
	Gleyed Matrix (S	•	Redox Depressions (F8)	unless disturbed or problematic.
	Layer (if prese			
Type:				
Depth (in	chae)			Hydric Soil Present? Yes No
Remarks:	wios).		######################################	rigune son Fresence Tes No
HYDROLC	OGY	249 (149 (149 (149 (149 (149 (149 (149 (1		
Wetland Hy	drology Indica	tors:	***************************************	
Primary Indi	cators (minimun	of one	required; check all that apply)	Secondary Indicators (2 or more required)
Surface	Water (A1)		Water-Stained Leaves (89) (except MLR	
High Wa	ater Table (A2)		1, 2, 4A, and 4B)	4A, and 4B)
Saturati	ion (A3)		Salt Crust (B11)	Drainage Patterns (B10)
Water N	Aarks (81)		Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sedime	nt Deposits (B2)		Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Oxidized Rhizoapheres along Living Root	ts (C3) Geomorphic Position (D2)
Algal M	at or Crust (B4)		Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron De	posits (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)
	ion Visible on Ad			Frost-Heave Hummocks (D7)
Sparsel	y Vegetated Col	ncave S	urface (B8)	
Field Obser	vations:			
Surface Wat	ter Present?	Yes	No Depth (inches):	
Water Table	Present?	Yes	No Depth (inches):	
Saturation P	resent?	Yes	No Depth (inches): Wetla	and Hydrology Present? Yes No
	pillary fringe)			
Describe Re	icorded Uata (st	eam ga	uge, monitoring well, aerial photos, previous inspections), i	IT available:
Öner-saf-sa	ang da baha yang da mang mang mang mang mang mang mang man	····-		
Remarks:				

WETLAND DET	ERMINATION DATA FOR	M – Western Mou		North central part of site
Project/Site: Quality	Auto	City/County:C; }	y of Moysville State: WA	Sampling Date: $12 - 3 - 2$ Sampling Point: $DP#9$ 3 T3/ Z5E
Investigator(s):	Sewall	Section, Township, Ra	nge: 53	3 T31 R5E
Landform (hillslope, terrace, etc.):				
Subregion (LRR):	Lat:		Long:	Datum:
Soil Map Unit Name:			NWI classi	lication:
Are climatic / hydrologic conditions on	the site typical for this time of ye	aar? Yes No	(If no, explain in	Remarks.)
Are Vegetation, Soil,	r Hydrology significantly	disturbed? Are *	'Normal Circumstances'	present? Yes No
Are Vegetation, Soil,	r Hydrology naturally pr	oblematic? (If ne	eded, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS -	Attach site map showing	sampling point l	ocations, transect	is, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	is the Sampled Area within a Wetland? Yes No
Remarks: Above	Normal rainfall	Inst 60 days

VEGETATION -- Use scientific names of plants.

	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species? Status	Number of Dominant Species
1. Pupulus bulsmilen	30	FA(That Are OBL, FACW, or FAC:
2			Total Number of Dominant
			Species Across All Strata:
4			
		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:
Sapling/Shrub Stratum (Plot size:)		FAC	
1. Rubus discut	~ ? ')	17~	Prevalence index worksheet:
2		-	Total % Cover of: Multiply by:
3			OBL species x 1 =
4.			FACW species x 2 =
5			FAC species x 3 =
		= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)		FRW	UPL species x 5 =
1. Phalmis autom			Column Totals: (A) (B)
3.			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
			Dominance Test is >50%
6			Prevalence Index is \$3.01
			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8	/	-	Wetland Non-Vascular Plants1
9		·····	Problematic Hydrophytic Vegetation ¹ (Explain)
10		-	
11.			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		= Total Cover	
Woody Vine Stratum (Plot size:)			
1		-	Hydrophytic
2	nanden, delationskerstersterster		Vegetation // Present? Yes No
% Bare Ground in Herb Stratum		= Total Cover	
Remarks:	*****		1
IVEIHOIND.			

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SOIL

SOIL				Sampling Point: $D p #$
Profile Des	cription: (Describe	to the depth i	needed to document the indicator or c	onfirm the absence of indicators.)
Depth	Matrix		Redox Features	
(inches)	Color (moist)	%		pc ² Texture Remarks
11	104n3/3	-	uZalahiyuDehiJikidananya amadda.ana moint.Kalanar madii	Sala las
16	10113			
				·

·····				ninganing angen na daning balang angen panganang en pangana dan kana pangang pangang angeng kanang pangang pan
		letion RM=Re	duced Matrix, CS=Covered or Coated Si	and Grains. ² Location: PL=Pore Lining, M=Matrix.
سكمطا الماحينا باجار الشيارية ساوته والجار أواجع والجري			Rs, unless otherwise noted.)	Indicators for Problematic Hydric Solis ³ ;
•	• • • •			· · · · · ·
Histosol	pipedon (A2)		Sandy Redox (S5) Stripped Matrix (S6)	2 cm Muck (A10) Red Parent Material (TF2)
	istic (A3)		Loamy Mucky Mineral (F1) (except ML	RA 1) Other (Explain in Remarks)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	
	d Below Dark Surfa	æ (AT7)	Depleted Matrix (F3)	Ben attanden og brinden attan i skriver
	ark Surface (A12)		Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
	Aucky Mineral (S1)		Depleted Dark Surface (F7)	wetland hydrology must be present,
	Gleyed Matrix (S4)		Redox Depressions (F8)	unless disturbed or problematic.
Restrictive	Layer (if present):			
Type:			_	
Depth (in	ches):			Hydric Soil Present? Yes No
Remarks:			**** ****	
HYDROLO	IGY			

•	drology Indicators			• • • • • • • • • •
Primary Indi	cators (minimum of	one required; c	heck all that apply)	Secondary Indicators (2 or more required)
Surface	Water (A1)		Water-Stained Leaves (B9) (exce	pt MLRA Water-Stained Leaves (B9) (MLRA 1, 2,
High W	ater Table (A2)		1, 2, 4A, and 4B)	4A, and 4B)
Saturati	on (A3)		Salt Crust (B11)	Drainage Patterns (B10)
Water N	Aarks (B1)		Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
	nt Deposits (B2)		Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
	posits (B3)		Oxidized Rhizospheres along Livir	
			Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
	at or Crust (B4)			
	posits (B5)		Recent Iron Reduction in Tilled Sc	
	Soil Cracks (B6)	_	Stunted or Stressed Plants (D1) (I	
	ion Visible on Aerial		Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsel	y Vegetated Concav	e Surface (B8)	1	
Field Obser	rvations:	****		ar men en e
Surface Wat	ter Present?	/es No	Depth (inches):	
Water Table	Present?	esNo	Depth (inches):	
Saturation P		les No	Depth (inches):	Wetland Hydrology Present? Yes No
	pillary fringe)		management for the state of the second secon	TATALATA II MITARY I TATALICE I AD
		n gauge, monit	oring well, aerial photos, previous inspec	lions), if available:
Remarks:	۵٬۰۰۰٬۰۰۰٬۰۰۰٬۵۰۰٬۰۰۰٬۵۰٬۰۰۰٬۰۰۰٬۰۰۰٬۰		*****	

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

Project/Site:	Quelity	Auto	City/County: C: ty e	FMo	rsville	Sampling Date:	12-3-21
Applicant/Owner:	una paga lan giya in in mada di sh			State:	WA	Sampling Point:	
Investigator(s):	<u>20 3</u>	Sewall	Section, Township, Range:				Z5E
Landform (hillslope, terr	ace, etc.):	1994 - Mary Mary Mary Mary Mary Mary Mary Mary	Local relief (concave, com	ex, none)	; <u></u>	Sł	ope (%):
Subregion (LRR):		Lat:	Lo	ng:		Dat	um:
Soil Map Unit Name:					WI classific	cation:	
Are climatic / hydrologic	conditions or	the site typical for this time of y	ear? Yes No	(If no, o	explain in F	(emarks.)	
Are Vegetation	Soil, (or Hydrology significantly	y disturbed? Are "Non	mal Circui	nstances" j	present? Yes	No
Are Vegetation	Soil (or Hydrology naturally pr	roblematic? (If neede	d, explain	any answe	rrs in Remarks.)	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegel Hydric Soil Presen Wetland Hydrolog	t?	Yes Yes Yes	No No	is the Sampled Area within a Wetland?	Yes	No
Remarks:	Above	Normal	rawfall	last 60 da	45	

VEGETATION - Use scientific names of plants.

		Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1. Populus bad	su ma	20		FAC	That Are OBL, FACW, or FAC: (A)
2					Total Number of Dominant
3					Species Across All Strata:(B)
4		-			Percent of Dominant Species
On-Particket Ottaken (Distained	,		= Total Co	ver	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 1. Pubus dus e	/	40		FAC	Prevalence index worksheet:
1. 2003 0123 1					
2. Cytisus 500	par 2		ana ang maning ay ag	-fi-	Total % Cover of: Multiply by:
3					OBL species x1 =
4.					FACW species x 2 =
5					FAC species x 3 =
Hart Stratum (Olat size)	``		= Total Co	ver	FACU species x 4 =
Herb Stratum (Plot size:					UPL species x 5 =
1.	**************************************				Column Totals: (A) (B)
3					Prevalence Index = B/A =
4					Hydrophytic Vegetation Indicators:
5.					Dominance Test is >50%
6.					Prevalence Index is ≤3.0°
7.					Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8				*****	Wetland Non-Vascular Plants'
9			dina aliangkapatakan batakan,		Problematic Hydrophytic Vegetation ¹ (Explain)
10		-			¹ Indicators of hydric soil and wetland hydrology must
11					be present, unless disturbed or problematic.
			= Total Cov	/er	
Woody Vine Stratum (Plot size:)				
1.			-	- Harida - Josef - Jo	Hydrophytic Vegetation
2					Present? Yes No
% Bare Ground in Herb Stratum		****	= Total Cov	ner -	attention and an and a second second
Remarks:					1
L					***

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int.	\mathcal{D}	P#5

OIL					Sampling Point:
Profile Des	cription: (Describe	o the depth n	eeded to document the ind	icator or confirm	the absence of indicators.)
Depth	Matrix		Redox Features		
(inches)	Color (moist)		Color (moist) % 1	Type' Loc ²	
14	104314			•	Sally hy
					/
			anna a shalan an a	*****	*****

		distanti and a second			
No where the second standing larger				and and an an an and an address of the second se	anya kara kara kara ya - Ashida Makuka kara kara kara kara kara kara kara
rype: C≖C	oncentration, D=Depi	etion, RM=Re	duced Matrix, CS=Covered or	r Coated Sand Gra	ains. ² Location: PL=Pore Lining, M=Matrix.
ydric Soil	Indicators: (Application)	ible to all LR	Rs, unless otherwise noted.)	Indicators for Problematic Hydric Solis ³ :
Histoso	I (A1)		Sandy Redox (S5)		2 cm Muck (A10)
Histic E	pipedon (A2)		Stripped Matrix (S6)		Red Parent Material (TF2)
	istic (A3)		Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		
	d Below Dark Surface	(A11)	Depleted Matrix (F3)		Sauto and a constant of the second
	ark Surface (A12)		Redox Dark Surface (F6)		³ Indicators of hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark Surface (F7)		wetland hydrology must be present,
-	Gleyed Matrix (S4) Laver (if present):		Redox Depressions (F8)		unless disturbed or problematic.
	cayer (ir present):				
Type:			**		
emarks:	iches):		segin 1974 marchi Taran av an ainte i Indonesia a provinse i ar dan ar a an ar a barri danan an ar dan internet	Menn Makhdan menn de Karan kada dipak milikan untur sayan kada pakan	Hydric Soil Present? Yes No
YDROLC)GY drology Indicators:	a dala da - 1 (daga da gal da ga an 1 aga da da	۵۵۹, «Գրունել աներինալ Չել հետես հետ		
rimary Indi	cators (minimum of o	ne required: c	heck all that apply)		Secondary Indicators (2 or more required)
Surface	Water (A1)		Water-Stained Leaves	(B9) (except MLR	
High W	ater Table (A2)		1, 2, 4A, and 4B)		4A, and 4B)
Saturati	ion (A3)		Salt Crust (B11)		Drainage Patterns (B10)
Water N	Aarks (B1)		Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sedime	nt Deposits (B2)		Hydrogen Sulfide Odor		Saturation Visible on Aerial Imagery (C9
	posits (83)		Oxidized Rhizospheres	along Living Root	ts (C3) Geomorphic Position (D2)
Algal M	at or Crust (B4)		Presence of Reduced I		Shallow Aquitard (D3)
	posits (B5)		Recent Iron Reduction	•	
	Soil Cracks (B6)		Stunted or Stressed Pl		
	ion Visible on Aerial I		Other (Explain in Rema	arks)	Frost-Heave Hummocks (D7)
	ly Vegetated Concave	Surface (B8)			₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩
ield Obse			Vana		
		88 No	Depth (inches):		
Vater Table		BS No	Depth (inches):		
aturation F		95 No	Depth (inches):	Wetia	and Hydrology Present? Yes No
escribe Re	pillary fringe) corded Data (stream	gauge, monito	oring well, aerial photos, previ	ious inspections). i	if available:
			÷ · · · · · · · · · · · · · · · · · · ·		
Remarks:	,				₩₩₩ ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩
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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Quality	Ark	City/County: C: 4 of Mor	JSVIR Sampling Date:	12-3-2
Applicant/Owner:		State:	WA Sampling Point:	DP#4
Investigator(s):	Sewall	Section, Township, Range:	NWI classification: s No (If no, explain in Remarks.) ed? Are "Normal Circumstances" present? Yes No	
Landform (hillslope, terrace, etc.):		Local relief (concave, convex, none)); Siop	xe (%):
Subregion (LRR):	Lat:	Long:	Datur	n:
Soil Map Unit Name:			IWI classification:	*****
Are climatic / hydrologic conditions o	n the site typical for this time of y	ear? Yes No (If no, -	explain in Remarks.)	
Are Vegetation, Soil,	or Hydrology significantly	v disturbed? Are "Normal Circui	mstances" present? Yes	No
Are Vegetation, Soil,	or Hydrology naturally pr	oblematic? (If needed, explain	any answers in Remarks.)	
SUMMARY OF FINDINGS -	Attach site map showing	sampling point locations, t	ransects, important fer	atures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	is the Sampled Area within a Wetland? Yes No
Remarks: Above	normal rainfall	Inst 60 days

VEGETATION - Use scientific names of plants.

	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species? Status	Number of Dominant Species 3
1. Populas balsaling		MC	That Are OBL, FACW, or FAC: (A)
2.			Total Number of Dominant 3
3			Species Across All Strata: (B)
4			
Sapling/Shrub Stratum (Plot size:		= Total Cover	Percent of Dominant Species / MC That Are OBL, FACW, or FAC: (A/B)
1. Rechus disul		FAC	Prevalence index worksheet:
-			Total % Cover of: Multiply by:
3.			OBL species x 1 =
4.			FACW species x 2 =
5			FAC species x 3 =
		= Total Cover	FACU species X 4 =
Herb Stratum (Plot size:)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.	UPL species x 5 =
1. Festra antra			Column Totals: (A) (B)
			Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
			Dominance Test is >50%
			Prevalence Index is ≤3.0 ¹
			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8			Wetland Non-Vascular Plants ¹
9			Problematic Hydrophytic Vegetation ¹ (Explain)
10			
11.			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:		= Total Cover	
			Hydrophytic
2.			Vegetation
		= Total Cover	Present? Yes No
% Bare Ground in Herb Stratum		- 19101 19151	
Remarks:	annað að sín a sen hann að segðingarðin að skenni filkar sín defnið sín að sína filka sín að sen heftir að sína	in firmi adda a dif a gif alla ida da a a da a da a da a da a da	
		*****	***************************************

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SOIL						Sampling Point:	>y "C
Profile Des	cription: (Describe to	the depth	needed to document the indicator or (confirm the	absence	of indicators.)	
Depth	Matrix		Redox Features			•	
(inches)	Color (moist)	%		Loc ² 1	l'exture	Remarks	
-7	102312						
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Sal		
14	10h 3/3			<u> </u>		ta-	-
			,				****
<del></del>						*******	
Type: C=C	oncentration. D=Deple	ion. RM=R	educed Matrix, CS=Covered or Coated S	Sand Grains	2Loc	cation: PL=Pore Lining, M=Matri	íx.
			Rs, unless otherwise noted.)			ors for Problematic Hydric Soil	a water and the second s
Histoso			Sandy Redox (S5)			n Muck (A10)	
	pipedon (A2)		Stripped Matrix (S6)			Parent Material (TF2)	
			Loamy Mucky Mineral (F1) (except M	04 41		er (Explain in Remarks)	
	listic (A3) en Sulfide (A4)		Loamy Gleyed Matrix (F2)	wine ()	On	with the second state of t	
	en Suinde (A4) Id Below Dark Surface	A11)	Depleted Matrix (F3)				
		~~···	Redox Dark Surface (F6)		3 Inclicato	ors of hydrophytic vegetation and	
	ark Surface (A12) Mucky Mineral (S1)		Depleted Dark Surface (F7)			ind hydrology must be present,	•
	Gleved Matrix (S4)		Redox Depressions (F8)			as disturbed or problematic.	
	Layer (if present):				unite:	ssumerumer of proventanc.	
	cayar (ii present):			1			
Type:							. /
Depth (in	iches);		alway.	H	ydric Soil	Present? Yes No	$\angle$
Remarks:	g, ay a y a y a y a y a y a y a y a y a y		,	ale en		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
IYDROLC	ЭGY			<del></del>		han Marina and a sub-anti-and-and-and-and-and-and-an-	nic <del>o al</del> ectuadadango
Wetland Hy	drology Indicators:					an de la segunda de la construcción	
Primary Indi	cators (minimum of one	required;	check all that apply)		Seco	ndary Indicators (2 or more requ	ired)
	Water (A1)		Water-Stained Leaves (89) (exc	ant MI RA		Vater-Stained Leaves (89) (MLR	
	ater Table (A2)		1, 2, 4A, and 48)		*	4A, and 48)	
	• •		Salt Crust (B11)		r	Tainage Patterns (B10)	
	ion (A3)					•	
	Aarks (B1)		Aquatic Invertebrates (B13)			Dry-Season Water Table (C2)	
	nt Deposits (B2)		Hydrogen Sulfide Odor (C1)			Saturation Visible on Aerial Image	ery (C9)
	posits (B3)		Oxidized Rhizospheres along Liv	ing Roots ((	-	Seomorphic Position (D2)	
Algal M	at or Crust (B4)		Presence of Reduced Iron (C4)			Shallow Aquitard (D3)	
Iron De	posits (B5)		Recent Iron Reduction in Tilled S	ioils (C6)	F	AC-Neutral Test (D5)	
Surface	Soil Cracks (B6)		Stunted or Stressed Plants (D1)	(LRR A)	F	Raised Ant Mounds (D6) (LRR A	)
Inundat	ion Visible on Aerial Im	agery (B7)	Other (Explain in Remarks)		F	rost-Heave Hummocks (D7)	
Sparsel	ly Vegetated Concave	urface (B8					
Field Obse				T		۵۹۹۳-۵۲۰۰۵ ۵۹۹ - ۲۰۰۰ ۱۹۳۰-۹۳۵-۹۹۹ - ۲۹۹۹ - ۲۹۹۹ ۹۹۹ ۹۹۹ ۹۹۹ ۹۹۹ ۹۹۹ ۹	
	ter Present? Yes	No	Bepth (inches):				
		and a state of the					
Water Table				144-44		man and the second second	
Saturation F		No	Depth (inches):	wetiand	riydrolog	y Present? Yes No	
Describe Re	pillary fringe) corded Data (stream o	auga, moni	toring well, aerial photos, previous inspe	tions) if av	ailable		
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ware for seril A	and the second s					
		-			وماردة والموالي في والموالي والمدوا		
Remarks:							
			****	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Any substantion of data operation