

Sewall Wetland Consulting, Inc.

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December 23, 2024

Yannick Debaupte 2223 W. Lake Sammamish Pkwy NE Redmond, Washington 98052

RE: Critical Areas Report - Parcels #628235 & #118235 Kittitas County, Washington SWC Job #24-181

Dear Yannick,

This report describes our observations and delineation of any jurisdictional wetlands or streams on Parcels #628235 & #118235, located off Snowshoe Lane in the Gold Creek area of unincorporated Kittitas County, Washington (the "site").



Above: Vicinity map of the site.

The site consists of two abutting parcels with an overall area of approximately 0.55 acres and located within a portion of Sections 11, Township 22 North, Range 11 East of the W.M.



Above: Kittitas County Taxsifter aerial image of the site.

METHODOLOGY

Ed Sewall of Sewall Wetland Consulting, Inc. inspected the site on December 5, 2024. The site was reviewed using methodology described in the **Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)** (USACOE September 2008) as required by the US Army Corps of Engineers starting in June of 2009. This is the methodology currently recognized by Kittitas County for wetland determinations and delineations. The site was also reviewed using methodology described in Soil colors were identified using the 1990 Edited and Revised Edition of the *Munsell Soil Color Charts* (Kollmorgen Instruments Corp. 1990.

Wetlands in Kittitas County are rated using the 2014 Washington State Department of Ecology Washington State *Wetland Rating System for Eastern Washington, 2014 Update*, dated June 2014 Publication No. 14-06-018.

OBSERVATIONS

Existing Site Documentation.

Prior to visiting the site, a review of several natural resource inventory maps was conducted. Resources reviewed included the Kittitas Taxsifter website, National Wetland Inventory Map, WDNR Fpars Stream Typing Map, Kittitas County flood & critical areas mapping, WDFW Priority Habitats and Species Maps, and the NRCS Soil Survey online mapping and Data.

Kittitas Taxsifter Website

The Kittitas Taxsifter website with streams, wetland and Shoreline layers activated depicts Gold Creek Pond to the south as a Shoreline of the state. The site is located within the "*Shoreline Residential*" zone.



Above: Kittitas County Taxsifter with wetland, stream and Shoreline layers activated.

National Wetlands Inventory (NWI)

The NWI map depicts no wetlands or streams on the site. Gold Creek Pond is depicted as a lacustrine, unconsolidated excavated feature.



Above: NWI map of the area of the site

Soil Survey

According to the NRCS Soil Mapper website, the site is mapped as containing moderately well drained Cryorthents cobbly ashy loam. Cryorthent soils are formed in alluvium with some volcanic ash. Cryorthent soils are not considered "hydric" or wetland 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 website

According to the WADNR FPARS website with stream types layers activated, Gold Creek Pond is depicted as a Type S water.



Above: WDNR Fpars Stream Mapping of the area of the site.

WDFW Priority Habitats Maps

According to the WDFW Priority Habitat Website with Public access layers activated, the site is located within the Township in which the northern spotted owl and gray wolf are known to exist. The site is also located within a "biodiversity corridor" which is a travel corridor for many wildlife species.

22/06	PHS Identify	* ×
NRO /	Generate Report	
	Occurrence Name	Biodiversity Areas And Corrid or
	Priority Area	Terrestrial Habitat
	Site Name	SNOQUALMIE PASS CORRIDOR
	Notes	Movement corridor for a multitude o f wildlife; large ungulates to smallma mmals and herptiles. Corridor is the f ocus of the I-90 east project,one of t he largest wildlife highway connectiv ity projects in the Western US.
	Source Record	920515
	Source Dataset	PHSREGION
The Area a	Source Name	SCOTT DOWNES
and the same and	Source Entity	WA Dept. of Fish and Wildlife
	Federal Status	N/A
	State Status	N/A
Sec. Sec.	PHS Listing Status	PHS Listed Occurrence
No. 1600	Sensitive	N
V	SGCN	Ν
	Display Resolution	AS MAPPED

Above: WDFW Priority Habitats Map of the site.

Field observations

The site consists of two abutting forested lots vegetated with a mix of mountain hemlock, silver fir and douglas fir with vine maple, huckleberry and bracken fern in the understory. The site is abutted by Snowshoe Lane to the north, single family lots to the east, Gold Creek Pond and its associated walking trail to the south, and a stormwater outflow channel to the west.

Soil pits excavated on the site revealed a very cobbly loam with a 2" layer of duff over a cobbly loam with a color of 10YR 3/3.

No areas meeting the criteria of a wetland or stream were found on the site.

Off-site Critical Areas

As previously described, Gold Creek Pond is located south of the site. Gold Creek pond is an old excavated borrow pit that was used during the construction of Interstate 90 many years ago. Gold Creek Pond is identified as a Type S water. The ordinary high water mark of the pond was located with gps points 333-342. At point 342 a drainage from a storm water outfall is located and drains into the lake.



Above: Mapping of Type S water and associated 100' buffer.

Gold Creek Pond is mapped as a Shoreline of the State or Type S water. Shoreline waters buffers are based upon KCC Table 17B.05.50-1. According to this table Type S waters in the Shoreline Residential Zone have a 100' buffer measured from the OHWM. An additional 15' BSBL is measured to any structure. 178.05.050-1. Standard Shoreline Buffers (Type S Waters)

Shoreline Environment Designation	Type S Standard Shoreline Buffer Width (feet)	
Urban Conservancy	100	
Shoreline Residential	100	
Rural Conservancy	100	
Natural	150	

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

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.

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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

Paral 628235

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site:	Deb	apte		_ City/County:	K,tt.	tas	Co	_ Sampling Date: _	12-5-24
Applicant/Owner:	- .	,		· · · · · · · · · · · · · · · · · · ·		State:	WA	Sampling Point: _	DP#/
Investigator(s):	Ed	Sal		Section, Town	ship, Range: _				
Landform (hillslope, ter	rrace, etc.):			_ Local relief (co	oncave, conve	x, none):		Slop)e (%):
Subregion (LRR):			Lat:		Lon	g:		Datur	n:
Soil Map Unit Name: _	Cry	or hurts			/	N	WI classific	cation:	
Are climatic / hydrologi	ic conditions	on the site typical for t	hi s time of y	/ear? Yes	No	(If no, e	explain in R	Remarks.)	/
Are Vegetation	, Soil	_, or Hydrology	significantl	y disturbed?	Are "Norm	al Circur	nstances" j	present? Yes 🧹	No
Are Vegetation	, Soil	_, or Hydrology	_ naturally p	roblematic?	(If needed	, explain	any answe	ers in Remarks.)	
	NDINOG	A 14							

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test workshee	et:	
Tree Stratum (Plot size:)	% Cover	Species?	Status_	Number of Dominant Specie		
1. Psudetsuga neurona	40		FACU	That Are OBL FACW or FA		(A)
2						~ ~
Z	+	<u></u>		Total Number of Dominant	~	
3		<u> </u>		Species Across All Strata:		(B)
4						
		= Total Co	ver	Thet Are OPL FACING on FA	s U	
Sapling/Shrub Stratum (Plot size:)				That Are OBL, FACTY, OF FA		(AVB)
1. Vaccinin metrum	20		mu	Prevalence Index workshe	et:	
2				Total % Cover of:	Multiply by:	
3				OBL species	_ x1=	
4				FACW species	x 2 =	_
5				FAC species	_ x 3 =	
		_ = Total Co	ver	FACU species	x 4 =	_
Herb Stratum (Plot size:)				UPL species	x 5 =	
1	ļ			Column Totals:	(A)	(B)
2					- ()	_ (-/
3	ļ			Prevalence Index = B/	/A =	_
4				Hydrophytic Vegetation Inc	dicators:	
5				Dominance Test is >50%	6	
6				Prevalence Index is ≤3.0	0 ¹	
7	l			Morphological Adaptatio	ons ¹ (Provide suppor	ting
8				uata in Remarks or o	in a separate sneet)	
		= Total Co	ver	Problematic Hydrophytic	c Vegetation' (Explai	n)
Woody Vine Stratum (Plot size:)						
1				¹ Indicators of hydric soil and	wetland hydrology r	nust
··				be present, unless disturbed	or problematic.	
۲. <u> </u>			<u> </u>			
		= Total Co	ver	Hydrophytic		
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Present? Yes	No	
Remarks:						

SOIL

Sampling Point:	Dp#1

Denth	Matrix	Ped	ov Feature			,
(inches)	Color (moist) %	Color (moist)	<u>0x1 cature</u> %	Tvpe ¹ L	oc ² Tex	ture Remarks
2."	JUFF					
	10413/3					
16	1011315				<u> </u>	
	<u></u>			<u></u>		
						
						······
¹ Tvoe: C=Co	oncentration, D=Depletion, RM	=Reduced Matrix. C	S=Covered	d or Coated S	and Grains.	² Location: PI =Pore Lining M=Matrix
Hydric Soil	Indicators: (Applicable to all	LRRs, unless oth	erwise not	ed.)	Ind	icators for Problematic Hydric Solls ³ :
Histosol	(A1)	Sandy Re	dox (S5)			1 cm Muck (A9) (I BB C)
Histic Fr	ninedon (A2)	Stripped M	latrix (S6)			2 cm Muck (A10) (I PP P)
Rlack Hi	stic (A3)		icky Minero	I (E1)		Reduced Vertic (E18)
Hvdroce	en Sulfide (A4)		wed Matrix	· (F2)		Red Parent Material (TE2)
Stratifier		Loany Ole	Jotriv (E2)	(r 2)		Neu Fareni Watellât (TFZ) Other (Evolain in Pomorka)
Urannet	$L = a_j c_{i,0} (1,0) (LIVE C)$	Depieted in	viauix (FJ) ek Surface (ES)		
i un iviu Denleter	Below Dark Surface (A14)		n Julidüe (Dark Surfa-	ιυ) ο (Ε7)		
	ark Surface (A12)		Jain Suffac	σ(Γ/) Ξο	31.	lipston of hydroxistic
INICK D8	un ouridue (ATZ)		pressions (l ala (EC)	-0)	Tind	incators of hydrophytic vegetation and
Sandy N	Noved Metrix (S1)	vernal Poo	ois (FA)		v	veuand hydrology must be present,
Sandy G	neyed Mainx (54)				u	niess disturbed or problematic.
Restrictive	Layer (it present):					
Туре:	·····					
Depth (ind	ches):				Hydi	ric Soil Present? Yes No 🚄
Remarks:						
	CV					· · · · · · · · · · · · · · · · · · ·
YDROLO	GY					
YDROLO	GY drology indicators:					
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Paral 118235

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Debny	city/Coun	v: KAtitas Co	Sampling Date: 12-5-24
Applicant/Owner:/		State:	Sampling Point: フ P # こ
Investigator(s):	Section, 7	ownship, Range:	
Landform (hillslope, terrace, etc.):	Local reli	ef (concave, convex, none):	Slope (%):
Subregion (LRR):	Lat:	Long:	Datum:
Soil Map Unit Name:		NWI clas	sification:
Are climatic / hydrologic conditions on the	site typical for this time of year? Yes_	No (If no, explain i	in Remarks.)
Are Vegetation, Soil, or Hy	drology significantly disturbed	? Are "Normal Circumstance	es" present? Yes No
Are Vegetation, Soil, or Hy	drology naturally problematic?	(If needed, explain any an	swers in Remarks.)
		na neint leastions transs	oto important fosturos sta

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, 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:				

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size:) 1	Absolute % Cover 50	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Abres alba 3.	20		FACU	Total Number of Dominant Species Across All Strata:
4		= Total Co	ver	Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)
1. Alous shink		<u> </u>	140	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 Co	ver	FACU species x 4 =
Herb Stratum (Plot size:)				UPL species x 5 =
1		<u> </u>		Column Totals: (A) (B)
23				Prevalence Index = B/A =
Δ				Hydrophytic Vegetation Indicators:
5	·			Dominance Test is >50%
6		<u></u>		Prevalence Index is ≤3.0 ¹
7		·		Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
о				Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:			/er	
1.				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cov	ver	Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Present? Yes No
Remarks:				

SOIL

Trome Description. (Describe to the depth ne	eded to document the indicator or cor	min the absence of mulcators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) % C	olor (moist)%Type ¹ o	² Texture Remarks
1" JUFA		
16 102313		a. 46
		<u> </u>
	······································	
¹ Type: C=Concentration D=Depletion PM-Pede		d Graine ² Looption: Di -Doro Lining MaMateix
Hydric Soil Indicators: (Applicable to all LRRs	s. unless otherwise noted.)	Indicators for Problematic Hydric Soils ³
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (AD) (I BB C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR C)
Black Histic (A3)	Supped Matrix (S6)	2 Chi Muck (ATU) (LRR B) Boduced Vertie (E18)
Hydrogen Sulfide (A4)	Loamy Gleved Matrix (E2)	reduced verdo (n to) Red Parent Material (TE2)
Stratified Lavers (A5) (I RR C)	Denieted Matrix (F3)	Other (Evolution in Remarks)
1 cm Muck (A9) (LRR D)	Bedox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present
Sandy Gleved Matrix (S4)		unless disturbed or problematic
Restrictive Laver (if present):		
Type		
Depth (inches):		
		Hydric Soil Present? Fes No
Remarks.		
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:		
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che	ck all that apply)	Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1)	ck all that apply) Salt Crust (B11)	Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2)	ck all that apply) Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3)	<u>ck all that apply)</u> Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	<u>ck all that apply)</u> Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	<u>ck all that apply)</u> Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxid zed Rhizospheres along Living	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	<u>ck all that apply)</u> Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Roots (C3) Dry-Season Water Table (C2) Crayfich Burgows (C2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	ck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxid zed Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C6)
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