



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

May 8, 2024

Josh Mitchell WLC Holdings-Swiftwater Storage 3581 SR 970 Cle Elum, Washington 98922

RE: Critical Area Report – Parcel #15445 Kittitas County, Washington SWC Job #20-150

Dear Josh,

This report is an addendum/update report to our October 12, 2020 Critical Areas Report for Parcel #15445 originally done for WLC Holdings.



Above: Vicinity Map of site

A. Wetland B revised Delineation based upon hydrology monitoring

At the time of the originally submitted report, Wetland B, identified as a Category III wetland was located on the south side of the site. The wetland was identified by the vegetation and soils but wetland hydrology was never confirmed as the delineation work was done in late summer.

Wetland B is an isolated depression that has a ditch connecting it to Wetland A to the north. The ditch appears to have been dug years ago to possibly drain this feature.

Over the last two years we have monitored the hydrology of this area in several test holes within the originally delineated "Wetland B" in the early growing season, which is the wettest time of the growing season for this area. We discovered that other than a small area on the south east corner of the site, the remainder had no evidence of wetland hydrology. As a result, we have modified the original delineation (see attached map) to accurately depict the area that actually meets all three wetland criteria. This results in a greatly reduced wetland in size. We have attached the original rating form for this wetland.

Wetland B was rated using the *WADOE Washington State Wetland Rating System for Eastern Washington* 2014 update (Publ No. 14-06-030). This wetland was rated as a depressional wetland and scored a total of 16 points with 5 points for habitat indicating a Category III wetland.

According to Kittitas County Municipal Code Chapter 17A.07.030, Category III wetlands have a buffer range of 75'-150' depending upon land use intensity. Assuming a moderate intensity land use (<1 unit per acre) for the site would result in a 110' buffer from the wetland edge. In addition, a 15' Building Setback line is required from the edge of the buffer.

Table	17A	07 030:	Standard	Buffer	Widths

Category of Wetland	Land Use with Low Impact ¹	Land Use with Moderate Impact ²	Land Use with High Impact ³
	125 ft	190 ft	250 ft
11	100 ft	150 ft	200 ft
111	75 ft	110 ft	150 ft
IV	25 ft	40 ft	50 ft

B. Interrupted Buffer Wetland A

In the originally submitted Critical Areas Report in 2020, we showed the buffer of Wetland A crossing the existing access road through the site as well as the gravel road which extended from the access road to the eastern side of the site. Since the time of the original submitted report, the County Code has changed and now includes a provision for "Interrupted Buffer- Kittitas County Code 17B.05.020G.4).

According to KCC 17B.05.020G.4 (Interrupted Buffer), when a buffer is bisected by a legally established private road, development on the landward side of the road may be allowed if it will not have any detrimental effects to the wetland as described below;

Interrupted buffer: When a wetland buffer contains an existing legally established public or private road, the Administrator may allow development on the landward side of the road provided that the development will not have a detrimental impact to the wetland. The applicant may be required to provide a wetland critical areas report to describe the potential impacts. In determining whether a critical areas report is necessary, the County shall consider the hydrologic, geologic, and/or biological habitat connection potential and the extent and permanence of the buffer interruption.

Given the location of the existing access road and the gravel road accessing portion of the site to the east, this area would meet the criteria of an interrupted buffer under this provision of Code. The areas south of the existing access road do not provide any major contributions to buffering the Wetland A as they are not heavily vegetated with large trees that contribute to the wetland, nor are they general drainage paths or habitat features within this buffer area. As a result, we have modified

the original map to depict the "interrupted buffer" stopping at the edge of the existing gravel roads on the site.

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 esewall@sewallwc.com.

Sincerely,

Sewall Wetland Consulting, Inc.

Til Sentl

Ed Sewall

Senior Wetlands Ecologist PWS #212

Attached: Site Survey with buffers

Data sheets

Rating Form & exhibits

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.

Kittitas County Municipal Code

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.

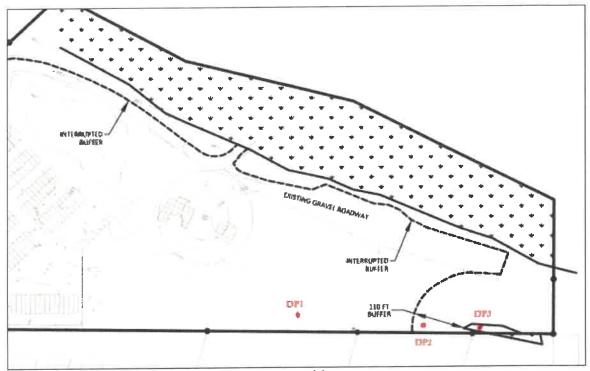
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Sewall Wetland Consulting, Inc. 10-12-20 WLC Holdings Critical Areas Report.

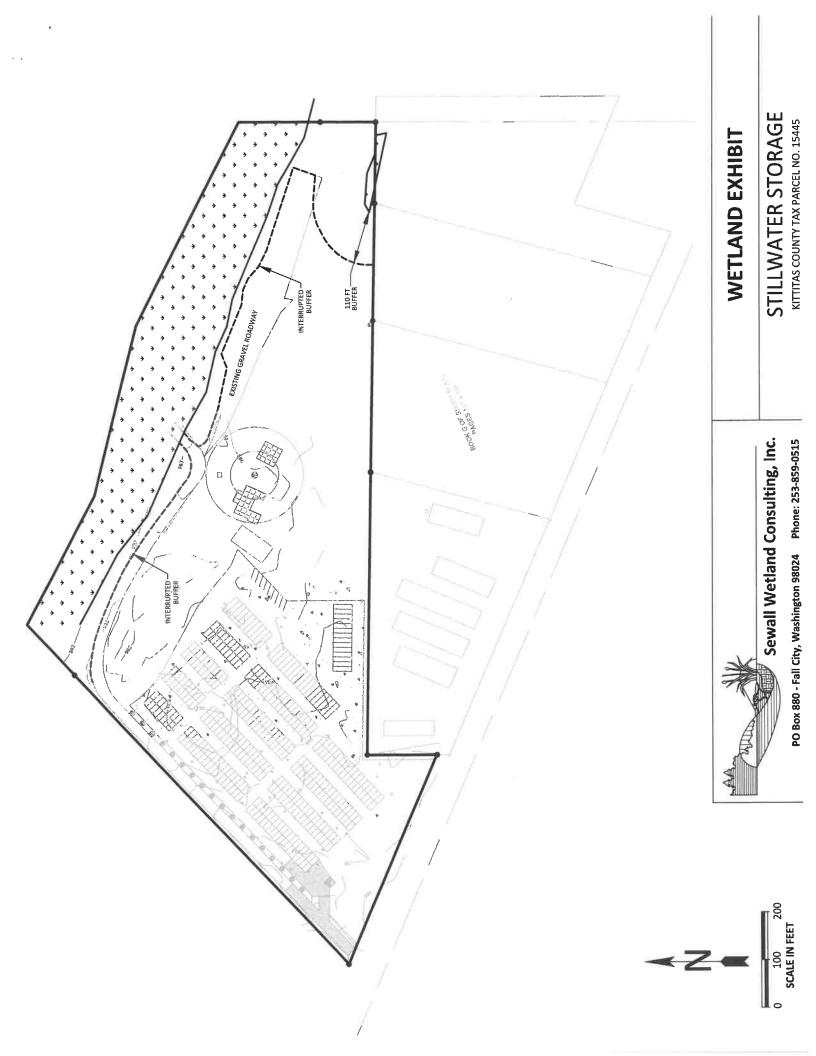
Reed, P., Jr. 1988. National List of Plant Species that Occur in Wetlands: Northwest (Region 9). 1988. U. S. Fish and Wildlife Service, Inland Freshwater Ecology Section, St. Petersburg, Florida.

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



Above: location of data points.



WETLAND DETERMINATION DATA FORM - Arid West Region

Flag A-24 word

Project/Site: 5+.//w	atu Stern	24	City/County: K.7	m fas	_ Sampling Date: _	4-5-24
Applicant/Owner		,		State: WA	Sampling Point:	POF
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re Vegetation, Soil, o				'Normal Circumstances'		No
re Vegetation, Soil, o	r Hydrology r	naturally pro	blematic? (If ne	eded, explain any ansv	vers in Remarks.)	
SUMMARY OF FINDINGS - A	Attach site map	showing	sampling point i	ocations, transect	ts, important fe	atures, etc.
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Wetland Hydrology Present?	Yes N	0				
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o		-	= Total Cover	FACU species		
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3				Hydrophytic Vegeta	ex = B/A =	
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7				data in Rema	rks or on a separate	sheet)
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Woody Vine Stratum (Plot size:)	-	- Total Cover			
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Black H	istic (A3)		Loamy Mucky Mi	neral (F1)			l Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gleyed M	atrix (F2)			ent Material (TF2)
	d Layers (A5) (LRR C	;) .	Depleted Matrix (Other (E	xplain in Remarks)
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	nt Deposits (B2) (Non		Oxidized Rhizos	, ,	Living Roo	ts (C3) Dry	-Season Water Table (C2)
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	posits (B3) (Nonriver	nie)	Recent Iron Rec	U			turation Visible on Aerial Imagery (C9)
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Water Table	Present? Ye	s No		A.	_		
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(includes ca	pillary fringe)						
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just south of old Flag
Region +24wctB

WETLAND DETERMINATION DATA FORM - Arid West Region

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Remarks:	W Rere Ground in Hart	n Stretum		% Co	ver of Blotic	rust		Vegetation Present?	Yes No	
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US Army Corps of Engineers

Sampling Point DP#Z

Profile Description: (Describe to the depti		Features		
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Type: C=Concentration, D=Depletion, RM=I	Reduced Matrix, CS=	Covered or Coated	Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Boll Indicators: (Applicable to all L	RRs. unless otherw	ise noted.)	Indic	ktörs för Problematic Hydric Solls ³ :
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Histosol (A1)	Stripped Matr			cm Muck (A10) (LRR B)
Histic Epipedon (A2)	Supped wate			Reduced Vertic (F18)
Black Histic (A3)	Loamy Gleye			Red Parent Material (TF2)
Hydrogen Sulfide (A4)				Other (Explain in Remarks)
Stratified Layers (A5) (LRR C)	Depleted Mat	The second second		and by the state of the state o
1 cm Muck (A9) (LRR D)	demodera	k Šurtace (F7)		
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Thick Dark Surface (A12)	Redox Depre			tland hydrology must be present,
Sandy Mucky Mineral (S1)	Vernai Poois	(Fa)		land hydrology most be present, less disturbed or problematic.
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Depth (inches): Remarks: YDROLOGY Wetland Hydrology indicators: Primary Indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	s11) (B12) Internates (B13) Internates (ving Roots (C3)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) DrysSeason Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology indicators: Primary Indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	811) (B12) Intebrates (B13) Ulfide Odor (C1) Izospheres along Li Reduced Iron (C4) Reduction in Tilled S	ving Roots (C3)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Depth (inches): Remarks: YDROLOGY Wetland Hydrology indicators: Primary Indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9) Field Observations:	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	(B12) Interrates (B13) Interrates (B13) Interrates (B13) Interrates (B13) Interrates (B13) Interrates along Lives Interrates along Lives Interrates (C4) Interrates (C7) Inter	ving Roots (C3)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) DrysSeason Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
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Depth (inches): Remarks: YDROLOGY Wetland Hydrology indicators: Primary Indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes N	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	(B12) Interrates (B13)	ving Roots (C3)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) DrysSeason Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
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Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Noncludes Capillary fringe)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain No Depth (inch	(B12) Intebrates (B13) Intebrates (B13) Intebrates (B13) Intebrates (B13) Intebrates (B13) Interpretation (C4) Interpretation	ving Roots (C3) Solls (C6) Wetland Hyd	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology indicators: Primary Indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes None of the present includes capillary fringe includes capillary	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain No Depth (inch	(B12) Intebrates (B13) Intebrates (B13) Intebrates (B13) Intebrates (B13) Intebrates (B13) Interpretation (C4) Interpretation	ving Roots (C3) Solls (C6) Wetland Hyd	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology indicators: Primary Indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Noncludes Water Present? Yes Noncludes Capillary fringe) Describe Recorded Data (stream gauge, monce	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explant) Depth (inch	(B12) Interrates (B13)	ving Roots (C3) Solls (C6) Wetland Hydections), if availab	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Popth (inches): Proposition Present? Present?	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explant) Depth (inch	(B12) Interrates (B13)	ving Roots (C3) Solls (C6) Wetland Hydections), if availab	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Popth (inches): Primary Indicators (minimum of one required: 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) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? VesN Water Table Present? Yes N Saturation Present? Yes N Saturation Present? Yes N Control of the process of	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explant) Depth (inch	(B12) Interrates (B13)	ving Roots (C3) Solls (C6) Wetland Hydections), if availab	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Popper (Inches): Primarks: Primary Indicators (minimum of one required: 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) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9) Field Observations: Surface Water Present? Ves Nater Table Present? Yes Na	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explant) Depth (inch	(B12) Interrates (B13)	ving Roots (C3) Solls (C6) Wetland Hydections), if availab	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

west end

WETLAND DETERMINATION DATA FORM - Arid West Region

Applicant/Owner:	Project/Site: 5till W-hu Sta	7 City/County: K	## Sampling Date: DP#3
Section, Township, Ranges Section, Township, Ranges Sobre (%) Sobre (%) Sobregon (IRR) Lact Long: Datum: NWI classification: NWI classif	A 15 A16 No. 10		State: WA Sampling Point: 4-5-2
Lactic (Pilatope, terrace, etc.): Storlegin (LRR): Lat: Long: Defum: NWI classification: NWI classificatio	Investigator(s):	Libert Control of the	
Solregion (LRR):		Local relief (concave,	convex, none): Slope (%):
No			Long: Datum:
Vec climatic / hydrologic conditions on the site typical for this time of year? Yes			NWI classification:
Are Nomal Circumstances' present? Yes No No No Note Vogetation 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 No			
Summary OF Findings	•		"Normal Circumstances" present? Yes No
SumMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegislation Present? Yes No No Wetland Hydrology Present? Yes No Dominance Test worksheet: Total Number of Dominant Species That Are OBL, FACW, or FAC. A. Total Number of Dominant Species That Are OBL, FACW, or FAC. Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Present? Yes No Dominance Test worksheet: Total Cover Total Number of Dominant Species That Are OBL, FACW, or FAC. (A) (B) Prevalence Index worksheet: Total Scover of Multiply by: OBL species X = Total Scover of Multipl			
Hydric Soli Present? Yes			
	Hydric Soil Present? Yes No	within a Wetlan	
Absolute			
Tree Stratum (Plot size:	VEGETATION – Use scientific names of plants.		
1.			Dominance Test worksheet:
2.			
A			Total Number of Dominant
Sapling/Shrub Stratum (Plot size:	3		
1.			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Total % Cover of: Multiply by: OBL species			Prevalence Index worksheet:
3.			1
### A			
Herb Stratum (Plot size:)			FACW species x 2 =
Herb Stratum (Plot size:)	5		FAC species x 3 =
1. Phaban and 2. PAC 2. Taph Inf. Dat. 2. PAC 3. Prevalence Index = B/A =	:	= Total Cover	
Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is <3.0¹ Prevalence Index is <3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size:) Total Cover Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No	Herb Stratum (Plot size:)	1) FACW	
3.			Column Totals: (A) (B)
4	/		Prevalence Index = B/A =
5			
6			Dominance Test is >50%
7			
8 Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size:) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. ### Total Cover Hydrophytic Vegetation Present? Yes No No			Morphological Adaptations¹ (Provide supporting
Woody Vine Stratum (Plot size:) 1	8		
1		= Total Cover	. roomings rydispriyss regulation (explain)
be present, unless disturbed or problematic. Total Cover Hydrophytic Vegetation Present? Yes No			
% Bare Ground in Herb Stratum % Cover of Biotic Crust Hydrophytic Vegetation Present? Yes No	-		
		= Total Cover	Vegetation
Remarks:	% Bare Ground in Herb Stratum % Cover of Bio	tic Clust	Present? Yes No No
	Remarks:		

Sampling Point:

Profile Desi	oription: (Describe	to the dept	h needed to documen	t the indicator or	confirm the abse	nce of Indicators.)
Depth	Matrix		Redox F	eatures	Loc ² Texture	Remarks
(inches)	Color (moist)		Color (molst)		LOC TEXTUTE	3 Kellial Na
18	104 3/2		Fen Fi	Sin A		

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	ж.					
	Av. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10					
-		·		-		
¹Type: C=C	oncentration D=De	eletion. RM=	Reduced Matrix, CS=C	overed or Coated	Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all l	RRs, unless otherwis	ie noted.)		tors for Problematic Hydric Bolls':
Histosol			Sandy Redox (1	1 0	em Muck (A9) (LRR C)
	pipedon (A2)		Stripped Matrix	1.		m Muck (A10) (LRR B)
	istic (A3)		Loamy Mucky I			duced Vertic (F18)
	en Sulfide (A4)		Loamy Gleyed			ed Parent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted Matrix			her (Explain in Remarks)
	ick (A9) (LRR D)		Redox Dark Su			•
	d Below Dark Surface	æ (A11)	Depleted Dark	1 ' '		
	ark Surface (A12)		Redox Depress		³ Indicat	tors of hydrophytic vegetation and
-	Aucky Mineral (S1)		Vernal Pools (F		wetta	and hydrology must be present,
	Sleyed Matrix (S4)				unle	ss disturbed or problematic.
	Layer (if present):					
Type:						
	ches):				Hydric \$	Soil Present? Yes No No
Remarks:						
NGHIBING.						
				1		
						
HYDROLO	GY					
Wetland Hy	drology Indicators	:				
Primary Indi	cators (minimum of	one required	; check all that apply)		<u>S</u>	econdary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust (B1	1)		_ Water Marks (B1) (Riverine)
-	ater Table (A2)		Biotic Crust (E	1		Sediment Deposits (B2) (Riverine)
Saturati			Aquatic Invert	1	_	Drift Deposits (B3) (Riverine)
_	farks (B1) (Nonrive	rine)		fide Odor (C1)		Drainage Patterns (B10)
	nt Deposits (82) (No			ospheres along Liv	ring Roots (C3)	Dry-Season Water Table (C2)
	· · ·			Reduced Iron (C4)		Crayfish Burrows (CB)
	posits (B3) (Nonrive			teduction in Tilled S	Soils (CA)	Saturation Visible on Aerial Imagery (C9)
	Soil Cracks (B6)	I				Shallow Aquitard (D3)
	on Visible on Aerial	imagery (b/				FAC-Neutral Test (D5)
	Stained Leaves (B9)		Other (Explain	i in remarks)	T	LVO_JAGORBI (BOT (DD)
Field Obser			/			
Surface Wat	ter Present?	/es 1	NoDepth (inche			,
Water Table	Present?	/es	No Depth (inche	s)		
Saturation P	resent?	/es 1	No Depth (inche	s)	Wetland Hydro	ology Present? Yes No
(includes ca	pillary fringe)		nitoring well assisted -	toe president inse-	etions) if available	4*
Describe Re	corded Data (Stream	n gauge, mo	nitoring well, aerial pho	nos, previous inspe	cuons), ii avallable	3.
Remarks:						
II.						

Wetland name or number	
RATING SUMMARY – Eastern Washington	
Name of wetland (or ID #): WLC WEIM Date of site visit:	5-25-21
Rated by Trained by Ecology? Yes No Date of	or training
HGM Class used for rating Department Wetland has multiple HGM classes?	Y_N
NOTE: Form is not complete without the figures requested (figures can be comb Source of base aerial photo/map	ined). —
OVERALL WETLAND CATEGORY (based on functions or special cha	racteristics)
1. Category of wetland based on FUNCTIONS	
1. Category of wetland based on Toric Horis	Score for each
Category I — Total score = 22-27	function based on three ratings
Category II - Total score = 19-21	order of ratings
Category III - Total score = 16-18	is not -
Category IV - Total score = 9-15	important)
	9 = H,H,H
FUNCTION Improving Hydrologic Habitat	0 - 11 11 84

FUNCTION		mprov iter Q		I be a second	ydrolo	gic		Habita	**	
			Circle	the a	ppropr	iate i	rating	5		
Site Potential	Н	(M)	L	Н	(M)	L	Н	М (
Landscape Potential	Н	M	L	Н	M	L.	Н	(A)	L	
Value	Н	М	0	Н	CAD	L	Н	(M)	L	TOTAL
Score Based on Ratings		5	-		6			5		16

8 = H,H,M7 = H,H,L 7 = H,M,M6 = H,M,L6 = M,M,M5 = H,L,L

 $5 = M_{\rm s}M_{\rm s}L$ 4 = M,L,L3 = L,L,L

2. Category based on SPECIAL CHARACTERISTICS of wetland

CATEGORY Trole the appropriate category
II III
I
l
I
I
II
II



Maps and figures required to answer questions correctly for Eastern Washington Depressional Wetlands

Map of:		To answer questions:	Figure #
Cowardin plant classes and classes of emergents		D 1.3, H 1.1, H 1.5	
Hydroperiods (including area of open water for H 1.3)		D 1.4, H 1.2, H 1.3	
Location of outlet (can be added to map of hydroperiods)		D 1.1, D 4.1	
Boundary of area within 150 ft of the wetland (can be adde	ed to another figure)	D 2.2, D 5.2	
Map of the contributing basin		D 5.3	
1 km Polygon: Area that extends 1 km from entire wetland polygons for accessible habitat and undisturbed habitat	l edge - including	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (from	m Ecology website)	D 3.1, D 3.2	
Screen capture of list of TMDLs for WRIA in which wetland		D 3.3	

Riverine Wetlands

Map of:		To answer questions:	Figure #
Cowardin plant classes and classes of emergents		H 1.1, H 1.5	
Hydroperiods		H 1.2, H 1.3	
Ponded depressions		R 1.1	
Boundary of area within 150 ft of the wetland (can be add	ed to another figure)	R 2.4	
Map of the contributing basin		R 2.2, R 2.3, R 5.2	
Plant cover of trees, shrubs, and herbaceous plants		R 1.2, R 4.2	
Width of wetland vs. width of stream (can be added to and	other figure)	R 4.1	
1 km Polygon: Area that extends 1 km from entire wetland polygons for accessible habitat and undisturbed habitat	d edge - including	H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (fro	m Ecology website)	R 3.1	
Screen capture of list of TMDLs for WRIA in which wetland	l is found (website)	R 3.2, R 3.3	00.000

Lake Fringe Wetlands

Map of:		To answer questions:	Figure #
Cowardin plant classes and classes of emergents		L 1.1, L 4.1, H 1.1, H 1.5	
Plant cover of trees, shrubs, and herbaceous plants		L 1.2	
Boundary of area within 150 ft of the wetland (can be ad	ded to another figure)	L 2.2	
1 km Polygon: Area that extends 1 km from entire wetlar polygons for accessible habitat and undisturbed habitat		H 2.1, H 2.2, H 2.3	
Screen capture of map of 303(d) listed waters in basin (fr	om Ecology website)	L 3.1, L 3.2	
Screen capture of list of TMDLs for WRIA in which wetlar		133	

Slope Wetlands

	To answer questions:	Figure #
	H 1.1, H 1.5	
	H 1.2, H 1.3	
ks	S 1.3	
plants	S 4.1	
ded to another figure)	S 2.1, S 5.1	
nd edge - including	H 2.1, H 2.2, H 2.3	
	S 3.1, S 3.2	
	S 3.3	
֡	plants ded to another figure) d edge - including	H 1.1, H 1.5 H 1.2, H 1.3 ts S 1.3 plants S 4.1 ded to another figure) S 2.1, S 5.1 Id edge - including H 2.1, H 2.2, H 2.3 om Ecology website) S 3.1, S 3.2

HGM Classification of Wetland in Eastern Washington

For questions 1-4, the criteria described must apply to the entire unit being rated.

If the hydrologic criteria listed in each question do not apply to the entire unit being rated, you probably have a unit with multiple HGM classes. In this case, identify which hydrologic criteria in questions 1-4 apply, and go to Question 5.

1.	Does the entire unit meet both of the followin The vegetated part of the wetland is on the of permanent open water (without any plat At least 30% of the open water area is deep	water side of the Ordinary High Water Mark of a body its on the surface) that is at least 20 ac (8 ha) in size
	NO - go to 2 YES	- The wetland class is Lake Fringe (Lacustrine Fringe)
2.	Does the entire wetland unit meet all of the fo The wetland is on a slope (slope can be very The water flows through the wetland in on seeps. It may flow subsurface, as sheetflow The water leaves the wetland without being	gradual), e direction (unidirectional) and usually comes from n, or in a swale without distinct banks;
•	NO - go to NOTE: Surface water does not pond in these t shallow depressions or behind hummocks (de deep).	YES – The wetland class is Slope ype of wetlands except occasionally in very small and pressions are usually <3 ft diameter and less than 1 foot
3.	Does the entire wetland unit meet all of the form. The unit is in a valley, or stream channel, values are stream or river; The overbank flooding occurs at least once.	where it gets inundated by overbank flooding from that
(flooding.	YES – The wetland class is Riverine essions that are filled with water when the river is not
4.	Is the entire wetland unit in a topographic dep surface, at some time during the year. This me of the wetland.	ression in which water ponds, or is saturated to the eans that any outlet, if present, is higher than the interior
	NO - go to 5	YES – The wetland class is Depressional
5.	classes. For example, seeps at the base of a slo stream within a Depressional wetland has a zo WHICH OF THE HYDROLOGIC REGIMES DESC AREAS IN THE WETLAND UNIT (make a rough	pe may grade into a riverine floodplain, or a small ne of flooding along its sides. GO BACK AND IDENTIFY RIBED IN QUESTIONS 1-4 APPLY TO DIFFERENT sketch to help you decide). Use the following table to ting system if you have several HGM classes present
347	Aland Basing Contains for To storm MA. 2014 Undate	1 3

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Wetland name or number

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

HGM classes within the wetland unit being rat	ed HGM Class to use in rating
Slope + Riverine	Riverine
Slope + Depressional	Depressional
Slope + Lake Fringe	Lake Fringe
Depressional + Riverine (the riverine portion is w the boundary of depression)	ithin Depressional
Depressional + Lake Fringe	Depressional
Riverine + Lake Fringe	Riverine

If you are still unable to determine which of the above criteria apply to your wetland, or if you have **more** than 2 HGM classes within a wetland boundary, classify the wetland as Depressional for the rating.

DEPRESSIONAL WEIL	ANDS	Points
Water Quality Functions - Indicators that the site function		Control
		box
D 1.0. Does the site have the potential to improve water quality?		181
D 1.1. Characteristics of surface water outflows from the wetland:		
Wetland has no surface water outlet	points = 5	
Wetland has an intermittently flowing outlet	points = 3)
Wetland has a highly constricted permanently flowing outlet	points = 3	3
Wetland has a permanently flowing, unconstricted, surface outle	et points = 1	٠
D 1.2. The soil 2 in below the surface (or duff laver) is true clay or true		
8132	YES = 3 (NO = 0	
D 1.3. Characteristics of persistent vegetation (Emergent, Scrub-shrub,	and/or Forested Cowardin classes)	
Wetland has persistent, ungrazed, vegetation for > 2/2 of area	(points = 5)	>
Wetland has persistent, ungrazed, vegetation from $^{1}/_{3}$ to $^{2}/_{3}$ of a	rea points = 3	
Wetland has persistent, ungrazed vegetation from $^{1}/_{10}$ to $< ^{1}/_{3}$ of	farea points = 1	-week
Wetland has persistent, ungrazed vegetation < 1/10 of area	points = 0	
D 1.4. Characteristics of seasonal ponding or inundation:		
This is the area of ponding that fluctuates every year. Do not cou	int the area that is permanently ponded.	
Area seasonally ponded is > 1/2 total area of wetland	points = 3	
Area seasonally ponded is ¼ - ½ total area of wetland	points = 1	ς ,
Area seasonally ponded is < 1/4 total area of wetland	noints = 0	. 1
Total for D 1	Add the points in the boxes above	9
		Gunt vicini
Rating of Site Potential If score is: 12-16 = H 6-11 = M	0-5=L Record the rating on th	ie jirst paye
D 2.0. Does the landscape have the potential to support the wat	er quality function of the site?	
D 2.1. Does the wetland receive stormwater discharges?	Yes = 1 (No = 0	0
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses the		0
D 2.3. Are there septic systems within 250 ft of the wetland?	Ves = No = 0	
D 2.4. Are there other sources of pollutants coming into the wetland the	nat are not listed in questions	
D 2.1- D 2.3? Source	Yes = 1 No = 0	
Total for D 2	Add the points in the boxes above	
Rating of Landscape Potential If score is: 3 or 4 = H 1 or 2 = N	10 ≈ L Record the rating on th	ne first page
	ushla to coclety?	
D 3.0. Is the water quality improvement provided by the site val		
D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream	m, river, or take that is on the $sus(a)$ list? Yes = $No = 0$	
D 3.2. Is the wetland in a basin or sub-basin where water quality is an	issue in some aquatic resource [303(d) list,	-11-0
eutrophic lakes, problems with nuisance and toxic algae ?	Yes = 1 (No = 0)	
D 3.3. Has the site been identified in a watershed or local plan as impo	rtant for maintaining water quality (answer YES	
if there is a TMDL for the drainage or basin in which the wetland		C
Total for D 3	Add the points in the boxes above	0
Rating of Value If score is: 2-4 = H 1 = M 0 = L	Record the rating on t	ne Jirst page

DEPRESSIONAL W Hydrologic Functions - Indicators that the site function		olets only 1 score ser poxi
D 4.0. Does the site have the potential to reduce flooding ar		
D 4.1. Characteristics of surface water outflows from the wetland		
Wetland has no surface water outlet	points = 8	
Wetland has no surface water dutiet Wetland has an intermittently flowing outlet	points = 4	
Wetland has a highly constricted permanently flowing outle		
Wetland has a permanently flowing unconstricted surface		4
(If outlet is a ditch and not permanently flowing treat we lo	and as "intermittently flowing")	<u> </u>
D 4.2. Depth of storage during wet periods: Estimate the height of wetlands with no outlet, measure from the surface of perm. Seasonal handing: > 3 ft above the lowest point in wetland.	of ponding above the battom of the outlet. For nament water or deepest part (if dry). I or the surface of permanent ponding points = 8	
Seasonal ponding: 2 ft - < 3 ft above the lowest point in we	etland or the surface of permanent pondingpoints = 6	
The wetland is a headwater wetland	points = 4	
Seasonal ponding: 1 ft - < 2 ft	points = 4	
Seasonal ponding: 6 in - < 1 ft	points = 2	2
Seasonal ponding: < 6 in or wetland has only saturated soil	s points = 0	
Total for D 4	Add the points in the boxes above	4
Rating of Site Potential If score is: 12-16 = H 6-11 = M D 5.0. Does the landscape have the potential to support the	0-5 = L Record the rating on the hydrologic functions of the site?	
D 5.1. Does the wetland receive stormwater discharges?	Yes = No = 0	0
D 5.2. Is $>$ 10% of the area within 150 ft of the wetland in a land D 5.3. Is more than 25% of the contributing basin of the wetland		0
Total for D 5	Add the points in the boxes above	ì
tating of Landscape Potential If score is:3 = H1 or 2 = N	MO = L Record the rating on to	he first pag
D 6.0. Are the hydrologic functions provided by the site val	luable to society?	
D 6.1. The wetland is in a landscape that has flooding problems Choose the description that best matches conditions around the highest score if more than one condition is met. The wetland captures surface water that would otherwise damaged human or natural resources (e.g., houses or sain	t. flow down-gradient into areas where flooding has	
Flooding occurs in sub-basin that is immediately dow		
Surface flooding problems are in a sub-basin farther		5
The existing or potential outflow from the wetland is so co water stored by the wetland cannot reach areas that flood	onstrained by human or natural conditions that the	
Explain why	points = 0	1
There are no problems with flooding downstream of the v	wetland points = 0	Ì '
D 6.2. Has the site has been identified as important for flood stop plan?	rage or flood conveyance in a regional flood control Yes = 2 No = 0	0
Total for D 6	Add the points in the boxes above	1
Rating of Value If score is: 2-4 = H 1 = M 0 = L	Record the rating on t	he first pag
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These questions apply to wetla HABITAT FUNCTIONS - Indicators that site functions	图1000 COLD 1000 COLD COLD COLD COLD COLD COLD COLD COLD	(only 1 score per box)
H 1.0. Does the wetland have the potential to provide hal	itat for many species?	
H 1.1. Structure of the plant community: Check the cowardin vegetation classes present and category is >= % ac or >= 10% of the wetland if wetland i Aquatic bed		
Emergent plants 0-12 in (0-30 cm) high are the high Emergent plants >12-40 in (>30-100 cm) high are the		
Emergent plants > 40 in (> 100 cm) high are the high		
Scrub-shrub (areas where shrubs have >30% cover)	4 or more checks: points = 3	
Forested (areas where trees have >30% cover)	3 checks: points = 2 2 checks: points = 1	,
	1 check: points = 0	
H 1.2. Is one of the vegetation types Aquatic Bed?	Yes = 1 No = 0	0
H 1.3. Surface water H 1.3.1. Does the wetland have areas of open water (wit 10% of its area during the March to early June C for Lake Fringe wetlands. H 1.3.2. Does the wetland have an intermittent or perma or along one side, over at least ¼ ac or 10% of it	R in August to the end of September? Answer YES Yes = 3 points & go to H 1.4 (to = go to H 1.3.2) nent, and unvegetated stream within its boundaries,	0
H 1.4. Richness of plant species Count the number of plant species in the wetland that conspecies can be combined to meet the size threshold. You not include Eurasian milfoll, reed canarygrass, purple thistie, yeliow-jiag iris, and saitcedar (Tamarisk) # of species	do not have to name the species.	
	4.9 species: points = 1 < 4 species: points = 0	1
H 1.5. Interspersion of habitats Decide from the diagrams below whether interspersion and unvegetated areas (open water or mudflats) is high, lise map of Cowardin and emergent plant classes prepared H 1.3. If you have four or more plant classes or three classes.	among types of plant structures (described in H 1.1), moderate, low, or none. ed for questions H 1.1 and map of apen water from	Figure
None = 0 points Low = 1 point	Moderate = 2 points	
All three diagrams in this row are High = 3 points		ı
	Rinarian braided channels with 2 classes	

				_
Metland	nama	Or	mum	her

H 1.6. Special habitat features		
Check the habitat features that are present in the wetlan	d. The number of checks is the number of points.	
	y debris (> 4 in diameter) within the area of surface	
ponding or in stream.		
Cattails or bulrushes are present within the wetland	4 1 215 00 400 63 645 - 455	
Standing snags (diameter at the bottom > 4 in) in th	wetland or within 30 m (100 ft) of the edge.	l
Emergent or shrub vegetation in areas that are peri	hanentiy inundated/ponded.	1
Stable steep banks of fine material that might be us	ed by beaver or muskrat for denning (> 45 degree	
slope) OR signs of recent beaver activityInvasive species cover less than 20% in each stratur	n of vegetation (canony sub-canony shrubs	1
herbaceous, moss/ground cover)	of vegetation (tunopy, sau-tunopy, sindus,	•
Total for H 1	Add the points in the boxes above	4
Rating of Site Potential If score is: 15-18 = H 7-14 = M	0-6 = L Record the rating on the first page	
H 2.0. Does the landscape have the potential to support h		* * *
H 2.1. Accessible habitat (only area of habitat abutting wetland). If total accessible habitat is:	
Calculate: 3 % undisturbed habitat 9 + [(% moder		
> 1/3 (33.3%) of 1 km Polygon	points = 3	
20-33% of 1km Polygon	points = 2	1
10-19% of 1km Polygon	points = 1	\sim
<10% of 1km Polygon	points = 0	0
H 2.2. Undisturbed habitat in 1 km Polygon around wetland.	- , -	
Calculate: 50% undisturbed habitat 30 + [(% moder	ate and low intensity land uses)/2] 15 = 65 %	
Undisturbed habitat > 50% of Polygon	points = 3	
Undisturbed habitat 10 - 50% and in 1-3 patches	points = 2	
Undisturbed habitat 10 - 50% and > 3 patches	points = 1	~
Undisturbed habitat < 10% of Polygon	points = 0	3
H 2.3. Land use intensity in 1 km Polygon:		
> 50% of Polygon is high intensity land use	points = (-2)	
Does not meet criterion above	points = 0	5
H 2.4. The wetland is in an area where annual rainfall is less that	n 12 in, and its water regime is not influenced by	
irrigation practices, dams, or water control structures. G		_
reclamation areas, irrigation districts, or reservoirs	Yes = 3 (No = 0)	0
Total for H 2	Add the points in the boxes above	3
Rating of Landscape Potential If score is: 4-9 = H 1-3 =		
H 3.0. Is the habitat provided by the site valuable to socie		
H 3.1. Does the site provide habitat for species valued in laws,	egulations, or policies? Choose the highest score	
that applies to the wetland being rated		
Site meets ANY of the following criteria:	points = 2	
— It has 3 or more priority habitats within 100 m (see).		
- It provides habitat for Threatened or Endangered sp		
It is mapped as a location for an individual WDFW s		
it is a Wetland of High Conservation Value as determined to the second sec		
- It has been categorized as an important habitat site	in a local or regional comprehensive plan, in a	
Shoreline Master Plan, or in a watershed plan	- F	
Site has 1 or 2 priority habitats within 100 m (see Apper		
Site does not meet any of the criteria above	points = 0	
Rating of Value If score is: 2 = H	ecord the rating on the first page	

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B

CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS

Please determine if the wetland meets the attributes described below and circle the appropriate category. NOTE: A wetland may meet the criteria for more than one set of special characteristics. Record all those that apply. NOTE: All wetlands should also be characterized based on their functions.

Wetland Type Check of any criterio that apply to the wetland, Circle the category when the appropriate covers are med.	
SC 1.0. Vernal pools	
is the wetland less than 4000 ft ² , and does it meet at least two of the following criteria?	
Its only source of water is rainfall or snowmelt from a small contributing basin and has no groundwater	
input.	
Wetland plants are typically present only in the spring; the summer vegetation is typically opinion	
annuals. If you find perennial, utiligate, wetland plures, the wetland is probably NOT a vernal pool.	
— The soil in the wetland is shallow [< 1 ft (30 cm)deep] and is underlain by an impermeable layer such as basalt or clay.	
— Surface water is present for less than 120 days during the wet season.	
Yes – Go to SC 1.1 (No = Not a vernal pool	
SC 1.1. Is the vernal pool relatively undisturbed in February and March?	
Yes – Go to SC 1.2 No = Not a vernal pool with special characteristics	
SC 1.2. Is the vernal gool in an area where there are at least 3 separate aquatic resources within 0.5 mi (other wetlands, rivers, lakes etc.)? Yes = Category II No = Category III	Cat. ii Cat. III
SC 2.0. Alkali wetlands Does the wetland meet one of the following criteria? — The wetland has a conductivity > 3.0 mS/cm.	
— The wetland has a conductivity between 2.0 and 3.0 mS, and more than 50% of the plant cover in the	
wetland can be classified as "alkali" species (see Table 4 for list of plants found in alkali systems).	
— If the wetland is dry at the time of your field visit, the central part of the area is covered with a layer of salt.	
OR does the wetland unit meet two of the following three sub-criteria?	
— Salt encrustations around more than 75% of the edge of the wetland	
- More than ¾ of the plant cover consists of species listed on Table 4	
— A pH above 9.0. All alkali wetlands have a high pH, but please note that some freshwater wetlands	
may also have a high pH. Thus, pH alone is not a good indicator of alkali wetlands.	Cat. i
Yes = Category I No= Not an alkali wetland	
SC 3.0. Wetlands of High Conservation Value (WHCV)	
SC 3.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High	
SC 3.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High Conservation Value? Yes – Go to SC 3.2 No – Go to SC 3.3	
SC 3.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High Yes – Go to SC 3.2 No – Go to SC 3.3 SC 3.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value?	Cat I
SC 3.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High Conservation Value? SC 3.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value? Yes = Category I No = Not a WHCV	Cat. I
SC 3.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High Conservation Value? SC 3.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value? Yes = Category I No = Not a WHCV SC 3.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland?	Cat. I
SC 3.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High Conservation Value? SC 3.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value? Yes = Category I No = Not a WHCV SC 3.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland? http://www1.dnr.wa.gov/nhp/refdesk/datasearch/wnhpwetlands.pdf	Cat. I
SC 3.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High Conservation Value? SC 3.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value? Yes = Category I No = Not a WHCV SC 3.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland? http://www1.dnr.wa.gov/nhp/refdesk/datasearch/wnhpwetlands.pdf Yes = Contact WNHP/WDNR and go to SC 3.4 I O = Not a WHCV	Cat. I
SC 3.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High Conservation Value? SC 3.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value? Yes = Category I No = Not a WHCV SC 3.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland? http://www1.dnr.wa.gov/nhp/refdesk/datasearch/wnhpwetlands.pdf	Cat. I

	7.00
SC 4.0 Bogs and Calcareous Fens	
Does the wetland (or any part of the wetland unit) meet both the criteria for soils and vegetation in bogs or	
calcareous fens? Use the key below to identify if the wet and is a bog or calcareous fen. If you answer yes	
you will still need to rate the wetland based on its functions.	
SC 4.1. Does an area within the wetland have organic soil horizons (i.e., layers of organic soil), either peats or	
mucks, that compose 16 in or more of the first 32 in of the soil profile? See Appendix C for a field key to	
identify organic soils. Yes – Go to SC 4.3 No – Go to SC 4.2	
SC 4.2. Does an area within the wetland have organic soils, either peats or mucks, that are less than 16 in deep over	
bedrock or an impermeable hardpan such as clay or volcanic ash, or that are floating on top of a lake or	
pond? Yes – Go to SC 4.3 No = is not a bog for rating	
SC 4.3. Does an area within the wetland have more than 70% cover of mosses at ground level AND at least 30% of	
the total plant cover consists of species in Table 5? Yes = Category I bog No - Go to SC 4.4	
NOTE: If you are uncertain about the extent of mosses in the understory, you may substitute that criterion	
by measuring the pH of the water that seeps into a hole dug at least 16 in deep. If the pH is less than 5.0	
and the plant species in Table 5 are present, the wetland is a bog.	
SC 4.4. Is an area with peats or mucks forested (> 30% cover) with subalpine fir, western red cedar, western	
hemlock, lodgepole pine, quaking aspen, Engelmann spruce, or western white pine, AND any of the species	Cat. I
(or combination of species) listed in Table 5 provide more than 30% of the cover under the canopy?	Cat. I
Yes = Category I bog No - Go to SC 4.5	
SC 4.5. Do the species listed in Table 6 comprise at least 20% of the total plant cover within an area of peats and	
mucks? Yes = Is a Calcareous Fen for purpose of rating No – Go to SC 4.6	
SC 4.6. Do the species listed in Table 6 comprise at least 10% of the total plant cover in an area of peats and mucks.	
AND one of the two following conditions is met:	
— Marl deposits [calcium carbonate (CaCO₃) precipitate] occur on the soil surface or plant stems	Cat. I
— The pH of free water is ≥ 6.8 AND electrical conductivity is ≥ 200 uS/cm at multiple locations within the	
wetland Yes = Is a Category I calcareous fen No = Is not a calcareous fen	
	To the second
SC 5.0. Forested Wetlands	
and the second s	l.

SC 5.0. Forested Wetlands	
Does the wetland have an area of forest rooted within its boundary that meets at least one of the following three criteria? (Continue only if you have identified that a forested class is present in question H 1.1)	
— The wetland is within the 100 year floodplain of a river or stream	F
Aspen (Populus tremuloides) represents at least 20% of the total cover of woody species ~	0,
- There is at least ¼ ac of trees (even in wetlands smaller than 2.5 ac) that are "mature" or	
"old-growth" according to the definitions for these priority habitats developed by WDFW (see definitions in question H3.1)	4
Yes - Go to SC 5.1 No = Not a forested wetland with special characteristics	
SC 5.1. Does the wetland have a forest canopy where more than 50% of the tree species (by cover) are slow	Cat. I
growing native trees (see Table 7)? Yes = Category No - Go to SC 5.2	
SC 5.2. Does the wetland have areas where aspen (<i>Populus tremuloides</i>) represents at least 20% of the total cover of woody species? Yes = Category No - Go to SC 5.3	Cat. I
SC 5.3. Does the wetland have at least ¼ acre with a forest canopy where more than 50% of the tree species (by cover) are fast growing species (see Table 7)? Yes = Category II No – Go to SC 5.4	Cat. II
SC 5.4. is the forested component of the wetland within the 100 year hoodplain of a river or stream? Yes = Category II No = Not a forested wetland with special characteristics	Cat. II
Category of wetland based on Special Characteristics	
Choose the highest rating if wetland falls into several categories	NIT
If you answered No for all types, enter "Not Applicable" on Summary Form	

Appendix B: WDFW Priority Habitats in Eastern Washington

Priority habitats listed by WDFW (see complete descriptions of WDFW priority habitats, and the counties in which they can be found, in: Washington Department of Fish and Wildlife. 2008. Priority Habitat and Species List. Olympia, Washington. 177 pp. http://wdfw.wa.gov/publications/00165/wdfw00165.pdf or access the list from here: http://wdfw.wa.gov/conservation/phs/list/)

Count how many of the following priority habitats are within 330 ft (100 m) of the wetland: NOTE: This question is independent of the land use between the wetland and the priority habitat.

- Aspen Stands: Pure or mixed stands of aspen greater than 1 ac (0.4 ha).
- **Biodiversity Areas and Corridors**: Areas of habitat that are relatively important to various species of native fish and wildlife (full descriptions in WDFW PHS report).
- Old-growth/Mature forests: Old-growth east of Cascade crest Stands are highly variable in tree species composition and structural characteristics due to the influence of fire, climate, and soils. In general, stands will be >150 years of age, with 10 trees/ac (25 trees/ha) that are > 21 in (53 cm) dbh, and 1-3 snags/ac (2.5-7.5 snags/ha) that are > 12-14 in (30-35 cm) diameter. Downed logs may vary from abundant to absent. Canopies may be single or multi-layered. Evidence of human-caused alterations to the stand will be absent or so slight as to not affect the ecosystem's essential structures and functions. Mature forests Stands with average diameters exceeding 21 in (53 cm) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80-200 years old west and 80-160 years old east of the Cascade crest.
- Oregon White Oak: Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak
 component is important (full descriptions in WDFW PHS report p. 158 see web link above).
- Riparian: The area adjacent to aquatic systems with flowing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other.
- -- Instream: The combination of physical, biological, and chemical processes and conditions that interact to provide functional life history requirements for instream fish and wildlife resources.
- Caves: A naturally occurring cavity, recess, void, or system of interconnected passages under the earth in soils, rock, ice, or other geological formations and is large enough to contain a human.
- Chiffs: Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation.
- Talus: Homogenous areas of rock rubble ranging in average size 0.5 6.5 ft (0.15 2.0 m), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.
- Snags and Logs: Trees are considered snags if they are dead or dying and exhibit sufficient decay characteristics to enable cavity excavation/use by wildlife. Priority snags have a diameter at breast height of > 12 in (30 cm)in eastern Washington and are > 6.5 ft (2 m) in height. Priority logs are > 12 in (30 cm) in diameter at the largest end, and > 20 ft (6 m) long.
- Shrub-steppe: A nontorested vegetation type consisting of one or more layers of perennial bunchgrasses and a conspicuous but discontinuous layer of shrubs (see Eastside Steppe for sites with little or no shrub cover).
- Eastside Steppe: Nonforested vegetation type dominated by broadleaf herbaceous flora (i.e., forbs), perennial bunchgrasses, or a combination of both. Bluebunch wheatgrass (Pseudoroegneria spicata) is often the prevailing cover component along with Idaho fescue (Festuca idahoensis), Sandberg bluegrass (Poa secunda), rough fescue (F. campestris), or needlegrasses (Achnatherum spp.).
- juniper Savannah: All juniper woodlands.

Note: All vegetated wetlands are by definition a priority habitat but are not included in this list because they are addressed elsewhere.

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