

# Sewall Wetland Consulting, Inc.

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

November 16, 2020

Sean Northrop FRPP Phase I LLC 116 ½ Washington Street Seattle, Washington 98104



Kittitas County CDS

RE: Critical Area Report - Creekside Road and Forest Ridge Drive

FRP Phase I

Kittitas County, Washington

SWC Job #20-171

Dear Sean,

This report describes our observations of any jurisdictional wetlands, streams and/or buffers on or within 200' of the proposed Forest Ridge Road Phase I project located within a portion Section 24, Township 20 North, Range 15 East of the W.M in Kittitas County, Washington.

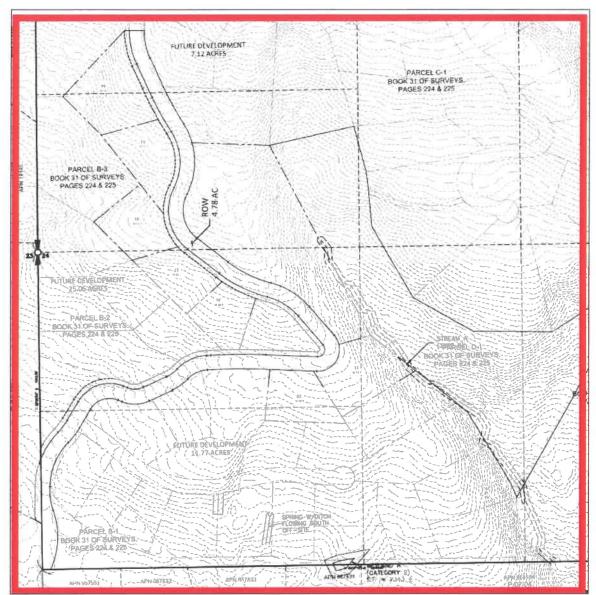


Above: Vicinity Map of site



Above: Aerial photograph of the study area from Kittitas Mapsifter website with wetland and DNR water type layers activated.

Specifically the site consists of Parcels #16034, # 22023, #22024,#173034, #203034, and portions of Parcels # 22025, #22026 & # 22027.



Above: The study area portion taken from the Encompass Engineering & Surveying site maps.

#### **METHODOLOGY**

Ed Sewall of Sewall Wetland Consulting, Inc. inspected the site and areas within 200' on November 11, 12, 13 and 24 of 2009. The site was revisited in November of 2020 to confirm that the characteristics of the critical areas observed had not changed.

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 the 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.

These wetlands on-site were rated using the Washington State Wetlands Rating System for Eastern Washington (Pub. #91-58) as required by Kittitas County.

The ordinary high water mark (OHWM) of stream was located based upon the criteria described in the *Washington Department of Ecology draft* publication Determining The Ordinary High Water Mark on Streams In Washington State (WADOE Publication 08-06-001, March 2008).

#### **OBSERVATIONS**

Existing Site Documentation.

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

#### National Wetlands Inventory (NWI)

The NWI map depicts several streams crossing the site. No wetlands are depicted on the site.



Above: NWI map of the area of the site

# Soil Survey

According to the NRCS Soil Mapper website, the site is mapped as entirely as Teanaway Ashy Loam 10%-25% slopes. This soils is a moderately well drained soil formed in loess over glacial till or outwash. Teanaway 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**

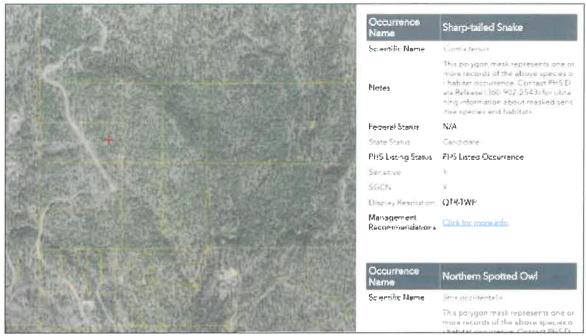
According to the WADNR FPARS website with stream types layers activated, there are portions of three (3) Type N streams passing through the site. These match the locations of the streams depicted on the NWI mapping as well as the County Mapping of Type 4 waters.



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

# **WDFW Priority Habitats and Species Maps**

The WDFW Priority Habitats and Species mapping for the site depicts the site located within a Township that contains possible habitat for the Northern Spotted Owl, as well as potential habitat for sharp tailed snakes.



Above: WDFW Priority Habitat Mapping of the site (entire Township which site is part of has a light shading indicating these species).

#### Field observations

The site consists of a south sloping forested hillside covered with immature ponderosa pine and douglas fir with scattered cottonwoods. An existing road (partially paved and partially gravel) known as Forest Ridge Road passes through the site. The site has defined ravines with small seasonal streams flowing through them. The site was logged approximately 20 years ago and has had some past mining activity in the form of small prospect holes scattered throughout the site.

In addition to the trees noted above, understory species include clustered rose, snowberry, oceanspray, Oregon grape, kinnikinic, vine maple, bracken fern, knapweed and scattered clumps of quackgrass. Piles of old slash from past logging activities are found throughout the site.

Soils throughout the majority of the site consist of gravelly loams with soil colors of 10YR3/3-3/4 with no hydric soil indicators or evidence of wetland hydrology.

#### **Wetlands**

There are two small wetland areas that were identified on the site on the southern boundary east of the existing road. Below is a description of these wetlands;

### Wetland A

Wetland A is a 2,343sf isolated scrub-shrub wetland located in a small depression. This wetland was flagged with pink flagging labeled A1-A5. Vegetation noted within this wetland includes willow, hardhack, and an unidentified sedge (Carex spp.).

Soil pits excavated within this wetland area revealed a clay loam with a color of 10YR 2/1 with few, fine, faint, redoximorphic concentrations. Soils saturated at the surface during our non-growing season observation of the wetland.

Wetland A was rated using the Washington State Wetlands Rating System for Eastern Washington (Pub. #91-58) as required by Kittitas County. Using this system Wetland A rates as a Category III wetland, with Wetland A receiving 15 overall points.

According to Kittitas Municipal Code Chapter 17A.04.020, Category III wetlands >10,000sf in size have a 20'-80' buffer. Wetland A is < 10,000sf and would therefore not have any prescribed buffer.

#### Wetland B

Wetland B is a small scrub shrub wetland (Flags B1-B4) located approximately 200' northwest of Wetland A. This wetland is similar to Wetland A in that it is a very small (approximately 500sf) isolated depression covered with shrubs such as willow, rose, and sedge.

Soil pits excavated within this wetland area revealed a clay loam with a color of 10YR 2/1 with few, fine, faint, redoximorphic concentrations. Soils saturated at the surface during our non-growing season observation of the wetland.

Wetland B was rated using the Washington State Wetlands Rating System for Eastern Washington (Pub. #91-58) as required by Kittitas County. Using this system Wetland A rates as a Category III wetland, with Wetland B receiving 15 overall points.

According to Kittitas Municipal Code Chapter 17A.04.020, Category III wetlands >10,000sf in size have a 20'-80' buffer. Wetland B is < 10,000sf and would therefore not have any prescribed buffer.

### Streams A & B

Stream A originates near the north-central of the site to the east of Forest Ridge Road in a well defined ravine. This channel is approximately 12" wide and is surrounded by a mix of vine maple, hazelnut, willows and snowberry. The channel appears to flow only during snow melt in the spring and flows over some areas of exposed sandstone bedrock. No water was observed in the channel during our site visits but is assumed to flow in the spring during snow melt.

Stream B is similar in character to wetland A and is also 12"-24" in width and had no flow during our site visits.

WADNR has mapped these streams as a Type N water which appears appropriate as the channel is <3' in width and flows down areas exceeding 16% slope which would preclude any fish migration into this small drainage.

Streams A & B on-site meets the criteria of a Type 4 water due to lack of fish sue and channel width below 2'. This equates to a Type N water in the new stream typing system. According to KCMC 17A.07.010, Type 4 waters have a "10-20 feet from the intersection with a Type 1, 2 or 3 water for a distance of 40 to 500 feet. From the point at which the buffer ends (40 - 500 feet upstream from the confluence), there shall be a 15-foot structural setback from the ordinary high water mark."

These streams appear to be over 500' from the intersection with the Type 3/F water and therefore would have the 15' structural setback.

#### Stream C

Stream C originates near the northwest corner of the site near Forest Ridge Road, and is a very small seasonal drainage approximately 12" in width. The feature is very poorly defined and may not flow at all during

some years depending on the amount and intensity of snow melt. We never observed any flow in this poorly defined channel.

WADNR has mapped this stream as a Type N water which appears appropriate as the channel is <3' in width and flows down areas exceeding 16% slope which would preclude any fish migration into this small drainage.

Stream C on-site meets the criteria of a Type 4 water due to lack of fish sue and channel width below 2'. This equates to a Type N water in the new stream typing system. According to KCMC 17A.07.010, Type 4 waters have a "10-20 feet from the intersection with a Type 1, 2 or 3 water for a distance of 40 to 500 feet. From the point at which the buffer ends (40 - 500 feet upstream from the confluence), there shall be a 15-foot structural setback from the ordinary high water mark."

This segment of Stream C appears to be over 500' from the intersection with the Type 3/F water and therefore would have the 15' structural setback.

## **Proposed Project**

No impacts to wetlands streams or buffers are proposed.

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 <a href="mailto:esewall@sewallwc.com">esewall@sewallwc.com</a>.

Sincerely,

Sewall Wetland Consulting, Inc.

Il Sent

Ed Sewall

Senior Wetlands Ecologist PWS #212

Attached: Data sheets & Rating Forms

Site Maps

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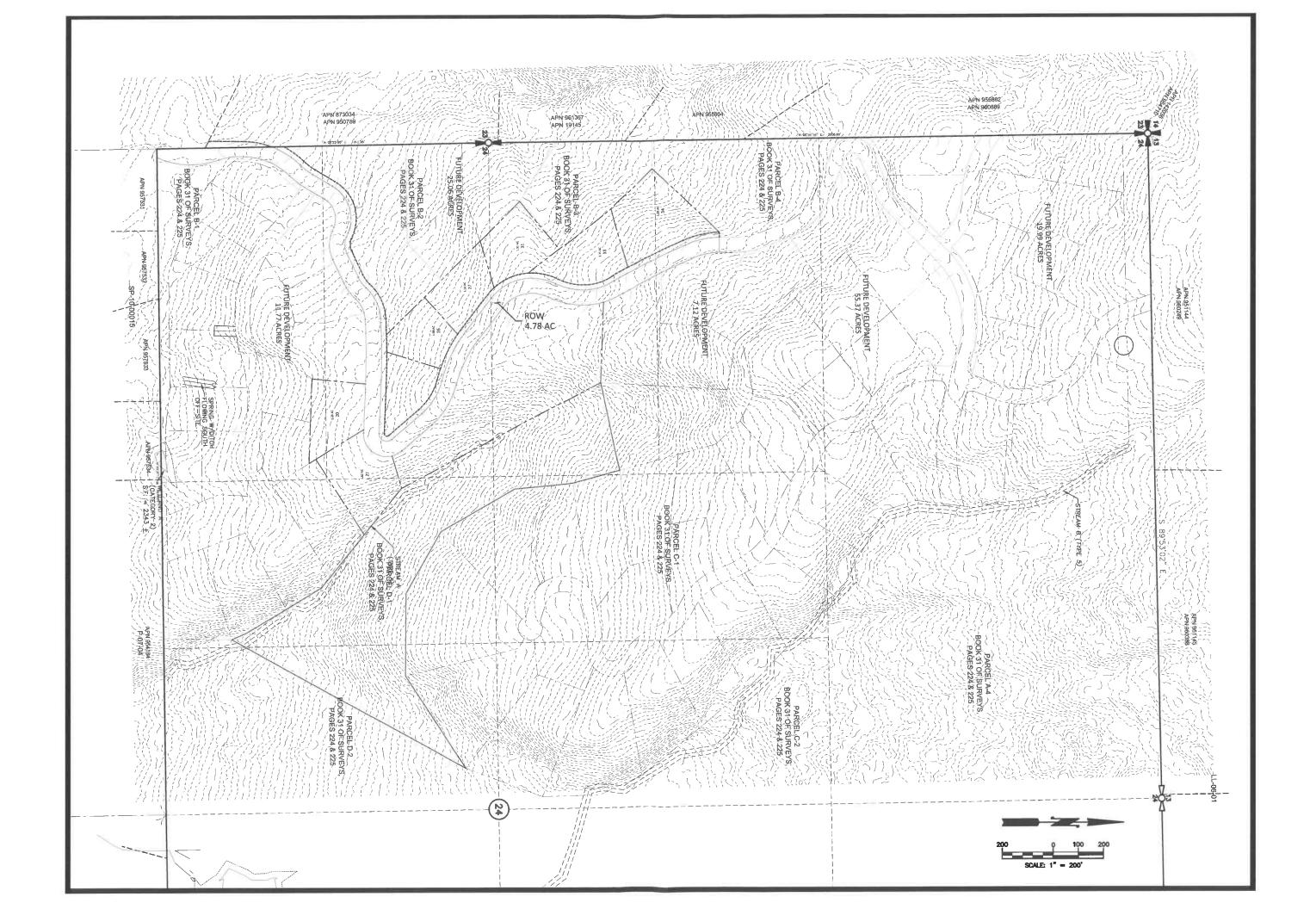
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Reed, P.B. Jr. 1993. 1993 Supplement to the list of plant species that occur in wetlands: Northwest (Region 9). USFWS supplement to Biol. Rpt. 88(26.9) May 1988.

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



wetland A

#### WETLAND DETERMINATION DATA FORM - Arid West Region

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Vetland Hydrology Indicators:  Secondary Indicators (any one indicator is sufficient)  Surface Water (A1)  Sulface 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)  Water Table Present?  Yes  No  Depth (inches):  Veter Table Present?  Yes  No  Depth (inches):  Yes  No  Depth (inches):  Yes  No  Depth (inches):  Yes  No  No  No  No  No  No  No  No  No  N	*
Surface Water (A1) Surface Water (A2) Surface Water Table (A2) Surface Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Sufface Soli (B2) (Nonriverine) Surface Soli Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Surface Water Present? Water Table Present? Ves No Depth (Inches): Ves No Dept	
Surface Water (A1) Saturation (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Satiment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Seturation Present? Water Table Present? Yes No Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Present? Wetland Hydrologic Recorded Date (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ndary Indicators (2 or more required)
Biotic Crust (B12)	Vater Marks (B1) (Riverine)
Saturation (A3)	Sediment Deposits (B2) (Rivertne)
Saturation (A3)	Orift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Tonit Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Calculation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sedimental Leaves (B9) Selection (B9) Selectio	Oralnage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Ield Observations:  urface Water Present?  Yes No Depth (inches):  aturation Present?  Yes No Depth (inches):  wescribe Recorded Date (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Ield Observations:  Urface Water Present?  Ves No Depth (Inches):  Joeth (Inches):  Joeth (Inches):  Wateration Present?  Yes No Depth (Inches):  Joeth (Inches):  Wateration Present?  Yes No Depth (Inches):  Wateration Present?  Wateration Present?  Yes No Depth (Inches):  Wateration Present?  Wateration Present?	
Surface Soil Cracks (B6) Recent Iron Reduction In Plowed Soils (C6) Sinundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Simulated Leaves (B9) Petronomy Stained Leaves (B9) Sinundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sinundation Remarks Sinundation Sinundation Remarks Sinundation Remarks Sinundation Remarks Sinundation Remarks Sinundation Remarks Sinundation Sinundation Remarks Si	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) S Water-Stained Leaves (B9) F  ield Observations:  surface Water Present?	Crayfish Burrows (C8)
Water-Stained Leaves (B9)  Jeld Observations:  surface Water Present? Yes No Depth (inches):  Vater Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  Water Table Presen	Saturation Visible on Aerial Imagery (C9
ield Observations:  Surface Water Present? Yes No Depth (inches):  Vater Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  Wetland Hydrology Includes capillary fringe)  Wescribe Recorded Data (stream gauge, monitoring well, acrial photos, previous inspections), if available:	Shallow Aquitard (D3)
Water Present?  Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): Vater Table Present? Yes	AC-Neutral Test (D5)
Vater Table Present? Yes No Depth (Inches): Wetland Hydrological Research Present? Yes No Depth (Inches): Wetland Hydrological Research Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available:	
Vater Table Present? Yes No Depth (Inches): Wetland Hydrology includes capillary fringe)  Wescribe Recorded Date (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
saturation Present? Yes No Depth (inches): Wetland Hydrology ncludes capillary fringe) lescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
includes capillary fringe) Describe Recorded Date (stream gauge, monitoring well, acrial photos, previous inspections), if available:	v Precent? Yes No
Describe Recorded Date (stream gauge, monitoring well, acrial photos, previous inspections), if available:	J. 14041K1 185 NV
emarks:	
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## WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Forest Project Phose	I ,	City/County	, K	this Sampling Date:
Applicant/Owner:				State: WO Sampling Point: DP#
nvestigator(s): Ed Seml	1	Section. To	wnship. Ra	nge: 524 TZON RISE
andform (hillstope, terrace, etc.): ht//6/-pe				
threnion (I DD):	Lati		(	l ono: Datum:
Subregion (LRR):	It low	_		hital classification
ne climatic / hydrologic conditions on the site typical for this				
re Vegetation, Soil, or Hydrology sig	•			
re Vegetation, Soil, or Hydrology na				
UMMARY OF FINDINGS - Attach site map s	howing	samplin	g point l	ocations, transects, important features, et
Hydrophytic Vegetation Present? Yes No Hydric Soll Present? Yes No Wetland Hydrology Present? Yes No Remarks:			e Sampled In a Wetlar	AArea nd? Yes No
/EGETATION	Absolute	Dominant	indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)  1. Pirus palue se	% Cover 20		Status FAZN	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant Species Across All Strata: (B)
4Total Cover:				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1. Supplies carnets 2. Cutylus carnets	30		FAU	Prevalence Index worksheet:
			FALL	Total 96 Cover of: Multiply by:
3				OBL species x 1 = FACW species x 2 =
4				
5Total Cover:				FACU species x 3 =
Herb Stratum				UPL species x 5 =
1				Column Totals: (A) (B)
2				1
3				Prevalence index = B/A =
				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.01  Morphological Adaptations (Provide supporting
7				data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum	<del></del>			
1				¹Indicators of hydric soil and wetland hydrology must
2				be present.
Total Cover:				Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	VSI R2V		Present? Yes No
Remarks:				

		-		
Samol	เกก	PAI	ni.	

D	B. Mandarder	Dades Castings		
Depth (inches)	Matrix Color (moist) %	Redox Features Color (moist) % Type L	oc <sup>2</sup> Texture	Remarks
10	101K313		lam	
				0
			(	24
¹Type: C=Co	ncentration, D=Depletion,	RM=Reduced Matrix. <sup>2</sup> Location: PL=Pore Li	ning, RC=Root Chan	nel, M=Metrix.
		o all LRRs, unless otherwise noted.)		for Problematic Hydric Soits <sup>3</sup> :
Histosol (	(A1)	Sandy Redox (S5)	1 cm i	Muck (A9) (LRR C)
Histic Epi	pedan (A2)	Stripped Matrix (S6)	2 cm 1	Muck (A10) (LRR B)
Black His		Loamy Mucky Mineral (F1)		ed Vertic (F18)
	Sulfide (A4)	Loamy Gleyed Matrix (F2)	_	arent Material (TF2)
	Layers (A5) (LRR C)	Depleted Matrix (F3)	Other	(Explain in Remarks)
	ck (A9) (LRR D)	Redox Dark Surface (F6)		
	Below Dark Surface (A11			
_	rk Surface (A12)	Redox Depressions (F8)	3 <sub>to effont one</sub>	of hydrophytic vegetation and
	ucky Mineral (S1) ieyed Matrix (S4)	Vernal Pools (F9)		I hydrology must be present.
_	ayer (if present):		Worlding	myeroogy maar be present.
Type:	when fit biggerie			_
	h \.		Mudda Sali	Present? Yes No
Remarks:	hes):		Tiyan ou	140
			o indian	·
TYDROLOG	3Y			
				ndery indicators (2 or more required)
Wetland Hyd	refegy indicators:		Seco	
_	rology indicators: ators (any one indicator is	sufficient)	-	Vater Marks (B1) (Riverine)
Primary Indic		sufficient) Sait Crust (B11)	v	
Primary Indic	ators (any one indicator is			Vater Marks (B1) (Riverine)
Primary Indic	ntors (any one indicator is Water (A1) ter Table (A2)	Self Crust (B11)		Vater Marks (B1) (Riverine) sediment Deposits (B2) (Riverine)
Primary Indic Surface \ High Wat Saturatio	ntors (any one indicator is Water (A1) ter Table (A2)	Sait Crust (B11) Biotic Crust (B12)		Vater Marks (B1) (Riverine) sediment Deposits (B2) (Riverine) orift Deposits (B3) (Riverine)
Primary Indica Surface No. High Wai Saturatio Water Ma Sediment	ators (any one indicator is Mater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriveri	Sait Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) ins) Oxidized Rhizospheres along Livit	S S S S S S S	Vater Marks (B1) (Riverine) Bediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Oralnege Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7)
Primary Indica Surface No. High Wai Saturatio Water Ma Sediment	ators (any one indicator is Mater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) ine) Oxidized Rhizospheres along Livit Presence of Reduced Iron (C4)	S S S S S S S S S S S S S	Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) with Deposits (B3) (Riverine) wathage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Wayfleh Burrows (C8)
Primary Indica Surface V High Wai Saturatio Water Ma Sediment Drift Dep	ators (any one indicator is Mater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriveri	Salt Crust (B11)  Biotic Crust (B12)  Aquatic invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livis  Presence of Reduced iron (C4)  Recent Iron Reduction in Plowed in		Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) orith Deposits (B3) (Riverine) orange Patterns (B10) ory-Season Water Table (C2) thin Muck Surface (C7) orayfish Burrows (C8) deturation Visible on Aerial Imagery (C9)
Primary Indicates Surface V High Wat Saturatio Water Ma Sediment Drift Dep Surface S Inundation	ators (any one indicator is Mater (A1) ter Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriveri osits (B3) (Nonriverine) Soil Cracks (B8) n Visible on Aerial Imager	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livit  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed in		Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orange Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Orayfish Burrows (C8) deturation Visible on Aerial Imagery (C9) Whithallow Aquitant (D3)
Primary Indicate Surface V High Wat Saturatio Water Mi Sediment Drift Dep Surface S Inundatio Water-St	ators (any one indicator is Water (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriveri osits (B3) (Nonriverine) Soil Cracks (B8) in Visible on Aerial Imager ained Leaves (B8)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livit  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed in		Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) orith Deposits (B3) (Riverine) orange Patterns (B10) ory-Season Water Table (C2) thin Muck Surface (C7) orayfish Burrows (C8) deturation Visible on Aerial Imagery (C9)
Primary Indicates Surface V High Wat Saturatio Water Ma Sediment Drift Dep Surface S Inundation	ators (any one indicator is Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) soil Cracks (B8) in Visible on Aerial Imager ained Leeves (B8)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livit  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed (C4)  Other (Explain in Remarks)		Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) orit Deposits (B3) (Riverine) orange Patterns (B10) ory-Season Water Table (C2) Thin Muck Surface (C7) orayfish Burrows (C8) deturation Visible on Aerial Imagery (C9) thallow Aquitand (D3)
Primary Indicated Number of Number o	ators (any one indicator is Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) soits (B3) (Nonriverine) Soil Cracks (B6) in Visible on Aerial Imager ained Leaves (B9) rations: in Present? Yes	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livit  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Iron (Explain in Remarks)		Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) orit Deposits (B3) (Riverine) orange Patterns (B10) ory-Season Water Table (C2) Thin Muck Surface (C7) orayfish Burrows (C8) deturation Visible on Aerial Imagery (C9) thallow Aquitand (D3)
Primary Indicated Surface Notes Indicated Surface Surf	ators (any one indicator is Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) soits (B3) (Nonriverine) Soil Cracks (B6) in Visible on Aerial Imager ained Leaves (B9) rations: in Present? Yes	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livit  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed (C4)  Other (Explain in Remarks)		Vater Marks (B1) (Riverine) idediment Deposits (B2) (Riverine) intit Deposits (B3) (Riverine) intit Deposits (B3) (Riverine) intit Deposits (B10) intit Depo
Primary Indica Surface V High Water Ma Sediment Drift Dep Surface S Inundation Water-St Field Observ Surface Water Water Table I Saturation Pre	ators (any one indicator is Water (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) it Deposits (B2) (Nonriverine) soits (B3) (Nonriverine) soil Cracks (B8) in Visible on Aerial Imager ained Leaves (B9) sations: ir Present? Yes Present? Yes	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livit  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Iron (Explain in Remarks)		Vater Marks (B1) (Riverine) dediment Deposits (B2) (Riverine) orit Deposits (B3) (Riverine) orange Patterns (B10) ory-Season Water Table (C2) Thin Muck Surface (C7) orayfish Burrows (C8) deturation Visible on Aerial Imagery (C9) thallow Aquitand (D3)
Primary indica  Surface V High Wai  Saturatio  Water Mi  Sediment  Drift Dep  Surface S Inundatio  Water-St  Field Observ  Surface Water  Water Table I  Saturation Profinctudes can	ators (any one indicator is Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) soils (B3) (Nonriverine) Soil Cracks (B8) in Visible on Aerial Imager ained Leaves (B9) sations: ir Present? Present? Yes essent? Yes essent? Yes essent?	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livit  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Iron (Explain in Remarks)  No Depth (inches):  No Depth (inches):	Solis (C6)	Vater Marks (B1) (Riverine) idediment Deposits (B2) (Riverine) intit Deposits (B3) (Riverine) intit Deposits (B3) (Riverine) intit Deposits (B10) intit Depo
Primary Indicated Surface Value May Sediment Drift Dep Surface Sediment Drift Dep Surface Structure Water Table Includes capage Concludes Capage Capa	ators (any one indicator is Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) soils (B3) (Nonriverine) Soil Cracks (B8) in Visible on Aerial Imager ained Leaves (B9) sations: ir Present? Present? Yes essent? Yes essent? Yes essent?	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livit  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed (C4)  Other (Explain in Remarks)	Solis (C6)	Vater Marks (B1) (Riverine) idediment Deposits (B2) (Riverine) intit Deposits (B3) (Riverine) intit Deposits (B3) (Riverine) intit Deposits (B10) intit Depo
Primary Indicated Surface Value May Sediment Drift Dep Surface Sediment Drift Dep Surface Structure Water Table Includes capage Concludes Capage Capa	ators (any one indicator is Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) soils (B3) (Nonriverine) Soil Cracks (B8) in Visible on Aerial Imager ained Leaves (B9) sations: ir Present? Present? Yes essent? Yes essent? Yes essent?	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livit  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Iron (Bxplain in Remarks)  No Depth (inches):  No Depth (inches):  Remonitaring well, serial photos, previous inspect	mg Roots (C3) 1 Solis (C6) S F  Wetland Hydrolog lions), if available:	Vater Marks (B1) (Riverine) idelment Deposits (B2) (Riverine) inth Deposits (B3) (Riverine) inthege Patterns (B10) iny-Season Water Table (C2) Thin Muck Surface (C7) intraction Visible on Aerial Imagery (C9) inthegraphy (C3) inturation Visible on Aerial Imagery (C9) interpretable (C3) interpretabl
Primary Indicated Surface Notes Inches Primary Indicated Surface Surface Surface Water Table I Saturation Presented Records Re	ators (any one indicator is Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) soils (B3) (Nonriverine) Soil Cracks (B8) in Visible on Aerial Imager ained Leaves (B9) sations: ir Present? Present? Yes essent? Yes essent? Yes essent?	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livit  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Iron (Bxplain in Remarks)  No Depth (inches):  No Depth (inches):  Remonitaring well, serial photos, previous inspect	Solis (C6)	Vater Marks (B1) (Riverine) idelment Deposits (B2) (Riverine) inth Deposits (B3) (Riverine) inth Deposits (B3) (Riverine) inth Deposits (B10) inth Deposits (B10) inth Muck Surface (C7) inth Muck Surface (C7) inth Muck Surface (C7) inth Muck Surface (C8) inturation Visible on Aerial Imagery (C9) inth Deposits (C9) in
Primary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Dep Surface S Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pro	ators (any one indicator is Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) soils (B3) (Nonriverine) Soil Cracks (B8) in Visible on Aerial Imager ained Leaves (B9) sations: ir Present? Present? Yes essent? Yes essent? Yes essent?	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livit  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Iron (Bxplain in Remarks)  No Depth (inches):  No Depth (inches):  Remonitaring well, serial photos, previous inspect	mg Roots (C3) 1 Solis (C6) S F  Wetland Hydrolog lions), if available:	Vater Marks (B1) (Riverine) idelment Deposits (B2) (Riverine) inth Deposits (B3) (Riverine) inth Deposits (B3) (Riverine) inth Deposits (B10) inth Deposits (B10) inth Muck Surface (C7) inth Muck Surface (C7) inth Muck Surface (C7) inth Muck Surface (C8) inturation Visible on Aerial Imagery (C9) inth Deposits (C9) in
Primary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Dep Surface S Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pro	ators (any one indicator is Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) soils (B3) (Nonriverine) Soil Cracks (B8) in Visible on Aerial Imager ained Leaves (B9) sations: ir Present? Present? Yes essent? Yes essent? Yes essent?	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livit  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Iron (Bxplain in Remarks)  No Depth (inches):  No Depth (inches):  Remonitaring well, serial photos, previous inspect	mg Roots (C3) 1 Solis (C6) S F  Wetland Hydrolog lions), if available:	Vater Marks (B1) (Riverine) idelment Deposits (B2) (Riverine) inth Deposits (B3) (Riverine) inth Deposits (B3) (Riverine) inth Deposits (B10) inth Deposits (B10) inth Muck Surface (C7) inth Muck Surface (C7) inth Muck Surface (C7) inth Muck Surface (C8) inturation Visible on Aerial Imagery (C9) inth Deposits (C9) in

## WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Forest Project Phose	I	City/County	K,	thas	Sampling Date:	11-4-0
Applicant/Owner:				State: WA	Sampling Point:	DP#
Investigator(s): Ed Seml		Section To	emship, Rec	noe: 524	TZON RI	5E
Landform (hillstope, terrace, etc.):						
Subregion (LRR):	It low			NiM classi	fication:	
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation soil or Hydrology si	_					No
Are Vegetation, Soil, or Hydrology no						
SUMMARY OF FINDINGS - Attach site map s						atures, etc.
Hydrophytic Vegetation Present?  Hydric Soll Present?  Wetland Hydrology Present?  Yes No.	<u> </u>		e Sampled in a Wetlar	Area d? Yes	No	
Wetland Hydrology Present? Yes No Remarks:	<u> </u>					
VEGETATION						
	Absolute	Dominant		Dominance Test wo	rksheet:	
Tree Stratum (Use scientific names.) 1	% Cover			Number of Dominant That Are OBL, FACV	Species //, or FAC:	3(A)
2				Total Number of Dom Species Across All St		) (B)
3						(B)
Total Cover:				Percent of Dominant That Are OBL, FACV		(A/B)
Saning/Shrub Stratum  1. Posa pisocapia	30		FAL	Prevalence Index w	orksheet:	-
2. Salix 5-toling	20		FACE	Total % Cover of	Multipl	y by:
3.				OBL species		
4				FACW species		
5				FAC species		
Total Cover:				FACU species		
1. Carex 3pg	20		FRW	Column Totals:		
2						
3				the same of the sa	ex = B/A =	
4				Hydrophytic Vegeta  Dominance Test		
5				Prevalence Index		
7				Morphological Ad		supporting
				Problematic Hydi		,
Woody Vine Stratum						1-41-11/
1			-	<sup>1</sup> indicators of hydric s be present.	oil and wetland hydr	ology must
2Total Cover:				Hydrophytic		
	of Biotic Cr			Vegetation	/es No	
Remarks:						

Depth Matrix	Redox Features 6 Color (moist) % Type Loc	Texture Remarks
	S Color (moist) % Type Loc	Fe and Refreshis
14 101 ZII	The true fruit	70-
vpe; C=Concentration, D=Depletion	DM=Deduced Matrix 2 ocation: DI =Pore i inin	g, RC=Roct Channel, M=Matrix.
	to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis*:
_ Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
_ Black Histic (A3)	Loemy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
_ 1 cm Muck (A9) (LRR D) _ Depleted Below Dark Surface (A1	Redox Dark Surface (F6)  1) Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	Sindicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	<del></del>	watland hydrology must be present.
strictive Layer (if present):		
		L .
Туре:		
Depth (inches):		Hydric Soli Present? Yes No
Depth (inches):emarks:		Hydric Soli Present? Yes No
Depth (inches): emarks:  **PROLOGY **Value of the state o		Secondary Indicators (2 or more required
Depth (inches):emarks;  PDROLOGY  Fetland Hydrology Indicators: rimary indicators (any one indicator);		Secondary Indicators (2 or more required Water Marks (B1) (Riverine)
Depth (inches):emarks;  **PROLOGY**  **Fetiand Hydrology Indicators: rimery indicators (any one indicator): Surface Water (A1)	Salt Crust (B11)	Secondary Indicators (2 or more required Water Marks (B1) (Riverine) Sedment Deposits (B2) (Riverine)
Depth (inches):emarks;  **DROLOGY**  **otiand Hydrology Indicators: rimery indicators (any one indicator):  Surface Water (A1)  High Water Table (A2)	Selt Crust (B11) Blotic Crust (B12)	Secondary Indicators (2 or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)
Depth (inches): emarks:  DROLOGY  fetiand Hydrology Indicators: imery Indicators (any one indicator): Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Selt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)
Depth (inches): emarks:  /DROLOGY  fetiand Hydrology Indicators: rimery indicators (env one indicator):  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)	Sait Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1)	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)
Depth (inches): emarks;  /DROLOGY  fetiand Hydrology Indicators: rimery indicators (env one indicator):  Surface Water (A1) High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)	Sait Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1) rine) Oxidized Rhizospheres along Living	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)  Roots (C3) Thin Muck Surface (C7)
Depth (inches): emarks;  /DROLOGY  retiand Hydrology Indicators: rimery Indicators (any one indicator): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Sait Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1) rine) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required  Water Marks (B1) (Riverine)  Sedment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3) Thin Muck Surface (C7)  Crayfish Burrows (C8)
Depth (inches): emarks;  /DROLOGY  retiand Hydrology Indicators: rimery indicators (env one indicator): _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) (Nonriverine) _ Sediment Deposits (B2) (Nonriverine) _ Surface Soil Cracks (B8)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suilide Odor (C1) rine) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So	Secondary Indicators (2 or more required  Water Marks (B1) (Riverine)  Sedment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3) Thin Muck Surface (C7)  Crayfish Burrows (C8)  Is (C6) Saturation Visible on Aerial Imagery
Depth (inches): emarks;  DROLOGY  retiand Hydrology Indicators: imary Indicators (any one indicator): Surface Water (A1) Liigh Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sudment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B8) Inundation Visible on Aerial Image	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suilide Odor (C1) rine) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So	Secondary Indicators (2 or more required  Water Marks (B1) (Riverine)  Sedment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3) Thin Muck Surface (C7)  Crayfish Burrows (C8)
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Depth (inches): emarks;  /DROLOGY  fetiand Hydrology Indicators: rimery indicators (any one indicator): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sudment Deposits (B2) (Nonriverine) Orift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Chidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So Iry (B7) Other (Explain in Remarks)	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)  Roots (C3) Thin Muck Surface (C7)  Crayfish Burrows (C8)  Is (C6) Saturation Visible on Aerial Imagery (C8)
Depth (inches): emarks;  PDROLOGY  retiand Hydrology Indicators: rimary Indicators (any one indicator): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sedment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B8) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Ield Observations: urface Water Present?  Yes	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1) Coddized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So Iry (B7) Other (Explain in Remarks)	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)  Roots (C3) Thin Muck Surface (C7)  Crayfish Burrows (C8)  Is (C6) Saturation Visible on Aerial Imagery (C8)
PROLOGY  fetiand Hydrology Indicators:  rimery indicators (any one indicator):  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Surface Soil Cracks (B8)  Inundation Visible on Aerial Image  Water-Stained Leaves (B9)  leid Observations:  urface Water Present?  Yes  Vater Table Present?	Salt Crust (B11)  Blotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres along Uving  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed So  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	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)  Roots (C3) Thin Muck Surface (C7)  Crayfish Burrows (C8)  Is (C6) Saturation Visible on Aerial Imagery (C8)
Depth (inches): emarks;  PDROLOGY  fetiand Hydrology Indicators: rimery Indicators (any one indicator): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Surface Soil Cracks (B2) (Nonriverine) Surface Soil Cracks (B8) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Ield Observations: urface Water Present?  //ater Table Present? Yes aturation Present? Yes aturation Present? Yes	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1) Chidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So iny (B7) Other (Explain in Remarks)  No Depth (Inches): No Depth (Inches):	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)  Roots (C3) Thin Muck Surface (C7)  Crayfish Burrows (C8)  Is (C6) Saturation Visible on Aerial Imagery (C8)  Shallow Aquitand (D3)  FAC-Neutral Test (D5)
Depth (inches):  Itemarks;  Itema	Salt Crust (B11)  Blotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Suifide Odor (C1)  Oxidized Rhizospheres along Uving  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed So  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	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)  Roots (C3) Thin Muck Surface (C7)  Crayfish Burrows (C8)  Is (C6) Saturation Visible on Aerial Imagery (C8)  Shallow Aquitand (D3)  FAC-Neutral Test (D5)
Porth (inches):  Itemarks;  Itemarks;  Itemarks;  Itemarks;  Itemarks;  Itemarks;  Itemarks (Br) (indicators:  Surface Water (A1)  Jiligh Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Surface Soil Cracks (B8)  Inundation Visible on Aerial Image  Water-Stained Leaves (B9)  Indication Visible on Aerial Image  Water-Stained Leaves (B9)  Indication Visible on Aerial Image  Water-Stained Leaves (B9)  Indication Present?  Ves  Surface Water Present?  Ves  Includes capillary 8inge)  Inscribe Recorded Data (stream gauge)	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1) Chidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So iny (B7) Other (Explain in Remarks)  No Depth (Inches): No Depth (Inches):	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)  Roots (C3) Thin Muck Surface (C7)  Crayfish Burrows (C8)  Is (C6) Saturation Visible on Aerial Imagery (C8)  Shallow Aquitand (D3)  FAC-Neutral Test (D5)
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Depth (inches):  emarks:  PDROLOGY  retiand Hydrology indicators: rimery indicators (any one indicator):  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Surface Soil Cracks (B2) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Image  Water-Stained Leaves (B9)  eld Observations:  Vater Table Present?  Ves  aturation Present?  Acter Table Present Present?  Acter Table Present Present Present Present Present Present Present Present Present	Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suifide Odor (C1) Chidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So iny (B7) Other (Explain in Remarks)  No Depth (Inches): No Depth (Inches):	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)  Roots (C3) Thin Muck Surface (C7)  Crayfish Burrows (C8)  Is (C6) Saturation Visible on Aerial Imagery (C8)  Shallow Aquitand (D3)  FAC-Neutral Test (D5)

# WETLANDS RATING FIELD DATA FORM BACKGROUND INFORMATION: Name of Rater: Ed Send Affiliation: Send wether Cos Date: 1/109 Name of wetland (if known): Wetland A - Forest Ridge Location: 1/4 S: \_\_\_\_\_ of 1/4 S: \_\_\_\_ SEC: \_\_\_\_ TWNSHP: \_\_\_\_ RNGE: \_\_\_\_ SOURCES OF INFORMATION: (Check all sources that apply) Site visit: USGS Topo Map: \_\_\_\_ NWI map: \_\_\_\_ Aerial Photo: \_\_\_\_ Soils survey: \_\_\_\_ Other: \_\_\_ Describe: \_\_\_\_\_\_ WHEN THE FIELD DATA FORM IS COMPLETE ENTER CATEGORY HERE: Circle answers: Q.1. High Quality Natural Heritage Wetland. Answer this question if you have adequate information or experience to do so. If not find someone with the expertise to answer the questions. Then, if the answer to questions 1a, 1b and 1c are all NO, contact the Natural Heritage program of DNR. la. Is there significant evidence of human-caused changes to topography or Yes: go to Q.3. hydrology of the wetland? Significant changes could include clearing, grading, No: go to 1b. filling, logging of the wetland or its immediate buffer, or culverts, ditches, dredging, diking or drainage of the wetland. Briefly describe the changes and your information source/s: /0 79=0 1b. Are there populations of non-native plants which are currently present and Yes: go to Q.3. appear to be invading native populations? Briefly describe any non-native plant No: go to 1c. populations and information source(s): 1c. Is there significant evidence of human-caused disturbance of the water quality Yes: go to Q.3. of the system? Degradation of water quality could be evidenced by culverts No: Possible entering the system, direct road/parking lot runoff, evidence of historic dumping of Category I wastes, oily sheens, extreme eutrophic conditions, livestock use or dead fish etc. Briefly describe:

Q.2. Regionally Rare Native Wetland Communities	
The Department of Ecology is developing a methodology for regionally rare native wetland communities. It is not yet available for use.	
Q.3. Irreplaceable Ecological Functions:	
Does the wetland:	No to both: go to Q.4.
- have at a least 1/2 acre of contiguous peat wetland;	Yes: go to 3a.
- <u>or</u> , have a forested class greater than 1 acre;	Yes: go to 3b.
Q.3a. Peat Wetlands.	
3a1. Does at least 1/2 acre of the contiguous peat wetland have < 25% areal cover of any combination of species from the list of invasive/exotic species on p.19, and have < 80% areal cover of Spirea douglasii?	Yes: Category I No: go to Q.4.
Q.3b. Mature forested wetland.	
3b1. Is the average age of dominant trees in the forested wetland > 80 years?	Yes: Category I No: go to 3b2.
3b2. Is the average age of dominant trees in the forested wetland 50-80 years, and is the structural diversity high as characterized by a multi-layer community of trees > 50' tall and trees 20'-49' tall and shrubs and herbaceous groundcover?	Yes: go to 3b3. No: go to Q.5.
3b3. Is > 50% (areal cover) of the dominant plants in one or more layers (canopy, young trees, shrubs, herbs) invasive/exotic plant species from the p.19 list?	Yes: go to Q.5. No: Category I
Q.4. Category IV wetlands	
4.1. Is the wetland: less than 1 acre and, hydrologically isolated and, comprised of one vegetated class that is dominated (> 80% areal cover) by one species from the list in guidance p.18 4.2. Is the wetland: less than two acres	Yes: Category IV No: go to 4.2
and, hydrologically isolated, with one vegetated class, and > 90% of areal cover is any combination of species from the list in guidance p.19	Yes: Category IV No: go to Q.S.

O.5. Significant habitat value. Answer all questions and enter da	ta requested.	Circle scores
	•	that qualify
5a. Total wetland area	acres	
	> 20.00	Yes=6
Estimate area, select from choices in the near-right column, and so		Yes=5
in the far column:	5 - 9.99 1 - <b>4.</b> 99	Yes=4 Yes=3
Enter acreage of wetland here: 0.0 acres, and source: 50,000	0.1 - 0.99	Yes=2
Enter acreage of wetland hereacres, and source	-   0.1 - 0.99 <0.1	Yes=1
5b. Wetland classes: Circle the wetland classes below that quali		100-1
3b. Wenand Classes. Circle the Wenand Classes below that quant	.,,.	
Open Water: if the area of open water is > 1/2 acre or > 10% of the area. Source:	ne total wetland	
Aquatic Beds: if the area of aquatic beds > 10% of the open water	area <u>or</u> > 1/2 acre.	
Emergent: if the area of emergent class is > 1/2 acre or > 10% of the area.	he total wetland	
Scrub-Shrub: if the area of scrub-shrub class is > 1/2 acre or > 10% area.	6 of the total wetland	
Forested: if area of forested class is > 1/2 acre or > 10% of the tot	al wetland area.	
Add the number of wetland classes, above, that qualify, and	# of classes	
then score according to the columns at right.	1	Yes =1
	2	Yes =3
e.g. If there are 4 classes (aquatic beds, open water, emergent &	3	Yes =5
scrub-shrub), you would circle 8 points in the far right column.	4	Yes =8 Yes =11
	3	165 =11
5c. Plant species diversity.	# of	
2 I I I I I I I I I I I I I I I I I I I	Class species	
For all wetland classes (at right) that qualify in 5b. above, count	Aquatic Bed 1-2	Yes=1
the number of different plant species you can find. You do not	" " 3	Yes=2
have to name them.	" " >3	Yes=3
Communication and form with the	Emergent 1-2	Yes=1
Score in column at far right:	<u>Emergent</u> 1-2	Yes=2
e.g. If a wetland has an aquatic bed class with 3 species, an	" >4	Yes=3
emergent class with 4 species and a scrub-shrub class with 2	- 1	- 05-0
species you would circle 2, 2, and 1 in the far column.	Scrub-Shrub 1-2	Yes=1
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	" 3-4	Yes=2
	н >4	Yes=3
		,, ,
		Yes=1
	" 2 " > 2	Yes=2 Yes=3
	<i>&gt; L</i>	162=0

5d. Structural diversity.  If the wetland has a forested class, add 1 point for each of the following:  -trees > 50' tall  -trees 20'- 49' tall  -shrubs.  -herbaceous ground cover.	
5e. Decide from the diagrams below whether interspersion between wetland classes is high, moderate, low or none?  low low high	High=3 Moderate=2 Low=1 None=0
Answer questions below, circle features that apply, and score to right:  Is there evidence of current use by beavers?  Is a heron rookery located within 300'?  Are raptor nest/s located within 300'?  Are there at least 3 standing dead trees (snags) per acre?  Are any of these standing dead trees (snags) > 10" in diameter?  Are there any other perches (wires, poles or posts)?	Yes=3 Yes=2 Yes=1 Yes=1 Yes=1 Yes=1
Are there at least 3 downed logs per acre?	Yes=6 Yes=4 Yes=0

5h. <u>Buffers</u> .		
STEP 1 Estimate (to the nearest 5%) the % of each buffer or land-use type (below) that adjoins the wetland boundary.  Then multiply the %/s by the factor(s) below and enter result in column to right:	STEP 2  Multiply result(s) of step 1:   by 1, if buffer width is 25-50';   by 2, if buffer width is 50-100';   by 3, if buffer width is >100'.  Enter results below and add subscore:	
roads, buildings or parking lots: %x0 = lawn, grazed pasture, vineyards or	0	
annual crops: %x1= ungrazed grassland or	X =	
orchards: %x 2 =	x =	
open water or native grasslands: % x 3 =	x =	
forest or shrub: % 10 4 =	400 x 3 = 1200	
	Add Buffer total = 1200	
STEP 3. Score points according to table at rig	tht:  Buffer total  900-1200  600-899  300-599  100-299	Yes=4 Yes=3 Yes=2 Yes=1
5i. Connection to other habitat areas:		
- Is there a riparian corridor to other wetlan 100' wide with good forest or shrub cover t	ds within 0.25 of a mile, or a corridor > o any other habitat area?	Yes =6
- Is there a narrow corridor < 100' wide with with low cover to any other habitat area? .		Yes=4
- Is there a narrow corridor < 100' wide with a significant habitat area within 0.25 mile	low cover <u>or</u> but no corridor?	Yes=1
- Is the wetland and buffer completely isola cultivated agricultural land?	ted by development and or	Yes=0
NOW: Add the scores circled (for Q.5a - Q. Is the <u>Total</u> greater than or equal to	o 22 points Y	otal = 15 es: Category II lo. Category III

WETLANDS RATING FIELD DATA FORM		
Name of Rater: Affiliation: Semble world. Da  Name of wetland (if known): Wetland. \( \textit{\textit{T}} - \textit{Forest} \)  Government Jurisdiction of wetland: R, \( \textit{T} + \textit{T} \)  Location: 1/4 S: of 1/4 S: SEC: TWNSHP: RNGH  SOURCES OF INFORMATION: (Check all sources that apply)		11/09
Site visit: USGS Topo Map: NWI map: Aerial Photo: Soils  Other: Describe:	1	
WHEN THE FIELD DATA FORM IS COMPLETE ENTER CATEGORY HERE:  Q.1. High Quality Natural Heritage Wetland.	Circle answers:	
Answer this question if you have adequate information or experience to do so. If not find someone with the expertise to answer the questions. Then, if the answer to questions 1a, 1b and 1c are all NO, contact the Natural Heritage program of DNR.  1a. Is there significant evidence of human-caused changes to topography or hydrology of the wetland? Significant changes could include clearing, grading, filling, logging of the wetland or its immediate buffer, or culverts, ditches, dredging, diking or drainage of the wetland. Briefly describe the changes and your information source/s:	Yes: go to Q.3. No: go to 1b.	
1b. Are there populations of non-native plants which are currently present and appear to be invading native populations? Briefly describe any non-native plant populations and information source(s):	Yes: go to Q.3. No: go to 1c.	
1c. Is there significant evidence of human-caused disturbance of the water quality of the system? Degradation of water quality could be evidenced by culverts entering the system, direct road/parking lot runoff, evidence of historic dumping of wastes, oily sheens, extreme eutrophic conditions, livestock use or dead fish etc.  Briefly describe:	Yes: go to Q.3. No: <u>Possible</u> <u>Category I</u>	
		1

Q.2. Regionally Rare Native Wetland Communities	
The Department of Ecology is developing a methodology for regionally rare native wetland communities. It is not yet available for use.	
Q.3. Irreplaceable Ecological Functions:	
Does the wetland:	No to both: go to Q.4.
- have at a least 1/2 acre of contiguous peat wetland;	Yes: go to 3a.
- or, have a forested class greater than 1 acre;	Yes: go to 3b.
Q.3a. Peat Wetlands.	
3a1. Does at least 1/2 acre of the contiguous peat wetland have < 25% areal cover of any combination of species from the list of invasive/exotic species on p.19, and have < 80% areal cover of Spirea douglasii?	Yes: Category I No: go to Q.4.
Q.3b. Mature forested wetland.	
3b1. Is the average age of dominant trees in the forested wetland > 80 years?	Yes: Category I No: go to 3b2.
3b2. Is the average age of dominant trees in the forested wetland 50-80 years, and is the structural diversity high as characterized by a multi-layer community of trees > 50' tall and trees 20'-49' tall and shrubs and herbaceous groundcover?'	Yes: go to 3b3. No: go to Q.5.
3b3. Is > 50% (areal cover) of the dominant plants in one or more layers (canopy, young trees, shrubs, herbs) invasive/exotic plant species from the p.19 list?	Yes: go to Q.5. No: Category I
Q4. Category IV wetlands	
4.1. Is the wetland: less than 1 acre and, hydrologically isolated and, comprised of one vegetated class that is dominated (> 80% areal cover) by one species from the list in guidance p.18 4.2. Is the wetland: less than two acres	Yes: Category IV
and, hydrologically isolated, with one vegetated class, and > 90% of areal cover is any combination of species from the list in guidance p.19	Yes: Category IV No: go to Q.5.

		Circle scores
O.5. Significant habitat value. Answer all questions and enter data requested.		
O.S. Digital indigital value		that qualify
5a. Total wetland area acres		
	> 20.00	Yes=6
Estimate area, select from choices in the near-right column, and sco	ore 10-19.99	Yes=5
	5 - 9.99	Yes=4
in the far column:		
Enter acreage of wetland here:acres, and source:	1-4.99	Yes=3
Enter acreage of wetland here:acres, and source:	0.1 - 0.99	Yes=2
	<0.1	Yes=1
5b. Wetland classes: Circle the wetland classes below that qualif	ry:	
Open Water: if the area of open water is > 1/2 acre or > 10% of th	e total wetland	
	ic tour wearing	1
area. Source:		
Aquatic Beds: if the area of aquatic beds > 10% of the open water	area or > 1/2 acre.	1
White beres it his man as admine name, and as an as a second	•	
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
Emergent: if the area of emergent class is > 1/2 acre or > 10% of the	ne total wetland	
area.		
arca.		
1000	af the total method	
Scrub-Shrub: If the area of scrub-shrub class is > 1/2 acre or > 10%	or the total wetland	
area.		
with the second		
- 10% of the tet	al motland area	
Forested: if area of forested class is > 1/2 acre or > 10% of the total	at wettasic area.	
		1
Add the number of wetland classes, above, that qualify, and	# of classes	
then score according to the columns at right.	1	Yes =1
then score according to the columns at right.	2	Yes =3
	2	:50-
e.g. If there are 4 classes (aquatic beds, open water, emergent &	3	Yes =5
scrub-shrub), you would circle 8 points in the far right column.	4	Yes =8
SCIUD-SIII ub), you would circle o points in the instruction	5	Yes =11
	2	169-11
5c. Plant species diversity.	# of	
	Class species	
m 11 (1) I decree (as might) that qualify in 5h above count	Aquatic Bed 1-2	Yes=1
For all wetland classes (at right) that qualify in 5b. above, count		
the number of different plant species you can find. You do not	" " 3,	
have to name them.	" " >3	Yes=3
la	Emergent 1-2	Yes=1
Score in column at far right:		
	" 3-4	Yes=2
e.g. If a wetland has an aquatic bed class with 3 species, an	" >4	Yes=3
emergent class with 4 species and a scrub-shrub class with 2		
emergent class with 4 species and a scrub-situde class with 2	Scrub-Shrub 1-2	Yes=1
species you would circle 2, 2, and 1 in the far column.		
	" 3-4	Yes=2
· k	" >4	Yes=3
	l	V . 1
		Yes=1
· ·		II V-n-2
l l	2	Yes=2
	" 2 " > 2	

5d. Structural diversity.  If the wetland has a forested class, add 1 point for each of the following:  -trees > 50' tall -trees > 20' 49' tall -shrubsherbaceous ground cover.  Yes=1  -herbaceous ground cover.  Yes=1  5e. Decide from the diagrams below whether interspersion between wetland classes is high, moderate, low or none?  High=3  Moderate=2  Low=1  None=0  None=0  Fig. Habitat features.  Answer questions below, circle features that apply, and score to right:  Is there evidence of current use by beavers?  Is a heron rookery located within 300?  Are raptor nest/s located within 300?  Are there at least 3 standing dead trees (snags) per acre?.  Are there any other perches (wires, poles or posts)?  Yes=1	If the wetland has a forested class, add 1 point for each of the following:  -trees > 50' tall -trees	t for each of the following:
If the wetland has a forested class, add 1 point for each of the following:  -trees > 50' tall -trees 20' - 49' tall -shrubs -herbaceous ground cover.  Se. Decide from the diagrams below whether interspersion between wetland classes is high, moderate, low or none?  Fig. 1 between wetland classes is high, moderate, low or none?  High=3 doderate=2 Low=1 None=0  Tone=0  Tone=0  Tone=0  Tone=0  Tes=1 Yes=1 Yes=1 Yes=1 Yes=1 Yes=1 Yes=1 Yes=3 Yes=3 Yes=2 Yes=1 Ye	If the wetland has a forested class, add 1 point for each of the following:  -trees > 50' tall -trees	t for each of the following:
-trees 20'- 49' tall	trees 20'- 49' tail	twoon > E/V tol1
-shrubs	-shrubs	accor of the second
-herbaceous ground cover	-herbaceous ground cover	-ticco zo zy tezz i i i i i i i i i i i i i i i i i i
5e. Decide from the diagrams below whether interspersion between wetland classes is high, moderate, low or none?  High=3 Moderate=2 Low=1 None=0  Fig. Habitat features.  Answer questions below, circle features that apply, and score to right:  Is there evidence of current use by beavers?  Are raptor nest/s located within 300?  Are there at least 3 standing dead trees (snags) per acre?  Are any of these standing dead trees (snags) > 10" in diameter?  Yes=1  Are there any other perches (wires, poles or posts)?	5e. Decide from the diagrams below whether interspersion between wetland classes is high, moderate, low or none?  High=3 Moderate=Low=1 None=1	-shrubs Yes=1
moderate low or none?  High=3 Moderate=2 Low=1 None=0  5f. Habitat features.  Answer questions below, circle features that apply, and score to right:  Is there evidence of current use by beavers?  Is a heron rookery located within 300?  Are raptor nest/s located within 300?  Are there at least 3 standing dead trees (snags) per acre?  Are there any of these standing dead trees (snags) > 10" in diameter?  Are there any other perches (wires, poles or posts)?  High=3 Moderate=2 Low=1 None=0  Yes=3 Yes=3 Yes=1 Yes=1 Yes=1 Yes=1 Yes=1	Is there evidence of current use by beavers?  Are there at least 3 downed logs per acre?  Are there at least 3 downed logs per acre?  Are there at least 3 downed logs per acre?.  Are there at least 3 downed logs per acre?.  Are there at least 3 downed logs per acre?.  Yes=1  Yes=1  Yes=1  Yes=1  Yes=1  Yes=1  Yes=1  Yes=1  Yes=1	-herbaceous ground cover Yes=1
is high, moderate, low or none?  High=3 Moderate=2 Low=1 None=0  5f. Habitat features.  Answer questions below, circle features that apply, and score to right:  Is there evidence of current use by beavers?  Is a heron rookery located within 300?  Are raptor nest/s located within 300??  Are there at least 3 standing dead trees (snags) per acre?  Are there any of these standing dead trees (snags) > 10" in diameter?  Are there any other perches (wires, poles or posts)?  High=3 Moderate=2 Low=1 None=0  Yes=3 Yes=3 Yes=1 Are there at least 3 standing dead trees (snags) per acre?  Yes=1 Yes=1 Yes=1	Is there evidence of current use by beavers?  Are there at least 3 downed logs per acre?.  Are there at least 3 downed logs per acre?.  Are there at least 3 downed logs per acre?.  Are there at least 3 downed logs per acre?.  Is high  High=3  Moderate= Low=1  None=0  Yes=3  Yes=3  Yes=3  Yes=2  Yes=1  Are there at least 3 standing dead trees (snags) per acre?.  Yes=1  Yes=1  Yes=1  Yes=1  Yes=1	
moderate  Independent of the set	moderate  low low High=3 Moderate= Low=1 None=0  5f. Habitat features.  Answer questions below, circle features that apply, and score to right:  Is there evidence of current use by beavers? Are raptor noskery located within 300? Are raptor nest/s located within 300? Are there at least 3 standing dead trees (snags) per acre? Are any of these standing dead trees (snags) > 10° in diameter? Are there any other perches (wires, poles or posts)?  Are there at least 3 downed logs per acre?  Yes=1 Are there at least 3 downed logs per acre?  Yes=1  Yes=1	interspersion between wetland classes
moderate  moderate  moderate  high  Sf. Habitat features.  Answer questions below, circle features that apply, and score to right:  Is there evidence of current use by beavers?  Is a heron rookery located within 300?  Are raptor nest/s located within 300?  Are there at least 3 standing dead trees (snags) per acre?  Are any of these standing dead trees (snags) > 10" in diameter?  Yes=1  Yes=1  Yes=1  Yes=1  Yes=1  Yes=1	moderate  moderate  high  Sf. Habitat features.  Answer questions below, circle features that apply, and score to right:  Is there evidence of current use by beavers?  Is a heron rookery located within 300?  Are raptor nest/s located within 300?  Are there at least 3 standing dead trees (snags) per acre?  Are there at least 3 standing dead trees (snags) > 10" in diameter?  Are there any other perches (wires, poles or posts)?  Are there at least 3 downed logs per acre?  Yes=1  Yes=1  Yes=1  Yes=1	1
moderate  moderate  moderate  high  form=0  Iow=1  None=0  Iow=1  Iow=1  None=0  Iow=1  Io	moderate  moderate  high  5f. Habitat features.  Answer questions below, circle features that apply, and score to right:  Is there evidence of current use by beavers?  Is a heron rookery located within 300?  Are raptor nest/s located within 300?  Are there at least 3 standing dead trees (snags) per acre?  Are any of these standing dead trees (snags) > 10" in diameter?  Are there any other perches (wires, poles or posts)?  Are there at least 3 downed logs per acre?  Yes=1  Yes=1  Yes=1  Yes=1	High=3
Answer questions below, circle features that apply, and score to right:  Is there evidence of current use by beavers?  Is a heron rookery located within 300?  Are raptor nest/s located within 300?  Are there at least 3 standing dead trees (snags) per acre?  Are any of these standing dead trees (snags) > 10" in diameter?  Are there any other perches (wires, poles or posts)?  Yes=1  Yes=1  Yes=1  Yes=1	Answer questions below, circle features that apply, and score to right:  Is there evidence of current use by beavers?  Is a heron rookery located within 300'?  Are raptor nest/s located within 300'?  Are there at least 3 standing dead trees (snags) per acre?  Are any of these standing dead trees (snags) > 10" in diameter?  Are there any other perches (wires, poles or posts)?  Are there at least 3 downed logs per acre?  Yes=1  Yes=1  Yes=1	Low=1 None=0
Is there evidence of current use by beavers?  Is a heron rookery located within 300?  Are raptor nest/s located within 300??  Are there at least 3 standing dead trees (snags) per acre?  Are any of these standing dead trees (snags) > 10" in diameter?  Are there any other perches (wires, poles or posts)?  Yes=3  Yes=2  Yes=1  Yes=1  Yes=1  Yes=1	Is there evidence of current use by beavers?  Is a heron rookery located within 300'?  Are raptor nest/s located within 300'?  Are there at least 3 standing dead trees (snags) per acre?  Are any of these standing dead trees (snags) > 10" in diameter?  Are there any other perches (wires, poles or posts)?  Are there at least 3 downed logs per acre?  Yes=1  Yes=1  Yes=1  Yes=1	
Are there at least 3 standing dead trees (snags) per acre?	Are there at least 3 standing dead trees (snags) per acre?	1
Are there at least 3 standing dead trees (snags) per acre?	Are there at least 3 standing dead trees (snags) per acre?	~°0 Yes=3
Are there at least 3 standing dead trees (snags) per acre?	Are there at least 3 standing dead trees (snags) per acre?	~o Yes=2
Are there at least 3 standing dead trees (snags) per acre?	Are there at least 3 standing dead trees (snags) per acre?	Yes=1
Are there any other perches (wires, poles or posts)?	Are there at least 3 downed logs per acre?	•
Are there any other perches (wires, poles or posts)?	Are there at least 3 downed logs per acre?	) per acre? Yes=1
	Are there at least 3 downed logs per acre? Yes=1	10" in diameter? To Yes=1
	Are there at least 3 downed logs per acre? Yes=1	YAC=1
Are there at least 3 downed logs per acre? Yes=1		0915/1
		Yes=1
5g. Connection to streams. (Score one answer only.)	5g. Connection to streams. (Score one answer only.)	only.)
Is the wetland connected at any time of the year via surface water:	Is the wetland connected at any time of the year via surface water:	
to a perennial stream or a seasonal stream with fish; Yes=6	to a perennial stream or a seasonal stream with fish; Yes=6	vear via surface water:
or, to a seasonal stream without fish; Yes=4	or, to a seasonal stream without fish; Yes=4	rear via surface water: n or a seasonal stream with fish; Yes=6
or, is not connected to any stream? Yes=0	or, is not connected to any stream? Yes=0	rear via surface water:  n or a seasonal stream with fish;  Yes=6  warn without fish;  Yes=4
		rear via surface water:  n or a seasonal stream with fish;  Yes=6  warn without fish;  Yes=4

-1 *1 05			
5h. Buffers.			
STEP 1 Estimate (to the nearest 59 buffer or land-use type (be adjoins the wetland bound then multiply the %/s by the below and enter result in cright:	low) that dary. the factor(s)	STEP 2 Multiply result(s) of step 1: by 1, if buffer width is 25-50'; by 2, if buffer width is 50-100'; by 3, if buffer width is >100'.  Enter results below and add subscore:	
roads, buildings or parking lots:	%x0=	0	
lawn, grazed pasture, vinc	eyards or % x 1 =	x _ =	
ungrazed grassland or orchards:	%x2=	x =	
open water or native grasslands:	%x3=	x _ =	
forest or shrub:		400 x 3 = 1200	
		Add Buffer total = 1 2 0 0	
STEP 3. Score points accord	ing to table at rig	tht:  Buffer total  900-1200  600-899  300-599  100-299	Yes=4 Yes=3 Yes=2 Yes=1
5i. Connection to other ha	bitat areas:		
- Is there a riparian corridor 100' wide with good forest	r to other wetlan or shrub cover t	nds within 0.25 of a mile, or a corridor > to any other habitat area?	Yes =6
- Is there a narrow corridor with low cover to any other	< 100' wide with er habitat area? .	good cover <u>or</u> a wide corridor > 100' wide	Yes=4
- Is there a narrow corridor a significant habitat area	< 100' wide with within 0.25 mile	low cover <u>or</u> but no corridor?	Yes=1
- Is the wetland and buffer cultivated agricultural lar	completely isola	ted by development and or	Yes=0
NOW: Add the scores circles Is the Total great	led (for Q.5a - Q. er than or equal t	to 22 points	otal = /5 les: Category II lo: Category III