

Sewall Wetland Consulting, Inc.

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

March 30, 2022

Tim Murphy James G. Murphy Company 18226 68th Avenue NE Kenmore, Washington 98028

RE: Critical Area Report – Parcel #30050400200500 City of Marysville, Washington SWC Job #22-118

Dear Tim,

This report describes our observations of any jurisdictional wetlands, streams and buffers on c Parcel #30050400200500, located at 3803 36th Street NE, in the City of Marysville, Washington.



Above: Vicinity Map of the site.

The site is an irregular shaped parcel 5.5 acres in size and located within Section 33, Township 31 North, Range 5 East of the W.M.

The site contains a single commercial structure n the southeast corner of the site with associated paved parking surfaces. The remainder of the site generally cleared mowed pasture area. Several Lombardy poplars and blackberry patches are located near the northwest side of the site where it appears a home was located in the past. The site has the appearance of being graded or disturbed in the past.



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

METHODOLOGY

Ed Sewall of Sewall Wetland Consulting, Inc. inspected the site on March 9, 2022.

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

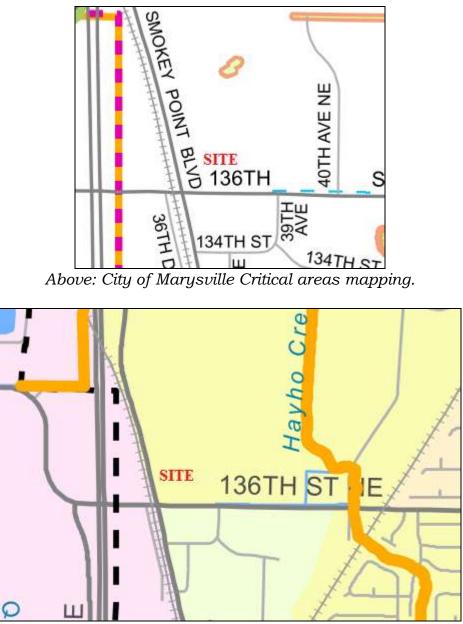
OBSERVATIONS

Existing Site Documentation.

Prior to visiting the site, a review of several natural resource inventory maps was conducted. Resources reviewed included the City of Marysville mapping website, National Wetland Inventory Map and the NRCS Soil Survey online mapping.

City of Marysville Maps

The City of Marysville has both a Critical Areas and Stream Classification website that would pertain to the site. No wetlands or streams are depicted on or near the site.



Above: City of Marysville Stream Classification mapping.

National Wetlands Inventory (NWI)

The NWI map depicts no wetlands on the site. The closest mapped wetland is shown over the existing buildings and parking areas north of the site several hundred feet..



Above: NWI map of the area of the site

Soil Survey

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



Above: NRCS soil map of the site.

Field observations

As previously described, outside the existing structure and paved parking area on the southeast, the remainder is a mowed pasture area. Vegetation is primarily bent grass, scotch broom, and patches of cut-leaf blackberry. A single patch of hardhack was noted in a circular area north of the existing structure.

Given the Custer and Norma soil series on the site, a series of soil pits were excavated in areas where hydrophytic vegetation was noted (mowed hardhack). Based upon the record amount of rainfall in the winter and spring of this year, the sites soils should display some evidence of wetland hydrology if it is ever present.

Soil pits excavated throughout the site displayed sandy loam soils with matrix chromas of 2-4 in the B-horizon with no hydric indicators. Soils were also found to be dry or only moist in the upper 12" of the soil; profile.

Conclusion

There are no areas that meet wetland criteria on the site. There are no wetlands or streams within 300' of the site, and as a result, no buffer which would encroach onto 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 <u>esewall@sewallwc.com</u>.

Sincerely, Sewall Wetland Consulting, Inc.

Sent

Ed Sewall Senior Wetlands Ecologist PWS #212

Attached: Data sheets

REFERENCES

City of Marysville Municipal Code and Maps

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

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

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

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

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

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

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

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



Above: Data point locations

Project/Site: J G Mupphy	City/County: Muny svil	k Sampling Date: 3-9-22
Applicant/Owner:	State	e: Sampling Point: D P ₩
Investigator(s):	Section, Township, Range:	,
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, nor	e): Slope (%):
Subregion (LRR): Lat:	Long:	Datum;
Soil Map Unit Name:		NWI classification:
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes No (If no	o, explain in Remarks.)
Are Vegetation, Soil, or Hydrology signification	antly disturbed? Are "Normal Circ	cumstances" present? Yes No
Are Vegetation, Soil, or Hydrology natural	y problematic? (If needed, expla	in any answers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	is the Sampled Area within a Wetland?	Yes No
Remarks: abuve	Normal Main F	, l.	

VEGETATION – Use scientific names of plants.

	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1)		Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
23			Total Number of Dominant Species Across All Strata: (B)
4		= Total Cover	Percent of Dominant Species 50 (A/B)
1			Prevalence Index worksheet:
2			Total % Cover of:Multiply by:
3			OBL species x 1 =
4			FACW species x 2 =
5			FAC species x 3 =
		= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)		En.	UPL species x 5 =
1. Azests Sp 2. Cyticus Scymers	$\frac{40}{30}$	$\frac{1}{N_{I}}$	Column Totals: (A) (B)
			Prevalence Index = B/A =
4,			Hydrophytic Vegetation Indicators:
5			Dominance Test is >50%
6			Prevalence Index is ≤3.0 ¹
7.			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8			Wetland Non-Vascular Plants ¹
9			Problematic Hydrophytic Vegetation ¹ (Explain)
10			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		= Total Cover	present, uness usurbed of problematic.
Woody Vine Stratum (Plot size:)			
1			Hydrophytic
2			Vegetation Present? Yes No
% Bare Ground in Herb Stratum		= Total Cover	
Remarks:		<u>سې د يې و وولو او د د د د د د د و د و و و و و و و و و</u>	A

Sampling Point: _______

Profile Description: (Describe to the d	lepth needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	<u>Color (moist)</u> <u>%</u> <u>Type</u> ¹ <u>Loc²</u>	Texture Remarks
12 104n 312		
16 7.54 4/2		Say los
and dealer the second	ann unarannannannannannannannannannannanna medirintera enantee enanterationaethann salaannannallasten.	

	aller and an end of the second second second second and a second second second second second second second second	
an a		
¹ Type: C=Concentration, D=Depletion, F	M=Reduced Matrix, CS=Covered or Coated Sand Gr	ains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to	all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Wetland Hydrology Indicators:	ired; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requ		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requination of the second s	Water-Stained Leaves (B9) (except MLR	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one requination of the requ	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requination of the requ	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Sait Crust (B11) Aquatic Invertebrates (B13)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requination (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requination (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requination of the requ	 Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) 	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3)) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Sait Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3)) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requinance) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations:	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks) e (B8)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requination of the requination of t	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requinance) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations:	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks) e (B8)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requination of the requination of t	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks) e (B8) No Depth (inches): No Depth (inches):	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requinance) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) (B7)O Other (Explain in Remarks) e (B8) NoDepth (inches): No Depth (inches): No No Depth (inches): No	AWater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3)Geomorphic Position (D2) Shallow Aquitard (D3))FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requinance) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) (B7) Other (Explain in Remarks) e (B8) No Depth (inches): No Depth (inches):	AWater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3)Geomorphic Position (D2) Shallow Aquitard (D3))FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requination of the requination of t	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) (B7)O Other (Explain in Remarks) e (B8) NoDepth (inches): No Depth (inches): No No Depth (inches): No	AWater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3)Geomorphic Position (D2) Shallow Aquitard (D3))FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requinance) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) (B7)O Other (Explain in Remarks) e (B8) NoDepth (inches): No Depth (inches): No No Depth (inches): No	AWater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3)Geomorphic Position (D2) Shallow Aquitard (D3))FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requination of the requination of t	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) (B7)O Other (Explain in Remarks) e (B8) NoDepth (inches): No Depth (inches): No No Depth (inches): No	AWater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3)Geomorphic Position (D2) Shallow Aquitard (D3))FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requination of the requination of t	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) (B7)O Other (Explain in Remarks) e (B8) NoDepth (inches): No Depth (inches): No No Depth (inches): No	AWater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3)Geomorphic Position (D2) Shallow Aquitard (D3))FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requination of the requination of t	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) (B7)O Other (Explain in Remarks) e (B8) NoDepth (inches): No Depth (inches): No No Depth (inches): No	AWater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3)Geomorphic Position (D2) Shallow Aquitard (D3))Shallow Aquitard (D3))SALOW Aquitard (D3))SALOW Aquitard (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requination of the requination of t	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) (B7)O Other (Explain in Remarks) e (B8) NoDepth (inches): No Depth (inches): No No Depth (inches): No	AWater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3)Geomorphic Position (D2) Shallow Aquitard (D3))Shallow Aquitard (D3))SALOW Aquitard (D3))SALOW Aquitard (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requination of the requination of t	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Rool Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Stunted or Stressed Plants (D1) (LRR A) (B7)O Other (Explain in Remarks) e (B8) NoDepth (inches): No Depth (inches): No No Depth (inches): No	AWater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3)Geomorphic Position (D2) Shallow Aquitard (D3))Shallow Aquitard (D3))SALOW Aquitard (D3))SALOW Aquitard (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Jo Mu.	City/County:_	Mongsville	Sampling Date: <u>3-9-22</u> Sampling Point: <u>DiP#2</u>
Applicant/Owner:		State:	Sampling Point:
Investigator(s):	Section, Towr	ship, Range:	
Landform (hillslope, terrace, etc.):	Local relief (c	oncave, convex, none):	Slope (%):
Subregion (LRR):	Lat:	Long:	Datum:
Soil Map Unit Name:		NWI classifi	cation:
Are climatic / hydrologic conditions on the sit	e typical for this time of year? Yes	No (If no, explain in f	Remarks.)
Are Vegetation, Soil, or Hydro	ology significantly disturbed?	Are "Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydro	ology naturally problematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS - Attac	h site map showing sampling	point locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Y	'es is the i	Sampled Area	

Hydric Soil Present? Wetland Hydrology Present?	Yes No is the Sampled Area within a Wetland?	Yes No
Remarks: above	Normal rounfuld	

VEGETATION – Use scientific names of plants.

The Other Distance	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species? Status	Number of Dominant Species
1.			That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3.			Species Across All Strata:(B)
4.			
		= Total Cover	Percent of Dominant Species 1 CU That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)		~	
1. Spinen douglusid	80	FAcn	Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3			OBL species x1 =
4			FACW species x 2 =
5			FAC species x 3 =
		= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)			UPL species x 5 =
1.			Column Totals: (A) (B)
2	-		
3	-		Prevalence index = B/A =
4			Hydrophytic Vegetation Indicators:
5			Dominance Test is >50%
6,			Prevalence Index is ≤3.0 ¹
7			Morphological Adaptations ¹ (Provide supporting
8			data in Remarks or on a separate sheet)
9	**		Wetland Non-Vascular Plants ¹
10			Problematic Hydrophytic Vegetation' (Explain)
11.			¹ Indicators of hydric soil and wetland hydrology must
		Total Cause	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		= Total Cover	
1			Hydrophytic
2			Vegetation Present? Yes <u>No</u>
		= Total Cover	Present? Yes No
% Bare Ground in Herb Stratum			
Remarks:	****		

Depth	Matrix			Redox Featu	ires					
	Color (moist)	%	Color	(moist) %		Loc ² Te	xture		Remarks	
12 /	'UM21	Z						,,		
16 7	7.542 -	2 5/-				54	A h			
		->/7	101	*****						
								······		
								the balance, in going in the		
	ad managang kang sa ana managan sa ina da kata ta Managang kang sa daga ng sa da kata sa ta mang sa da ka		··· ···········							
				Matrix, CS=Cove	and the state of the second state of the secon			tion: PL=Po		
Histosol (A1)	nooren (repp.		-	y Redox (S5)		,			nauc nyura	
Histic Epipedo	nn (A2)			bed Matrix (S6)				Muck (A10)	-1 (TEA)	
Black Histic (A	• •			vy Mucky Mineral ((F1) (arcent #			Parent Materi (Explain in F		
Hydrogen Sul				vy Gleyed Matrix (ынн I) — ,		(CYNSIN III)	VOITIMIKS)	
_ Depleted Belo		C8 (A11)		ny Gleyeu Mannx (sted Matrix (F3)	, mj					
Thick Dark Su				x Dark Surface (F	6)	\$	Indicator	s of hydrophy	tic vacatatio	n and
Sandy Mucky	• •			eted Dark Surface	•			d hydrology n		
Sandy Gleyed				x Depressions (Fi	• •			disturbed or	•	
strictive Layer						T			proorentano.	
Type:										
Depth (inches):						Hyd	ric Soil P	resent? Y	'es	No
Depth (inches): amerks: DROLOGY						Hyd	ric Soil P	resent? Y	' eə	No
Depth (inches): emarks: DROLOGY etland Hydrolog	gy indicator		red check at	i thei appiv)		Hyd		***********************		
Depth (inches): marks: DROLOGY etland Hydrolog mary Indicators	gy indicator (minimum of				avas (80) (av		Second	ary Indicator	s (2 or more	required)
Depth (inches): amarks: DROLOGY etland Hydrolog imary Indicators _ Surface Water	gy indicators (minimum of r (A1)			Water-Stained Lea			Second	ary Indicator ter-Stained L	s (2 or more	required)
Depth (inches): marks: DROLOGY atland Hydrolog mary Indicators Surface Water High Water Ta	gy indicators (minimum of r (A1) sible (A2)			Water-Stained Lei 1, 2, 4A, and 4			Second	ary Indicator ter-Stained L 4A, and 4B)	s (2 or more eaves (B9) (required)
Depth (inches): amarks: DROLOGY etland Hydrolog imary Indicatora Surface Water High Water Ta Saturation (A3	gy Indicatori (minimum of r (A1) able (A2) 3)		\ {	Water-Stained Lev 1, 2, 4A, and 4 Salt Crust (B11)	18)		Second Wa Dra	iary Indicator ter-Stained L 4A, and 4B) binage Patter	<u>s (2 or more</u> .eaves (B9) (ns (B10)	<u>required)</u> (MLRA 1, 2,
Depth (inches): amarks: DROLOGY etland Hydrolog imary Indicators _ Surface Water _ High Water Ta _ Saturation (A3 _ Water Marks (gy Indicatori (minimum of r (A1) able (A2) 3) (B1)			Water-Stained Lea 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra	B) ites (B13)		Second Wa Dra Dry	iary Indicator ter-Stained L 4A, and 4B) hinage Patter -Season Wa	s (2 or more eaves (B9) (ns (B10) ter Table (C2	<u>required)</u> (MLRA 1, 2, 2)
Depth (inches): emarks: DROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	gy Indicators (minimum of r (A1) able (A2) 3) (B1) posits (B2)			Water-Stained Lex 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	18) Illes (B13) Odor (C1)	ept MLRA	Second Wa Dra Dry Sat	ary Indicator ter-Stained L 4A, and 4B) hinage Patter -Season War uration Visibi	s (2 or more eaves (B9) (ns (B10) ter Table (C2 le on Aerial I	<u>required)</u> (MLRA 1, 2, 2)
Depth (inches): emarks: DROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits	gy Indicaton (minimum of r (A1) able (A2) 3) (B1) posits (B2) (B3)			Water-Stained Lea 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl	ites (B13) Odor (C1) heres along Lin	ept MLRA	Second Wa Dra Dra Sat	ary Indicator ter-Stained L 4A, and 4B) inage Patten Season Wai uration Visibi omorphic Pos	s (2 or more eaves (B9) (ns (B10) ter Table (C2 le on Aerial I sition (D2)	<u>required)</u> (MLRA 1, 2, 2)
Depth (inches): emarks: DROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C	gy Indicaton (minimum of r (A1) able (A2) 3) (B1) posits (B2) (B3) crust (B4)			Water-Stained Lex 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Dxidized Rhizosph Presence of Redu	ites (B13) Odor (C1) heres along Lir reed Iron (C4)	ept MLRA	Second Wa Dra Dra Sat Geo Sha	ary Indicator ter-Stained L 4A, and 4B) inage Pattern -Season Wa uration Visibi omorphic Por allow Aquitan	s (2 or more eaves (B9) (ns (B10) ter Table (C2 le on Aerial I sition (D2) d (D3)	<u>required)</u> (MLRA 1, 2, 2)
Depth (inches): emarks: DROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	gy indicatori (minimum of r (A1) able (A2) 3) (B1) posits (B2) (B3) crust (B4) (B5)			Water-Stained Lex 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Dxidized Rhizospi Presence of Redu Recent Iron Redu	IB) Odor (C1) heres along Lin ced Iron (C4) ction in Tilled S	ept MLRA	Second Wa Dra Dra Dry Sat Gen Sha FAC	ary Indicator ter-Stained L 4A, and 4B) inage Patter -Season Wai uration Visibi omorphic Por allow Aquitan C-Neutral Ter	s (2 or more eaves (B9) (ns (B10) ter Table (C2 le on Aerial I sition (D2) d (D3) st (D5)	required) (MLRA 1, 2, 2) magery (C9
Depth (inches): emarks: DROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soll C	gy indicators (minimum of r (A1) able (A2) 3) (B1) cosits (B2) (B3) (B3) crust (B4) (B5) cracks (B6)	one requi		Water-Stained Lea 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Dxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stresse	HB) Odor (C1) heres along Li iced Iron (C4) ction in Tilled (ad Plants (D1)	ept MLRA	Second Wa Dra Dra Sat Sat Sat Sat FAC Rai	ary Indicator ter-Stained L 4A, and 4B) inage Patter -Season Wa uration Visibi omorphic Pos allow Aquitan C-Neutral Ter sed Ant Mou	s (2 or more eaves (B9) (ns (B10) ter Table (C2 le on Aerial I sition (D2) d (D3) st (D5) nds (D6) (LF	réquired) MLRA 1, 2, 2) magery (C9
Depth (inches): marks: DROLOGY etland Hydrolog mary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Via	gy Indicators (minimum of r (A1) able (A2) 3) (B1) cosits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aeria	one requi	 (B7)	Water-Stained Lex 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Dxidized Rhizospi Presence of Redu Recent Iron Redu	HB) Odor (C1) heres along Li iced Iron (C4) ction in Tilled (ad Plants (D1)	ept MLRA	Second Wa Dra Dra Sat Sat Sat Sat FAC Rai	ary Indicator ter-Stained L 4A, and 4B) inage Patter -Season Wai uration Visibi omorphic Por allow Aquitan C-Neutral Ter	s (2 or more eaves (B9) (ns (B10) ter Table (C2 le on Aerial I sition (D2) d (D3) st (D5) nds (D6) (LF	réquired) MLRA 1, 2, 2) magery (C9
Depth (inches): amarks: DROLOGY etland Hydrolog imary Indicatora Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Via Sparsely Vege	gy Indicatori (minimum of r (A1) able (A2) 3) (B1) bosits (B2) (B3) (B3) Crust (B4) (B5) Cracks (B6) able on Aerial stated Conca	one requi	 (B7)	Water-Stained Lea 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Dxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stresse	HB) Odor (C1) heres along Li iced Iron (C4) ction in Tilled (ad Plants (D1)	ept MLRA	Second Wa Dra Dra Sat Sat Sat Sat FAC Rai	ary Indicator ter-Stained L 4A, and 4B) inage Patter -Season Wa uration Visibi omorphic Pos allow Aquitan C-Neutral Ter sed Ant Mou	s (2 or more eaves (B9) (ns (B10) ter Table (C2 le on Aerial I sition (D2) d (D3) st (D5) nds (D6) (LF	réquired) MLRA 1, 2, 2) magery (C9
Depth (inches): marks: DROLOGY etland Hydrolog mary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Via Sparsely Vege Id Observation	gy Indicatori (minimum of r (A1) able (A2) 3) (B1) bosits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aeria atated Conca	ons requi	 (B7) (B8)	Water-Stained Lea 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in R	HB) Odor (C1) heres along Li iced Iron (C4) ction in Tilled (ad Plants (D1)	ept MLRA	Second Wa Dra Dra Sat Sat Sat Sat FAC Rai	ary Indicator ter-Stained L 4A, and 4B) inage Patter -Season Wa uration Visibi omorphic Pos allow Aquitan C-Neutral Ter sed Ant Mou	s (2 or more eaves (B9) (ns (B10) ter Table (C2 le on Aerial I sition (D2) d (D3) st (D5) nds (D6) (LF	réquired) MLRA 1, 2, 2) magery (C9
Depth (inches): marks: DROLOGY atland Hydrolog mary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soll C Inundation Via Sparsely Vege Md Observation rface Water Pre	gy Indicators (minimum of r (A1) able (A2) 3) (B1) sosits (B2) (B3) (B3) (B3) (B3) (B3) (B3) (B5) cracks (B6) sible on Aerial stated Conca- 15: cracks (B6)	one requi	(B7)	Water-Stained Lea 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospl Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in F 	HB) Odor (C1) heres along Li iced Iron (C4) ction in Tilled (ad Plants (D1)	ept MLRA	Second Wa Dra Dra Sat Sat Sat Sat FAC Rai	ary Indicator ter-Stained L 4A, and 4B) inage Patter -Season Wa uration Visibi omorphic Pos allow Aquitan C-Neutral Ter sed Ant Mou	s (2 or more eaves (B9) (ns (B10) ter Table (C2 le on Aerial I sition (D2) d (D3) st (D5) nds (D6) (LF	réquired) MLRA 1, 2, 2) magery (C9
Depth (inches): emarks: DROLOGY etland Hydrolog imary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Algal Mat or C Surface Soil C Inundation Via Sparsely Vege etd Observation Inface Water Pre- ater Table Prese	gy Indicaton (minimum of r (A1) able (A2) 3) (B1) bosits (B2) (B3) (rust (B4) (B5) cracks (B6) sible on Aerial blated Conca- te: sent?	one requi	(B7) (B8)	Water-Stained Lea 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Dxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in f Depth (inches): Depth (inches):	HB) Odor (C1) heres along Li iced Iron (C4) ction in Tilled (ad Plants (D1)	ept MLRA ring Roots (C3) Soils (C6) (LRR A)	Second Wa Dra Dra Sat Sat Sat Sat Sat Sat Sat Sat Sat Sa	ary Indicator ter-Stained L 4A, and 4B) inage Patten Season Wa uration Visibi omorphic Pos allow Aquitan C-Neutral Ter sed Ant Mou st-Heave Hu	s (2 or more eaves (B9) (ns (B10) ter Table (C2 le on Aerial I sition (D2) d (D3) st (D5) nds (D6) (LF mmocks (D7	<u>required</u>) (MLRA 1, 2, 2) magery (C9 RR A) ')
Depth (inches): emarks: DROLOGY etland Hydrolog imary Indicators 	gy Indicator (minimum of r (A1) able (A2) 3) (B1) bosits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aeria atated Conca ts: sent? ent? i? fringe)	ons requi	(B7) (B8)	Water-Stained Lea 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Dxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in f Depth (inches): Depth (inches):	HB) Ites (B13) Odor (C1) heres along Lin ced Iron (C4) ction in Tilled 1 ad Plants (D1) Remarks)	ept MLRA ving Roots (C3) Soils (C6) (LRR A) Wetland Hy	Second Wa Dra Dry Sat Sat FAC Rai Fro Fro	ary Indicator ter-Stained L 4A, and 4B) inage Patter -Season Wa uration Visibi omorphic Pos allow Aquitan C-Neutral Ter sed Ant Mou	s (2 or more eaves (B9) (ns (B10) ter Table (C2 le on Aerial I sition (D2) d (D3) st (D5) nds (D6) (LF mmocks (D7	réquired) MLRA 1, 2, 2) magery (C9
Depth (inches): emarks: DROLOGY etland Hydrolog imary Indicators 	gy Indicator (minimum of r (A1) able (A2) 3) (B1) bosits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aeria atated Conca ts: sent? ent? i? fringe)	ons requi	(B7) (B8)	Water-Stained Lea 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Dxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in f Depth (inches): Depth (inches):	HB) Ites (B13) Odor (C1) heres along Lin ced Iron (C4) ction in Tilled 1 ad Plants (D1) Remarks)	ept MLRA ving Roots (C3) Soils (C6) (LRR A) Wetland Hy	Second Wa Dra Dry Sat Sat FAC Rai Fro Fro	ary Indicator ter-Stained L 4A, and 4B) inage Patten Season Wa uration Visibi omorphic Pos allow Aquitan C-Neutral Ter sed Ant Mou st-Heave Hu	s (2 or more eaves (B9) (ns (B10) ter Table (C2 le on Aerial I sition (D2) d (D3) st (D5) nds (D6) (LF mmocks (D7	<u>required</u>) (MLRA 1, 2, 2) magery (C9 RR A) ')
Depth (inches): emarks: DROLOGY etland Hydrolog imary Indicators 	gy Indicator (minimum of r (A1) able (A2) 3) (B1) bosits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aeria atated Conca ts: sent? ent? i? fringe)	ons requi	(B7) (B8)	Water-Stained Lea 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Dxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in f Depth (inches): Depth (inches):	HB) Ites (B13) Odor (C1) heres along Lin ced Iron (C4) ction in Tilled 1 ad Plants (D1) Remarks)	ept MLRA ving Roots (C3) Soils (C6) (LRR A) Wetland Hy	Second Wa Dra Dry Sat Sat FAC Rai Fro Fro	ary Indicator ter-Stained L 4A, and 4B) inage Patten Season Wa uration Visibi omorphic Pos allow Aquitan C-Neutral Ter sed Ant Mou st-Heave Hu	s (2 or more eaves (B9) (ns (B10) ter Table (C2 le on Aerial I sition (D2) d (D3) st (D5) nds (D6) (LF mmocks (D7	<u>required</u>) (MLRA 1, 2, 2) magery (C9 RR A) ')
Depth (inches): emarks: DROLOGY etland Hydrolog imary Indicators 	gy Indicator (minimum of r (A1) able (A2) 3) (B1) bosits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aeria atated Conca ts: sent? ent? i? fringe)	ons requi	(B7) (B8)	Water-Stained Lea 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Dxidized Rhizosph Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in f Depth (inches): Depth (inches):	HB) Ites (B13) Odor (C1) heres along Lin ced Iron (C4) ction in Tilled 1 ad Plants (D1) Remarks)	ept MLRA ving Roots (C3) Soils (C6) (LRR A) Wetland Hy	Second Wa Dra Dry Sat Sat FAC Rai Fro Fro	ary Indicator ter-Stained L 4A, and 4B) inage Patten Season Wa uration Visibi omorphic Pos allow Aquitan C-Neutral Ter sed Ant Mou st-Heave Hu	s (2 or more eaves (B9) (ns (B10) ter Table (C2 le on Aerial I sition (D2) d (D3) st (D5) nds (D6) (LF mmocks (D7	<u>required</u>) (MLRA 1, 2, 2) magery (C9 RR A) ')

Project/Site: Ja Mungh	City/County:	Mongsville	Sampling Date: 3-9-22 Sampling Point: DP#3
Applicant/Owner:		State: WA	Sampling Point: DPF3
Investigator(s):		ship, Range:	
Landform (hillslope, terrace, etc.):	Local relief (co	ncave, convex, none):	Slope (%):
Subregion (LRR):	Lat:	Long:	Datum:
Soll Map Unit Name:		NWI classi	fication:
Are climatic / hydrologic conditions on the site typical for t	his time of year? Yes	No (If no, explain in	Remarks.)
Are Vegetation, Soll, or Hydrology	significantly disturbed?	Are "Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(if needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS - Attach site maj	showing sampling p	point locations, transect	s, important features, etc.

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

VEGETATION – Use scientific names of plants.

	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species? Status	Number of Dominant Species
1.			That Are OBL, FACW, or FAC: (A)
2			
			Total Number of Dominant Z
3			Species Across All Strata: (B)
4.			Percent of Dominant Species
		= Total Cover	Percent of Dominant Species 5 0 That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)			
1. Rubus I remarky	30	FACL	Prevalence Index worksheet:
2		******	Total % Cover of: Multiply by:
2.			
3			OBL species x 1 =
4			FACW species 2ω x2= 4ω
5			1
		= Total Cover	FAC species $x_3 =$ FACU species $3 \cup x_4 = /2 \cup$
Herb Stratum (Plot size:)		- Torai Covar	
1. Tucus ettast	70	FACE	UPL species x 5 =
			Column Totals: 50 (A) 160 (B)
2	-		
3			Prevalence Index = B/A = 3.2
4			Hydrophytic Vegetation Indicators:
			Dominance Test is >50%
5			
6			Prevalence Index is ≤3.0 ¹
7	_		Morphological Adaptations ¹ (Provide supporting
8			data in Remarks or on a separate sheet)
			Wetland Non-Vascular Plants ¹
9			Problematic Hydrophytic Vegetation' (Explain)
10		-	
11			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		= Total Cover	Les hassers' auges ansaines à higherige
Woody Vine Stratum (Plot size:)	*****		
1			Alexandread a
			Hydrophytic Vegetation
2.	•		Present? Yes No
	-	= Total Cover	
% Bare Ground in Herb Stratum			
Remarks:			
	~~~~~		

8       / 0 Yhu Z / Z         / 4       Z · S · Y Y / / Y         / 4       Z · S · Y Y / Y         / 4       Z · S · Y Y / Y         / 4       Z · S · Y Y Y / Y         / 4       Z · S · Y Y Y / Y         / 6       Z · S · Y Y Y / Y         / 7       Z · S · Y Y Y / Y         / 6       Z · S · Y Y Y / Y         / 7       Z · S · Y Y Y / Y         / 6       Z · S · Y Y Y / Y         / 7       Z · S · Y Y Y / Y         / 16       Z · S · Y Y Y / Y         / 16       Z · S · Y Y Y / Y         / 17       Z · S · Y Y Y / Y         / 16       Z · S · Y Y Y / Y         / 7       Z · S · Y Y Y / Y         / 7       Z · S · Y Y Y / Y         / 7       Z · S · Y Y Y / Y         / 7       Z · S · Y Y Y / Y         / 7       Z · S · Y Y Y / Y         / 7       Z · S · Y Y Y / Y         / 7       Z · S · Y Y Y / Y         / 7       Z · Y · Y · Y · Y · Y · Y · Y · Y · Y ·	s otherwise noted.) edox (S5) Matrix (S6) lucky Mineral (F1) (except MLRA ileyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F6) epressions (F8)	Sulfy Ju Sulfy Ju I Grains. ² Location Indicators f Red Pa 1) Other (I ³ Indicators of wetland I	on: PL=Pore Lining, M=Matrix. for Problematic Hydric Solis ³ : uck (A10) rent Material (TF2) Explain in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
8       / 0 Y/L       2/2         / 4       2/5 Y       4/4         //4       4/4       2/5 Y         //4       Histosol (A1)	trix, CS=Covered or Coated Sand s otherwise noted.) edox (S5) Matrix (S6) lucky Mineral (F1) (except MLRA ileyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F7) epressions (F8)	Surg IL Surg IL Grains. ² Locatic Indicators I 2 cm M Red Pa 1) Other (I ³ Indicators c wetland I unless di Hydric Soil Pre	m: PL=Pore Lining, M=Matrix.         for Problematic Hydric Solis ³ :         uck (A10)         rent Material (TF2)         Explain in Remarks)         of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
/ 4       Z · S · Y       Y / Y         // 4       Z · S · Y       Y / Y         // 4       Z · S · Y       Y / Y         // 4       Z · S · Y       Y / Y         // 4       Z · S · Y       Y / Y         // 4       Z · S · Y       Y / Y         // 5       // 4       // 4         // 7       // 4       // 4         // 7       // 4       // 4         // 7       // 4       // 4         // 7       // 4       // 4         // 8       // 4       // 4         // 10       // 5       Sandy Re         // 10       // 5       Sandy Re         // 10       // 4       Sandy Re         // 10       // 5       Sandy Re         // 10       // 5       Sandy Re         // 10       // 5       Loamy G         // 10       // 10       Loamy G         // 10       // 10       // 10         // 10       // 10       Loamy G         // 10       // 10       // 10         // 10       // 10       // 10         // 10       // 10       // 10         // 10       // 10	s otherwise noted.) edox (S5) Matrix (S6) lucky Mineral (F1) (except MLRA ileyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F6) epressions (F8)	I Grains. ² Locatic Indicators I Red Pa 1) Other (I ³ Indicators c wetland I unless di	on: PL=Pore Lining, M=Matrix. for Problematic Hydric Solis ³ : uck (A10) rent Material (TF2) Explain in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
ype: C=Concentration, D=Depletion, RM=Reduced Mail         ydric Soil Indicators: (Applicable to all LRRs, unless         Histosol (A1)	s otherwise noted.) edox (S5) Matrix (S6) lucky Mineral (F1) (except MLRA ileyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F6) epressions (F8)	I Grains. ² Locatic Indicators I Red Pa 1) Other (I ³ Indicators c wetland I unless di	on: PL=Pore Lining, M=Matrix. for Problematic Hydric Solis ³ : uck (A10) rent Material (TF2) Explain in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
ype:       C=Concentration, D=Depletion, RM=Reduced Maindric Soil Indicators:         ydric Soil Indicators:       (Applicable to all LRRs, unlessed)         Histosol (A1)	s otherwise noted.) edox (S5) Matrix (S6) lucky Mineral (F1) (except MLRA ileyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F6) epressions (F8)	I Grains. ² Locatic Indicators I Red Pa 1) Other (I ³ Indicators c wetland I unless di	on: PL=Pore Lining, M=Matrix. for Problematic Hydric Solis ³ : uck (A10) rent Material (TF2) Explain in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
rdric Soil Indicators: (Applicable to all LRRs, unless         Histosol (A1)	s otherwise noted.) edox (S5) Matrix (S6) lucky Mineral (F1) (except MLRA ileyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F6) epressions (F8)	Indicators 1 2 cm M Red Pa Red Pa Red Pa Other (I Other (I	or Problematic Hydric Solis ³ : uck (A10) rent Material (TF2) Explain in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
vdric Soil Indicators:       (Applicable to all LRRs, unless         Histosol (A1)	s otherwise noted.) edox (S5) Matrix (S6) lucky Mineral (F1) (except MLRA ileyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F6) epressions (F8)	Indicators 1 2 cm M Red Pa Red Pa Red Pa Other (I Other (I	or Problematic Hydric Solis ³ : uck (A10) rent Material (TF2) Explain in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
rdric Soil Indicators: (Applicable to all LRRs, unless         Histosol (A1)	s otherwise noted.) edox (S5) Matrix (S6) lucky Mineral (F1) (except MLRA ileyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F6) epressions (F8)	Indicators 1 2 cm M Red Pa Red Pa Red Pa Other (I Other (I	or Problematic Hydric Solis ³ : uck (A10) rent Material (TF2) Explain in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
rdric Soil Indicators: (Applicable to all LRRs, unless         Histosol (A1)	s otherwise noted.) edox (S5) Matrix (S6) lucky Mineral (F1) (except MLRA ileyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F6) epressions (F8)	Indicators 1 2 cm M Red Pa Red Pa Red Pa Other (I Other (I	or Problematic Hydric Solis ³ : uck (A10) rent Material (TF2) Explain in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Histosol (A1)	edox (S5) Matrix (S6) Iucky Mineral (F1) (except MLRA ileyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F7) epressions (F8)	2 cm M Red Pa .1) Other (i ³ Indicators c wetland i unless di Hydric Soil Pre	uck (A10) rent Material (TF2) Explain in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Histic Epipedon (A2)       Stripped         Black Histic (A3)       Loamy M         Hydrogen Sulfide (A4)       Loamy G         Depleted Below Dark Surface (A11)       Depleted         Thick Dark Surface (A12)       Redox Dark Surface (A12)         Sandy Mucky Mineral (S1)       Depleted         Sandy Gleyed Matrix (S4)       Redox Dark Surface (A12)         Strictive Layer (If present):       Type:         Depth (inches):	Matrix (S6) lucky Mineral (F1) (except MLRA ileyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F6) epressions (F8)	.1) Red Pa Other (I ³ Indicators of wetland I unless di Hydric Soil Pre	rent Material (TF2) Explain in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Black Histic (A3) Loamy M Hydrogen Sulfide (A4) Loamy G Depleted Below Dark Surface (A11) Depleted Thick Dark Surface (A12) Redox Da Sandy Mucky Mineral (S1) Depleted Sandy Gleyed Matrix (S4) Redox Da Destrictive Layer (If present): Type: Depth (inches):	lucky Mineral (F1) (except MLRA Bleyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F6) epressions (F8)	.1) Other (I ³ Indicators of wetland I unless di Hydric Soil Pre	Explain in Remarks) of hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Hydrogen Sulfide (A4)       Loamy G         Depleted Below Dark Surface (A11)       Depleted         Thick Dark Surface (A12)       Redox Dark Surface (A12)         Sandy Mucky Mineral (S1)       Depleted         Sandy Gleyed Matrix (S4)       Redox Dark Surface (A12)         Sandy Gleyed Matrix (S4)       Redox Dark Surface (A12)         Depleted       Redox Dark Surface (A12)         Sandy Mucky Mineral (S1)       Depleted         Sandy Gleyed Matrix (S4)       Redox Dark Surface (Matrix (S4))         Depleted       Redox Dark Surface (Matrix (S4))         Sandy Gleyed Matrix (S4)       Redox Dark Surface (Matrix (S4))         Sandy Gleyed Matrix (S4)       Redox Dark Surface (Matrix (S4))         Sandy Gleyed Matrix (S4)       Redox Dark Surface (Matrix (S4))         Sandy Gleyed Matrix (S4)       Redox Dark Surface (Matrix (S4))         Sandy Gleyed Matrix (S4)       Redox Dark Surface (Matrix (S4))         Sandy Gleyed Matrix (S4)       Redox Dark Surface (Matrix (S4))         Sandy Gleyed Matrix (S4)       Redox Dark Surface (Matrix (S4))         Depth (inches):       Redox Dark Surface (Matrix (S4))	ileyed Matrix (F2) Matrix (F3) ark Surface (F6) Dark Surface (F7) epressions (F8)	³ Indicators o wetland I unless di Hydric Soil Pre	f hydrophytic vegetation and hydrology must be present, sturbed or problematic.
Depleted Below Dark Surface (A11)       Depleted         Thick Dark Surface (A12)       Redox Dark Dark Dark Dark Dark Dark Dark Dark	Matrix (F3) ark Surface (F6) Dark Surface (F7) epressions (F8)	wetland I unless di Hydric Soil Pre	hydrology must be present, sturbed or problematic.
Thick Dark Surface (A12) Redox Da Sandy Mucky Mineral (S1) Depleted Sandy Gleyed Matrix (S4) Redox Da estrictive Layer (if present): Type: Depth (inches):	ark Surface (F6) Dark Surface (F7) epressions (F8)	wetland I unless di Hydric Soil Pre	hydrology must be present, sturbed or problematic.
Sandy Mucky Mineral (S1) Depleted Sandy Gleyed Matrix (S4) Redox Du estrictive Layer (if present): Type: Depth (inches):	Dark Surface (F7) epressions (F8)	wetland I unless di Hydric Soil Pre	hydrology must be present, sturbed or problematic.
Sandy Gleyed Matrix (S4) Redox Destrictive Layer (if present): Type: Depth (inches):	epressions (F8)	unless di Hydric Soil Pre	sturbed or problematic.
strictive Layer (if present): Type: Depth (inches):		Hydric Soil Pre	
Type: Depth (inches):			sent? Yes No
Depth (inches):			sent? Yes No
	~		rsent? Yes No
marks:	~	·····	
	~	,	
DROLOGY			
atland Hydrology Indicators: mary Indicators (minimum of one required; check all tha	at annh ù	Secondo.	n hadional and the second second second second
			v Indicators (2 or more required)
and a second	er-Stained Leaves (89) (except I I, 2, 4A, and 4B)		r-Stained Leaves (B9) (MLRA 1, ; ), and 4B)
, .	Crust (B11)		age Patterns (B10)
			•
	atic Invertebrates (B13)		eason Water Table (C2)
	rogen Sulfide Odor (C1)		ation Visible on Aerial Imagery (C
· · · · · · · · · · · · · · · · · · ·	fized Rhizospheres along Living F		norphic Position (D2)
	sence of Reduced Iron (C4)		ow Aquitard (D3)
	ent Iron Reduction in Tilled Soils		Neutral Test (D5)
	nted or Stressed Plants (D1) (LRF		id Ant Mounds (D6) (LRR A)
	er (Explain in Remarks)	Frost	-Heave Hummocks (D7)
_ Sparsely Vegetated Concave Surface (B8)		and the state of the	
old Observations:			
	pth (inches):		
ater Table Present? Yes No	pth (inches):		
turation Present? Yes No Der	pth (inches): W	etland Hydrology Pr	esent? Yes No
cludes capillary fringe) iscribe Recorded Data (stream gauge, monitoring well, a			
marks:			

Project/Site: Ja Munghy	City/County:	hungsville	Sampling Date: 3-9-22
Applicant/Owner:		State: WA-	Sampling Point:
Investigator(s):	Section, Township	, Range:	
Landform (hilislope, terrace, etc.):	Local relief (conce	ive, convex, none):	Slope (%):
Subregion (LRR): La	et:	Long:	Datum:
Soil Map Unit Name:		NWI classific	cation:
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes f	lo (If no, explain in F	lemarks.)
Are Vegetation, Soil, or Hydrology signific	icantly disturbed?	Are "Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrology natura	ally problematic? (	If needed, explain any answe	ers in Remarks.)
	* • •	<i>.</i>	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	is the Sampled Area within a Wetland?	Yes No
Remarks: above	Normal Maint	, L.I	

### VEGETATION -- Use scientific names of plants.

	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Piot size:)	% Cover	Species? Status	Number of Dominant Species
1.			That Are OBL, FACW, or FAC: (A)
2			
			Total Number of Dominant
3			Species Across All Strata:(B)
4.			Demont of Demission Operation
		= Total Cover	Percent of Dominant Species / www. That Are OBL, FACW, or FAC; (A/B)
Sapling/Shrub Stratum (Plot size:)			That Are OBL, FACW, or FAC: (A/B)
1		-	Prevalence index worksheet:
2			Total % Cover of: Multiply by:
3			OBL species x 1 =
4.			FACW species x2 =
5			FAC species x 3 =
		= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)		h.	UPL species x 5 =
1. Agrestis SAD	40	FAL	Column Totals: (A) (B)
2			(0)
3			Prevalence Index = B/A =
4			Hydrophytic Vegetation Indicators:
5			Pominance Test is >50%
6,			Prevalence Index is ≤3.0 ¹
7			Morphological Adaptations ¹ (Provide supporting
8			data in Remarks or on a separate sheet)
9	*** ******		Wetland Non-Vascular Plants ¹
10			Problematic Hydrophytic Vegetation ¹ (Explain)
11	nin detaration de déservant		Indicators of hydric soil and wetland hydrology must
·····			be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		= Total Cover	
1.	······		Hydrophytic
2	······································		Vegetation Present? Yes No
		= Total Cover	riusentr 10810
% Bare Ground in Herb Stratum			
Remarks:			
		****	

Depth       Matrix       Radox Features         14	Profile Description: (Describe to the de	apth needed to document the indicator or confirm	Sampling Point:
14       1941 31 72       Sava         17pe: C=Concentration, D=Deptetion, RM=Reduced Matrix, CS=Covered or Costed Send Grains.       *Location: PL=Pore Lining, M=Matrix, Indicators for Problematic Hydric Solit=':         11stood (A1)		Redox Features	
Ype:	a a state	<u>Color (moist)</u> % <u>Type'</u> Loc ²	
pdrid Soil Indicators:       (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils*:         _ Histosoi (A1)	14 104312		Saly in
rdric Soil Indicators:       (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils*:         Histosol (A1)			
rdric Soil Indicators:       (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils*:         Histosol (A1)		***************************************	
rdric Soil Indicators:       (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils*:         Histosol (A1)			
pdrid Soil Indicators:       (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils*:         _ Histosoi (A1)		-	
pdrid Soil Indicators:       (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils*:         _ Histosoi (A1)			
pdrid Soil Indicators:       (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils*:         _ Histosoi (A1)			
rdric Soil Indicators:       (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils*:         Histosol (A1)			
rdrb: Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils*:         Histosoi (A1)			
rdrt Soil Indicators: (Applicable to all LRRe, unless otherwise noted.)       Indicators for Problematic Hydric Soils*:         Histosoi (A1)			
Histoaol (A1)			
Histic Epipedon (A2)       Stripped Matrix (S6)       Red Parent Material (TF2)         Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Other (Explain in Remarks)         Hydrogen Suffac (A4)       Loamy Gleyed Matrix (F2)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3) ³ ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       wetland hydrology nust be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       wetland hydrology nust be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Hydric Soil Present? Yes No         marks:	dric Soil Indicators: (Applicable to a	ll LRRs, unless otherwise noted.}	Indicators for Problematic Hydric Solis ³ :
Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Other (Explain in Remarks)         Hydrogen Suffide (A4)       Loamy Gleyed Matrix (F2)       Other (Explain in Remarks)         Opereted Below Dark Surface (A11)       Depleted Matrix (F3)       *indicators of hydrophytic vegetation and wetland hydroology must be present, unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Depleted Matrix (F3)       unless disturbed or problematic.         strictive Layer (if present):       Type:       No         Type:       Deplet (inches):       Hydric Soil Present? Yes       No         Depth (inches):       Hydric Soil Present?       Yes       No         Drace Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2         High Water Table (A2)       1, 2, 4A, and 4B       Drainage Patterns (B10)         Seturation (A3)       Salt Curu (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Seturation (A3)       Salt Curu (B11)       Drainage Patterns (B10)         Water Marks (B2)       Hydrogen Suffide Odor (C1)       Saturation Viable on Aerial Imagery (C1)         Agai Mat or Crust (B4)			
Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Trick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         unless disturbed or problematic.         Strictive Layer (if present):         Type:         Depth (inches):         mark indicators (minimum of one required: check all flet apph/)         Surface Water (A1)         High Water Table (A2)         1, 2, 4A, and 4B)         Saturation (A3)         Saturation (A3)         Saturation (A3)         Saturation (A3)         Orifi Deposits (B3)         Orifi Deposits (B3)         Orifi Deposits (B3)         Recent Iron Reduction in Tilled Soits (C8)         Recent Iron Reduction in Tilled Soits (C8)         Foot Present?         Yes         No         Depter Marks (D4)         Presence of Reduced Iron (C4)         Saturation Visible on Aerial Imagery (C1)         Saturation Visible on Aerial Imagery (B7)         Other (Explain in Remarks)			
Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       ************************************			Other (Explain in Remarks)
Thick Dark Surface (A12)       Redox Dark Surface (F8)       *Indicators of hydrophytic vegetation and wetland hydrology must be present, sandy Glaved Matrix (S4)       Depleted Dark Surface (F7)         Sandy Glaved Matrix (S4)       Redox Depressions (F8)       unless disturbed or problematic.         Strictive Layer (If present):       Type:       Hydric Soil Present? Yee       No         Depth (inches):       Hydric Soil Present? Yee       No       Model Present? Yee       No         DROLOGY       Secondary Indicators:       Mydric Soil Present? Yee       No       Model Present? Yee       No         Drokicators (minimum of one required: check all that apply)       Secondary Indicators (2 or more required)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)       4A, and 4B)         Saturation (A3)       Sati Crust (B11)       Droisage Patterns (B10)       Dry-Season Water Table (C2)         Drift Deposits (B3)       Oridized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)       Agai Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shatew Aquitard (C3)         Iron Deposits (B5)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D5) (LRR A)         Iron Deposits (B5)<			
Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       wetland hydrology must be present, unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       unless disturbed or problematic.         satiritative Layer (If present):       Type:			Hadiachan at huden to dia un adabien and
strictive Layer (if present):         Type:         Depth (inches):			
Type:			
Depth (inches):			
ameriks:			
estiand Hydrology Indicators:       Secondary Indicators:         imary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)	Type: Depth (inches):		Hydric Soil Present? Yes No
imary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         _ Surface Water (A1)	Type: Depth (inches): emarks:		Hydric Soil Present? Yes No
Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Sati Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C8)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Depth (inches):       Depth (inches):       No         etar Table Present?       Yes       No       Depth (inches):       No         utration Present?       Yes       No       Depth (inches):       No       No	Type: Depth (inches): emarks:		Hydric Soil Present? Yes No
High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)	Type: Depth (inches): amarks: DROLOGY etland Hydrology indicators:		Hydric Soil Present? Yes No
Saturation (A3)	Type: Depth (inches): amarks: DROLOGY etland Hydrology indicators:		
Water Marks (B1)	Type: Depth (inches): amarks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one requir	ed: check all that apply)	Secondary Indicators (2 or more required)
Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Depth (inches):       Depth (inches):       Metiand Hydrology Present? Yes         atter Table Present?       Yes       No       Depth (inches):       Metiand Hydrology Present? Yes       No         atter Table Present?       Yes       No       Depth (inches):       Metiand Hydrology Present? Yes       No	Type: Depth (inches): amarks: /DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one requir _ Surface Water (A1)	ed: check all that apply) Water-Stained Leaves (B9) (except MLF	<u>Secondary Indicators (2 or more required)</u> RAWater-Stained Leaves (B9) (MLRA 1, 2,
Drift Deposits (B3)     Oxidized Rhizospheres along Living Roots (C3)     Geomorphic Position (D2)     Algal Mat or Crust (B4)     Presence of Reduced Iron (C4)     Shallow Aquitard (D3)     Iron Deposits (B5)     Recent Iron Reduction in Tilled Soits (C6)     Surface Soil Cracks (B6)     Stunted or Stressed Plants (D1) (LRR A)     Raised Ant Mounds (D6) (LRR A)     Inundation Visible on Aerial Imagery (B7)     Other (Explain in Remarks)     Frost-Heave Hummocks (D7)     Sparsely Vegetated Concave Surface (B8) eld Observations:     Intrace Water Present?     Yes No     Depth (inches): ater Table Present?     Yes No     Depth (inches):     Wetland Hydrology Present?     Yes No     Depth (inches):	Type: Depth (inches): emarks: /DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2)	ed: check all that apply) Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B)	<u>Secondary Indicators (2 or more required)</u> RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Algal Mat or Crust (B4)      Presence of Reduced Iron (C4)      Shallow Aquitard (D3)        Iron Deposits (B5)      Recent Iron Reduction in Tilled Soits (C6)      FAC-Neutral Test (D5)        Surface Soil Cracks (B6)      Stunted or Stressed Plants (D1) (LRR A)      Raised Ant Mounds (D6) (LRR A)        Inundation Visible on Aerial Imagery (B7)      Other (Explain in Remarks)      Frost-Heave Hummocks (D7)        Sparsely Vegetated Concave Surface (B8)      Depth (inches):	Type: Depth (inches): amarks: /DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one requir 	ed: check all that apply) Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11)	<u>Secondary Indicators (2 or more required)</u> RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Iron Deposits (B5)	Type: Depth (inches): emarks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one requir 	ed: check all that apply) Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	<u>Secondary Indicators (2 or more required)</u> RA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Surface Soil Cracks (B6)	Type: Depth (inches): amarks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one requir 	ed: check all that apply) Water-Stained Leaves (B9) (except MLF 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required)     A     Water-Stained Leaves (B9) (MLRA 1, 2,         4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) eld Observations:  after Table Present? Yes No Depth (inches): atter Table Present? Yes No Depth (inches): aturation Present? Yes No Depth (inches): aturation Present? Yes No Depth (inches): aturation Present? Yes No Depth (inches):	Type: Depth (inches): amarks: /DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one requir _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) _ Sediment Deposits (B2) _ Drift Deposits (B3)	ed: check all that apply) 	Secondary Indicators (2 or more required)      A
Sparsely Vegetated Concave Surface (B8) eld Observations: Inface Water Present? Yes Depth (inches): ater Table Present? Yes No Depth (inches): sturation Present? Yes No Depth (inches): sturation Present? Yes No Depth (inches): includes capillary fringe)	Type: Depth (inches): amarks: /DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one requir 	ed: check all that apply) 	Secondary Indicators (2 or more required)      Water-Stained Leaves (B9) (MLRA 1, 2,         4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9)     ts (C3) Geomorphic Position (D2)     Shallow Aquitard (D3)
eld Observations:         urface Water Present?       Yes Depth (inches):         ater Table Present?       Yes Depth (inches):         ater Table Present?       Yes Depth (inches):         uturation Present?       Yes No Depth (inches):	Type: Depth (inches): amarks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one requir 	ed: check all that apply) 	Secondary Indicators (2 or more required)      A     Water-Stained Leaves (B9) (MLRA 1, 2,         4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9)     Saturation Visible on Aeri
Inface Water Present? Yes No Depth (inches): ater Table Present? Yes No Depth (inches): ituration Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No	Type: Depth (inches): amarks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one requir 	ed: check all that apply) 	Secondary Indicators (2 or more required)     Water-Stained Leaves (B9) (MLRA 1, 2,         4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9)     ts (C3) Geomorphic Position (D2)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)     Raised Ant Mounds (D6) (LRR A)
ater Table Present? Yes No Depth (inches): turation Present? Yes No Depth (inches): cludes capillary fringe) Wetland Hydrology Present? Yes No	Type: Depth (inches): marks: DROLOGY atland Hydrology Indicators: mary Indicators (minimum of one requir 	ed: check all that apply) 	Secondary Indicators (2 or more required)     Water-Stained Leaves (B9) (MLRA 1, 2,         4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9)     ts (C3) Geomorphic Position (D2)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)     Raised Ant Mounds (D6) (LRR A)
turation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No	Type: Depth (inches): amarks: DROLOGY atland Hydrology Indicators: imary Indicators (minimum of one requir 	ed: check all that apply) 	Secondary Indicators (2 or more required)     Water-Stained Leaves (B9) (MLRA 1, 2,         4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9)     ts (C3) Geomorphic Position (D2)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)     Raised Ant Mounds (D6) (LRR A)
cludes capillary fringe)	Type: Depth (inches): emerks: /DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one requir 	ed: check all that apply) 	Secondary Indicators (2 or more required)     Water-Stained Leaves (B9) (MLRA 1, 2,         4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9)     ts (C3) Geomorphic Position (D2)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)     Raised Ant Mounds (D6) (LRR A)
includes capillary fringe)	Type: Depth (inches): emarks: //DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one requir 	ed: check all that apply) 	Secondary Indicators (2 or more required)     Water-Stained Leaves (B9) (MLRA 1, 2,         4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9)     ts (C3) Geomorphic Position (D2)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)     Raised Ant Mounds (D6) (LRR A)
escribe recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Type: Depth (inches): temarks: YDROLOGY Vetland Hydrology Indicators: Trimary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (B3) Saturation (B4) Sotist (B5) Surface Soil Cracks (B6) 	ed: check all that apply)	Secondary Indicators (2 or more required)      Water-Stained Leaves (B9) (MLRA 1, 2,         4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9     ts (C3) Geomorphic Position (D2)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)     Raised Ant Mounds (D6) (LRR A)     Frost-Heave Hummocks (D7)
	Type: Depth (inches): temarks: YDROLOGY Vetland Hydrology indicators: trimary Indicators (minimum of one requir 	ed: check all that apply) 	Secondary Indicators (2 or more required)      Water-Stained Leaves (B9) (MLRA 1, 2,         4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9     ts (C3) Geomorphic Position (D2)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)     Raised Ant Mounds (D6) (LRR A)     Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No
	Type: Depth (inches): emarks: //DROLOGY /etiand Hydrology indicators: rimary Indicators (minimum of one requir 	ed: check all that apply) 	Secondary Indicators (2 or more required)      Water-Stained Leaves (B9) (MLRA 1, 2,         4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9     ts (C3) Geomorphic Position (D2)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)     Raised Ant Mounds (D6) (LRR A)     Frost-Heave Hummocks (D7)  and Hydrology Present? Yes No

Project/Site:		Murphy	Cit	y/County:	Mungsville	WA	Sampling Date: <u>3-9-22</u> Sampling Point: <u>D075</u>	
Investigator(s):	21	Sent						14
							Slope (%):	
Subregion (LRR):			Lat:		Long:		Datum:	
Soil Map Unit Name:					N	WI classific	cation:	
Are climatic / hydrolog	ic conditions (	on the site typical fo	r this time of year?	Yes	No (If no, e	explain in F	lemarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly dis	turbed?	Are "Normal Circur	nstances"	present? Yes No	
Are Vegetation	, Soit	, or Hydrology	naturally proble	matic?	(If needed, explain	any answe	rs in Remarks.)	
SUMMARY OF F	INDINGS -	Attach site m	ap showing s	empling p	oint locations, t	ransects	, important features, etc.	
Hydrophytic Vegetat	ion Present?	Yes	No	h. the 8-				

Hydrophyde Vegetaant Preasint? Hydric Soil Present? Wetland Hydrology Present?	Yes No	Is the Sampled Area within a Wetland?	Yes	No
Remarks: abuve	Normal Maint	, L.J		

### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species? Status	Number of Dominant Species /
1			That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3.			Species Across All Strata: / (B)
4			Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: )		= Total Cover	That Are OBL, FACW, or FAC: 100 (A/B)
			Prevalence index worksheet:
1			Total % Cover of: Multiply by:
2			OBL species         x1 =
3			FACW species x2 =
4 5			FAC species x3 =
		= Totai Cover	FACU species x 4 =
Herb Stratum (Plot size:)		-	lipt procise v E m
1. Phalmy andre	.40	Fren	Column Totals: (A) (B)
2			(A)(B)
3.			Prevalence Index = B/A =
4			Hydrophytic Vegetation Indicators:
5			Dominance Test is >50%
6			Prevalence index is ≤3.0 ¹
7			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8			Wetland Non-Vascular Plants1
9			Problematic Hydrophytic Vegetation' (Explain)
10			¹ Indicators of hydric soil and wetland hydrology must
11			be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		= Total Cover	
1			Hydrophytic
			Hydrophytic Vegetation Present? Yes No
2		= Total Cover	Present? Yes No
% Bare Ground in Herb Stratum		- I Ulai Cover	
Remarks:	1	1	
strip of ruise	1 50	11,010	Fall!

US Army Corps of Engineers

Sampling Point: DAST6

DepthMatrix(inches)Color (moist)/L/DVI 3/2			the absence of indicators.)
		Features	_
	% Color (moist)	% Type' Loc ²	Texture Remarks
14 1011 712			Sorty h
			· · · · · · · · · · · · · · · · · · ·
adament den eigt- milgensk op stor forsær – en glande blede av sen i stjelet på separte per disense at blegen komme			
	-		
			-
Type: C=Concentration, D=Deplet			
Hydric Soil Indicators: (Applicab			Indicators for Problematic Hydric Solis ³ :
Histosol (A1)	Sandy Redox (S5		2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S	•	Red Parent Material (TF2)
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Mucky Mir	neral (F1) (except MLRA 1)	Other (Explain in Remarks)
Depleted Below Dark Surface (			
Thick Dark Surface (A12)	Redox Dark Surfa		³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Su		wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressio	• •	unless disturbed or problematic.
Restrictive Layer (if present):		47 - FERREN BURGER, FRANK BURGER, MARKER, BARK, BURGER, BURGER, BURGER, BURGER, BURGER, BURGER, BURGER, BURGER,	
Туре:			
Depth (inches):			Hydric Soil Present? Yes No
Remarks:			
YDROLOGY Wetland Hydrology Indicators:		****	
Primary Indicators (minimum of one	required; check all that apply)		Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Staine	ed Leaves (89) (except MLR	A Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1. 2. 44.	and 4B)	
and the second s	-,-,,		4A, and 4B)
Saturation (A3)	Salt Crust (B	11)	
Saturation (A3) Water Marks (B1)	Salt Crust (B	rtebrates (B13)	4A, and 4B)
Saturation (A3)	Salt Crust (B Aquatic Inve		4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Saturation (A3) Water Marks (B1)	Selt Crust (B Aquatic Inve Hydrogen Su	ntebrates (813)	4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Selt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	rtebrates (B13) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4)	4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Salt Crust (B Aquatic Invei Hydrogen Su Oxidized Rhi Presence of Recent Iron I	ntebrates (B13) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soils (C6)	4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 is (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soit Cracks (B6)	Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S	rtebrates (B13) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4)	4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 is (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima	Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S gery (B7) Other (Expla	ntebrates (B13) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soils (C6)	4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Second Phic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S	Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S gery (B7) Other (Expla	ntebrates (B13) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soils (C6) tressed Plants (D1) (LRR A)	4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9     Saturation Visible on Aerial I
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S Field Observations:	Salt Crust (B Aquatic Inves Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or So Igery (B7) Other (Expla unface (B8)	ntebrates (B13) Ilfide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soils (C6) tressed Plants (D1) (LRR A) in in Remarks)	4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9     Saturation Visible on Aerial I
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes	Salt Crust (B Aquatic Invest Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S urface (B8) No Depth (inchest)	ntebrates (813) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soils (C6) tressed Plants (D1) (LRR A) in in Remarks)	4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9     Geomorphic Position (D2)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)     Raised Ant Mounds (D6) (LRR A)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes	Salt Crust (B Aquatic Invei Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S urface (B8) No Depth (incher	ntebrates (813) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soils (C6) tressed Plants (D1) (LRR A) in in Remarks)	4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9     Saturation Visible on Aerial I
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Salt Crust (B Aquatic Invei Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or Si urface (B8) No Depth (inche No Depth (inche	rtebrates (B13) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soits (C6) tressed Plants (D1) (LRR A) in in Remarks) es):es):	4A, and 4B)     Drainage Patterns (B10)     Dry-Season Water Table (C2)     Saturation Visible on Aerial Imagery (C9     Saturation Visible on Aerial I
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Selt Crust (B Aquatic Invest Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S igery (B7) Other (Explain urface (B8) No Depth (inchesion) No Depth (inchesion) No Depth (inchesion)	rtebrates (B13) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soils (C6) tressed Plants (D1) (LRR A) in in Remarks) es): es): es): Wetla	4A, and 4B)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Selt Crust (B Aquatic Invest Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S igery (B7) Other (Explain urface (B8) No Depth (inchesion) No Depth (inchesion) No Depth (inchesion)	rtebrates (B13) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soils (C6) tressed Plants (D1) (LRR A) in in Remarks) es): es): es): Wetla	4A, and 4B)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsety Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Selt Crust (B Aquatic Invest Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S igery (B7) Other (Explain urface (B8) No Depth (inchesion) No Depth (inchesion) No Depth (inchesion)	rtebrates (B13) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soils (C6) tressed Plants (D1) (LRR A) in in Remarks) es): es): es): Wetla	4A, and 4B)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsety Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes	Selt Crust (B Aquatic Invest Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S igery (B7) Other (Explain urface (B8) No Depth (inchesion) No Depth (inchesion) No Depth (inchesion)	rtebrates (B13) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soils (C6) tressed Plants (D1) (LRR A) in in Remarks) es): es): es): Wetla	4A, and 4B)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsety Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Selt Crust (B Aquatic Invest Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S igery (B7) Other (Explain urface (B8) No Depth (inchesion) No Depth (inchesion) No Depth (inchesion)	rtebrates (B13) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soils (C6) tressed Plants (D1) (LRR A) in in Remarks) es): es): es): Wetla	4A, and 4B)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes	Selt Crust (B Aquatic Invest Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S igery (B7) Other (Explain urface (B8) No Depth (inchesion) No Depth (inchesion) No Depth (inchesion)	rtebrates (B13) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soils (C6) tressed Plants (D1) (LRR A) in in Remarks) es): es): es): Wetla	4A, and 4B)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes	Selt Crust (B Aquatic Invest Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S igery (B7) Other (Explain urface (B8) No Depth (inchesion) No Depth (inchesion) No Depth (inchesion)	rtebrates (B13) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soils (C6) tressed Plants (D1) (LRR A) in in Remarks) es): es): es): Wetla	4A, and 4B)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) iron Deposits (B5) Surface Soil Cracks (B6) inundation Visible on Aerial Ima Sparsely Vegetated Concave S Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes	Selt Crust (B Aquatic Invest Hydrogen Su Oxidized Rhi Presence of Recent Iron I Stunted or S igery (B7) Other (Explain urface (B8) No Depth (inchesion) No Depth (inchesion) No Depth (inchesion)	rtebrates (B13) Iffide Odor (C1) izospheres along Living Root Reduced Iron (C4) Reduction in Tilled Soils (C6) tressed Plants (D1) (LRR A) in in Remarks) es): es): es): Wetla	4A, and 4B)

Project/Site: JG Mungh	City/County: Mury svilk	Sampling Date: $3 - 9 - 22$ Sampling Point: $D P = 7$
	Section, Township, Range:	
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):	Slope (%):
Subregion (LRR): Let:	Long:	Datum:
Soil Map Unit Name:	NWI class	ification:
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes No (If no, explain i	Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstance:	" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If needed, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transec	ts, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes No
Remarks: abuve	Normal reinfi	, LI	

**VEGETATION – Use scientific names of plants.** 

	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1.				That Are OBL, FACW, or FAC: (A)
2	-		-	Total Number of Dominant
3.	-	-	******	Species Across All Strata:(B)
4				Paravet of Demission Oracing
		= Total Co	ver	Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size:) 1 Jpine de glagie			F-4.	
1. Spine de glussi		-	FAIL	Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3	-			OBL species x 1 =
4.				FACW species x 2 =
5				FAC species x 3 =
		= Total Co	/8/	FACU species x 4 =
Herb Stratum (Plot size:)		-	FAC	UPL species x 5 =
1. Agrests alby	40			Column Totals: (A) (B)
2	-			
3				Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5		· · · ·		Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
9				Wetland Non-Vascular Plants1
10				Problematic Hydrophytic Vegetation' (Explain)
11.				Indicators of hydric soil and wetland hydrology must
		= Total Cov		be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)			<b>Ç</b> i	
1				Hydrophytic
2.				Vegetation
		= Total Cov		Present? Yes No
% Bare Ground in Herb Stratum				
Remarks:				

Sampling Point: _______

(inches)	Matrix	and the second s		Features				
<u></u>	<u>Color (moist)</u>	<u> </u>	Color (moist)	<u>_%</u>	Type'	Loc ²	Texture	Remarks
	1041312							
16	2,54 4/	4				-	Soly	h h
×				******			******	
	. <u>1997 - Anna Indonesia (1997 - 1997)</u>							
-			,			-		
					-		······································	
	ncentration, D=Depl					ed Sand Gr		ocation: PL=Pore Lining, M=Matrix.
ydric Soil In	dicators: (Applica	able to all LRR	is, unless otherv	vise note	d.)		indica	tors for Problematic Hydric Solls ³ :
_ Histosol (	•		Sandy Redox (S	,			2	cm Muck (A10)
	pedon (A2)		Stripped Matrix (	•				ed Parent Material (TF2)
_ Black His	• •		Loamy Mucky Mi			t MLRA 1)	0	ther (Explain in Remarks)
	Sulfide (A4) Below Dark Surface		Loamy Gleyed M Depleted Matrix	• •				
	k Surface (A12)		Depleted Matrix ( Redox Dark Surf	• •			3 India	ators of hydrophytic vegetation and
	icky Mineral (S1)		Depleted Dark S	• •	n			tiand hydrology must be present,
	eyed Matrix (S4)		Redox Depressio	•	•			less disturbed or problematic.
and the second data and the se	iyer (if present):				the state of the second states	**	T	
Туре:								-
Depth (inch	)05):						Hydric Se	oil Present? Yes No
etland Hydr	iY rology Indicators: tors (minimum of or	ne required: chu	ack all that apply)				Sec	condary indicators (2 or more required)
etland Hydr imary Indica _ Surface W	rology Indicators: tors (minimum of or fater (A1)	ne required: chu	ack all that apply) Water-Stain		s (69) (e	xcept MLF		condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
etland Hydr imary Indica _ Surface W	rology Indicators: tors (minimum of or	ne required; chu	Water-Stain		s (89) (e	xcept MLF		condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
etland Hydr imary Indica _ Surface W _ High Wate _ Saturation	rology Indicators: tors (minimum of or /ater (A1) er Table (A2) • (A3)	ne required; chu	Water-Stain	ed Leave and 4B)	s (B9) (e	xcept MLF		Water-Stained Leaves (B9) (MLRA 1, 2,
atland Hydr imary Indica _ Surface W _ High Wate _ Saturation _ Water Mar	rology Indicators: tors (minimum of or fater (A1) er Table (A2) e (A3) rks (B1)	ne required: chu	Water-Stain 1, 2, 4A,	ed Leave and 4B) 311)		xcept MLF		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
etland Hydr imary Indica _ Surface W _ High Wate _ Saturation _ Water Mai _ Sediment	rology Indicators: tors (minimum of or /ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2)	ne required: ch	Water-Stain     1, 2, 4A,     Salt Crust (I     Aquatic Inve     Hydrogen S	ed Leaves and 4B) 311) intebrates ulfide Odd	(B13) x (C1)		×	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
atland Hydr imary Indica _ Surface W _ High Wate _ Saturation _ Water Mar	rology Indicators: tors (minimum of or /ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2)	ne required; chu	Water-Stain 1, 2, 4A, Salt Crust (E Aquatic Inve	ed Leaves and 4B) 311) intebrates ulfide Odd	(B13) x (C1)		×	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
etland Hydr imary Indica _ Surface W _ High Wate _ Saturation _ Water Mai _ Sediment _ Drift Depo _ Algal Mat	tology Indicators: tors (minimum of or fater (A1) er Table (A2) e (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4)	ne reguired; ch	Water-Stain     1, 2, 4A,     Salt Crust (F     Aquatic Inve     Hydrogen S     Oxidized Rh     Presence of	ed Leave and 4B) 311) intebrates ulfide Odo izosphere Reduced	(B13) or (C1) es along i lron (C4	Living Roo	ts (C3)	Water-Stained Leaves (B9) (MiLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
etland Hydr imary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo	rology Indicators: tors (minimum of or fater (A1) er Table (A2) e (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)	ne required; ch	Water-Stain     1, 2, 4A,     Salt Crust (E     Aquatic Inve     Hydrogen S     Oxidized Rh     Presence of     Recent Iron	ed Leave and 48) 311) intebrates ulfide Odd izosphere Reduced Reduction	(B13) or (C1) es along l Iron (C4 n in Tiller	Living Roo I) d Soils (C6	ts (C3)	Water-Stained Leaves (B9) (MiLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
etland Hydr imary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo	rology Indicators: tors (minimum of or fater (A1) er Table (A2) e (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6)		Water-Stain     1, 2, 4A,     Salt Crust (I     Aquatic Inve     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Stunted or S	ed Leaves and 48) 311) intobrates ulfide Odd izospheres Reduced Reduced Stressed F	(B13) or (C1) es along i iron (C4 n in Tiller Plants (D	Living Roo I) d Soils (C6	RA ts (C3)	Water-Stained Leaves (B9) (MiLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
etland Hydr imary Indica _ Surface W _ High Wate _ Saturation _ Water Mar _ Sediment _ Drift Depo _ Algal Mat _ Iron Depo _ Surface Si _ Inundatior	rology Indicators: tors (minimum of or fater (A1) er Table (A2) e (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) e Visible on Aerial In	nagery (B7)	Water-Stain     1, 2, 4A,     Salt Crust (E     Aquatic Inve     Hydrogen S     Oxidized Rh     Presence of     Recent Iron	ed Leaves and 48) 311) intobrates ulfide Odd izospheres Reduced Reduced Stressed F	(B13) or (C1) es along i iron (C4 n in Tiller Plants (D	Living Roo I) d Soils (C6	RA ts (C3)	Water-Stained Leaves (B9) (MILRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
etland Hydr imary Indica _ Surface W _ High Wate _ Saturation _ Water Mar _ Sediment _ Drift Depo _ Algal Mat _ Iron Depo _ Surface Si _ Inundatior _ Sparsely N	rology Indicators: tors (minimum of or /ater (A1) er Table (A2) + (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) + Visible on Aerial In /egetated Concave	nagery (B7)	Water-Stain     1, 2, 4A,     Salt Crust (I     Aquatic Inve     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Stunted or S	ed Leaves and 48) 311) intobrates ulfide Odd izospheres Reduced Reduced Stressed F	(B13) or (C1) es along i iron (C4 n in Tiller Plants (D	Living Roo I) d Soils (C6	RA ts (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
etland Hydr imary Indica _ Surface W _ High Wate _ Saturation _ Water Mai _ Water Mai _ Water Mai _ Sediment _ Drift Depo _ Algal Mat _ Iron Depo _ Surface Si _ Inundation _ Sparsely V eld Observa	tology Indicators: tors (minimum of or fater (A1) er Table (A2) e (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) e Visible on Aerial In /egetated Concave titions:	nagery (B7) Surface (B8)	Water-Stain     1, 2, 4A,     Sall Crust (II     Aquatic Inve     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Stunted or S     Other (Expla	ed Leaver and 48) 311) ortebrates ulfide Odd izosphere Reduced Reduction Stressed F ain in Rem	(B13) or (C1) es along i iron (C4 n in Tiller Plants (D	Living Roo I) d Soils (C6	RA ts (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
etland Hydr imary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Surface Si Inundatior Sparsely V etd Observa	rology Indicators: tors (minimum of or fater (A1) er Table (A2) e (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) e Visible on Aerial In /egetated Concave itions: Present? Ye	nagery (B7) Surface (B6) is No	Water-Stain 1, 2, 4A, Salt Crust (F Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	ed Leaver and 4B) 311) srtebrates ulfide Odo izosphere Reduced Reduction Stressed F ain in Rem	(B13) or (C1) es along i iron (C4 n in Tiller Plants (D	Living Roo I) d Soils (C6	RA ts (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
etland Hydr imary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Surface Si inundatior Sparsely V Eld Observa	rology Indicators: tors (minimum of or fater (A1) er Table (A2) e (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) r Visible on Aerial In /egetated Concave itions: Present? Ye	nagery (B7) Surface (B8) 16 No 15 No	Water-Stain     1, 2, 4A,     Salt Crust (F     Aquatic Inve     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Stunted or S     Other (Exple     Depth (inch     Depth (inch	ed Leave: and 4B) 311) intebrates ulfide Odd izosphere Reduced Reduction Stressed F ain in Rem ess): ress):	(B13) or (C1) es along i iron (C4 n in Tiller Plants (D	Living Roo i) d Soits (C6 1) (LRR A)	RA To (C3) to (C3)  	Water-Stained Leaves (B9) (MiLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
etland Hydr imary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Surface S Inundatior Sparsely V eld Observa Irface Water ater Table Pr ituration Pre	rology Indicators: tors (minimum of or fater (A1) er Table (A2) e (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) r Visible on Aerial In /egetated Concave itions: Present? Ye sent? Ye	nagery (B7) Surface (B8) 16 No 15 No	Water-Stain 1, 2, 4A, Salt Crust (F Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	ed Leave: and 4B) 311) intebrates ulfide Odd izosphere Reduced Reduction Stressed F ain in Rem ess): ress):	(B13) or (C1) es along i iron (C4 n in Tiller Plants (D	Living Roo i) d Soits (C6 1) (LRR A)	RA To (C3) to (C3)  	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
fetland Hydr rimary Indica Surface W Saturation Saturation Sediment Net Depo  	rology Indicators: tors (minimum of or /ater (A1) er Table (A2) e (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) e Visible on Aerial In /egetated Concave ittions: Present? Ye resent? Ye sent? Ye	nagery (B7) Surface (B8) is No is No is No	Water-Stain     1, 2, 4A,     Salt Crust (II     Aquatic Inve     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Stunted or S     Other (Expla      Depth (inch     Depth (inch	ed Leaver and 4B) 311) srtebrates ulfide Odd izosphere Reduction Stressed F ain in Rem (es): (es):	(B13) pr (C1) is along l Iron (C4 n in Tiller Plants (D harks)	Living Roo I) d Soils (C6 1) (LRR A)	ts (C3) ) and Hydrolo	Water-Stained Leaves (B9) (MiLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Vetland Hydr <u>rimary Indica</u> 	rology Indicators: tors (minimum of or fater (A1) er Table (A2) e (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) r Visible on Aerial In /egetated Concave itions: Present? Ye sent? Ye	nagery (B7) Surface (B8) is No is No is No	Water-Stain     1, 2, 4A,     Salt Crust (II     Aquatic Inve     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Stunted or S     Other (Expla      Depth (inch     Depth (inch	ed Leaver and 4B) 311) srtebrates ulfide Odd izosphere Reduction Stressed F ain in Rem (es): (es):	(B13) pr (C1) is along l Iron (C4 n in Tiller Plants (D parks)	Living Roo I) d Soils (C6 1) (LRR A)	ts (C3) ) and Hydrolo	Water-Stained Leaves (B9) (MiLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
rimary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Sparsely V ield Observa urface Water Vater Table Pr aturation Pre- ncludes capil	rology Indicators: tors (minimum of or /ater (A1) er Table (A2) e (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) e Visible on Aerial In /egetated Concave ittions: Present? Ye resent? Ye sent? Ye	nagery (B7) Surface (B8) is No is No is No	Water-Stain     1, 2, 4A,     Salt Crust (II     Aquatic Inve     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Stunted or S     Other (Expla      Depth (inch     Depth (inch	ed Leaver and 4B) 311) srtebrates ulfide Odd izosphere Reduction Stressed F ain in Rem (es): (es):	(B13) pr (C1) is along l Iron (C4 n in Tiller Plants (D parks)	Living Roo I) d Soils (C6 1) (LRR A)	ts (C3) ) and Hydrolo	Water-Stained Leaves (B9) (MiLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Vetland Hydr rimary Indica 	rology Indicators: tors (minimum of or /ater (A1) er Table (A2) e (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) e Visible on Aerial In /egetated Concave ittions: Present? Ye resent? Ye sent? Ye	nagery (B7) Surface (B8) is No is No is No	Water-Stain     1, 2, 4A,     Salt Crust (II     Aquatic Inve     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Stunted or S     Other (Expla      Depth (inch     Depth (inch	ed Leaver and 4B) 311) srtebrates ulfide Odd izosphere Reduction Stressed F ain in Rem (es): (es):	(B13) pr (C1) is along l Iron (C4 n in Tiller Plants (D parks)	Living Roo I) d Soils (C6 1) (LRR A)	ts (C3) ) and Hydrolo	Water-Stained Leaves (B9) (MiLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
lettand Hydr rimary Indica Surface W High Wate Saturation Water Mau Sediment Drift Depo Algal Mat Iron Depo Algal Mat Iron Depo Surface S Inundation Sparsely V eld Observa unface Water ater Table Pre- aturation Pre- icludes capill escribe Reco	rology Indicators: tors (minimum of or /ater (A1) er Table (A2) e (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) e Visible on Aerial In /egetated Concave ittions: Present? Ye resent? Ye sent? Ye	nagery (B7) Surface (B8) is No is No is No	Water-Stain     1, 2, 4A,     Salt Crust (II     Aquatic Inve     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Stunted or S     Other (Expla      Depth (inch     Depth (inch	ed Leaver and 4B) 311) srtebrates ulfide Odd izosphere Reduction Stressed F ain in Rem (es): (es):	(B13) pr (C1) is along l Iron (C4 n in Tiller Plants (D parks)	Living Roo I) d Soils (C6 1) (LRR A)	ts (C3) ) and Hydrolo	Water-Stained Leaves (B9) (MiLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Vetland Hydr rimary Indica Surface W Saturation Saturation Sediment Orift Depo Algal Mat Iron Depo Surface Si Iron Depo Surface Si Iron Depo Surface Si Iron Depo Sparsely V ield Observa urface Water Vater Table Pr aturation Pre- ncludes capili escribe Reco	rology Indicators: tors (minimum of or /ater (A1) er Table (A2) e (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) e Visible on Aerial In /egetated Concave ittions: Present? Ye resent? Ye sent? Ye	nagery (B7) Surface (B8) is No is No is No	Water-Stain     1, 2, 4A,     Salt Crust (II     Aquatic Inve     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Stunted or S     Other (Expla      Depth (inch     Depth (inch	ed Leaver and 4B) 311) srtebrates ulfide Odd izosphere Reduction Stressed F ain in Rem (es): (es):	(B13) pr (C1) is along l Iron (C4 n in Tiller Plants (D parks)	Living Roo I) d Soils (C6 1) (LRR A)	ts (C3) ) and Hydrolo	Water-Stained Leaves (B9) (MiLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)