## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	Aitkin	Sampli	ng Date: 24-Aug-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-51n26w36-a4
Investigator(s): DPT/SMR		Section, T	ownship, Range: S. 31	<b>T.</b> 51N	<b>R.</b> 25W
Landform (hillslope, terrace, etc.):	Mound	Local relief (c	oncave, convex, none):	convex	Slope: <u>1.7</u> % / <u>1.0</u> °
Subregion (LRR or MLRA): LRR K	Lat.:	46 51.7643	<b>Long.:</b> -93	3 34.148	Datum: NAD 83
Soil Map Unit Name: 292		-		WI classification:	N/A
Are climatic/hydrologic conditions of Are Vegetation , Soil Are Vegetation , Soil Summary of Findings - At	, or Hydrology Significan	tly disturbed? problematic?	Are "Normal Circur (If needed, explain	any answers in Re	Yes • No ·
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No No		e Sampled Area n a Wetland? Yes	○ <sub>No</sub> ●	
Remarks: (Explain alternative pro WETS analysis shows precipitation		ort.)			

## Hydrology

Wetland Hydrology Indicators:		
1 57	shock all that apply)	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required;		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes O No O	Depth (inches): 0	
Water Table Present? Yes O No O	Depth (inches):0	drology Present? Yes 🔿 No 🖲
Saturation Present? (includes capillary fringe) Yes O No •	Depth (inches): 0	drology Present? Yes 🔾 No 🖲
Describe Recorded Data (stream gauge, monito	pring well, aerial photos, previous inspections), if ava	illable:
Remarks:		

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

Description       Definition functioner       Definition functioner       Definition functioner         1. Paylax transfoldes       0       Image of the status species       1       (4)         3.       0       Image of the status species       1       (4)         4.       0       Image of the status species       1       (4)         5.       0       Image of the status species       1       (4)         6.       0       Image of the status species       1       (4)         7.       0       Image of the status       5       (6)         7.       0       Image of the status       10       10       (4)         7.       0       Image of the status       10       10       (4)         7.       0       Image of the status       10       10       (4)         7.       0       Image of the status       10       10       (4)         7.       0       Image of the status       10       100       (4)         7.       0       Image of the status       10       100       (4)         7.       0       Image of the status       100       100       (4)         7.       0       Im	vegeration - use scientific names of plai	nts			Sampling Point: u-51n26w36-a4
1. Apputes tremulables       B0       ✓       FACU       FACU       Timber of Dominant Species       1       (A)         2.       0       0       0       1       Table Number of Dominant Species All Stratu:       5       (B)         4.       0       0       0       0       1       Facu       5       (B)         5.       0       0       0       0       1       Facu       5       (B)         6.       0       0       0       0       1       7       (B)       1       1       (A)         5.       0       0       0       1       7       1       (A)       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	(Plot size: 30)				Dominance Test worksheet:
2.       0       0       0       0       0       0       0         3.       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <th></th> <th></th> <th></th> <th></th> <th></th>					
3.       0       0       0       5       6         4.       0       0       0       0       20.025.       (A10)         7.       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0				FACU	That are OBL, FACW, or FAC: (A)
4.       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0					Total Number of Dominant
5       0       0       0       0       0       0       0         6       0       0       0       0       1       1       20.0%       (Mb)         7       0       0       0       0       0       1       1       0       0       1       0       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       0       1       1       0       1       0       1       0       1       0       1       0       1       1       0 <t< th=""><th></th><th></th><th></th><th></th><th>Species Across All Strata:5_ (B)</th></t<>					Species Across All Strata:5_ (B)
3.       0       0       0       1       That Are OBL, FACW, or FAC:       20.0%       (AB)         7.       0       0       0       1       Prevalence Index worksheet:       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       <					Dereent of dominant Species
6.       0       0       Prevalence Index worksheet:         Sapling/Shrub Stratum       (Plot size: 15)       80       = Total Cover         0       0       FACU       FACU species       0       x 1 = 0         2.       0       0       FACU       FACU species       100 x 2 = 20         3.       0       0       FACU species       30 x 3 = 60       FACU species       30 x 4 = -7.50         4.       0       0       0       FACU species       30 x 5 = 150       100         5.       0       0       0       FACU species       30 x 5 = 150       100         7.       0       0       0       FACU species       30 x 5 = 150       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100 <th></th> <th></th> <th></th> <th></th> <th></th>					
Septina/Strub Stratum       (Plot size: 15)       00 = = Total Cover       Total % Cover of:       Multiply by:         1.       Corylia conuta       0					
Sapling/Shrub Stratum       (Pot size: 15 )       )       0       PACU       FACU       Species       0       x 2 = 20         3.       0       0       PACU       Species       10       x 2 = 20         3.       0       0       FACU       Species       10       x 2 = 20         FAC       Species       10       x 2 = 20       FACU       Species       10       x 2 = 20         4.       0       0       Prevalence       30       x 5 = 150       UPL species       30       x 5 = 150         6.       0       0       Prevalence Index = B/A = _3.923       Prevalence Index = B/A = _3.923       Prevalence Index = B/A = _3.923         1.       Toxicodendron radicans       30       Y       FACU       Prevalence Index is 5.0.1         1.       Toxicodendron radicans       30       Y       FACU       Prevalence Index is 5.0.1         3.       Aubes hisplais       10       FACU       Prevalence Index is 5.0.1       Prevalence Index is 5.0.1         6.       0       Prevalence Index is 5.0.1       Provide supporting data in Remarks or on a separate sheet)       Prevalence Index is 5.0.1       Prevalence Index is 5.0.1         7.       0       Prevalencody plants, Sin (7.6 cm) or more in diameter	7				
1. Corylia conuta       80       ✓       FACU       FACU </th <th>Sapling/Shrub Stratum (Plot size: 15 )</th> <th>80 =</th> <th>Total Cover</th> <th></th> <th></th>	Sapling/Shrub Stratum (Plot size: 15 )	80 =	Total Cover		
2		80		FACU	
3.       0       0       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1					
4.       0               PAUD species       30       X 4 = 100         5.       0               UPL species       30       X 4 = 100         6.       0               UPL species       30       X 4 = 100         7.       0               Prevalence Index = B/A = 3.923       (A) 1020       (B)         Herb Stratum (Plot size: 5       )       80       = Total Cover               Hydrophytic Vegetation Indicators:         1.       Toulcodendron radicans       30       V       FAC               Dominance Test is > 50%         2.       Arbits hispidas       10               FACW               Dominance Test is > 50%         3.       Rizes hispidas       10               FACW               Prevalence Index is \$3.0 <sup>1</sup> 4.       0               Indicators of hydric vegetation 1               Indicators 1 (Provide supporting data in Rearks or on a separate sheet)                 5.       0                       Indicators of hydric vegetation 1 (Explain)               Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.               Definitions of Vegetation Strata:                       Definitions of Vegetation Strata:					
Image: Second Stratum       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0					FACU species x 4 =760
6.       0       0       0       1020       (€)         7.       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <td< th=""><th></th><th></th><th></th><th></th><th>UPL species30 x 5 =150</th></td<>					UPL species30 x 5 =150
7.       0       Prevalence Index = B/A =3.923         Herb Stratum (Plot size: 5       00       = Total Cover         1.       Toxicodendron radicans       30       Y       FAC         2.       Aralis nudicaulis       30       Y       FAC         3.       10       FACU       Dominance Test is > 50%         4.       Eurybia macrophylia       30       Y       Prevalence Index is ≤3.0 1         5.       0       IP       Prevalence Index is ≤3.0 1       Dominance Test is > 50%         6.       0       IP       Prevalence Index is ≤3.0 1       Derivalence index is ≤3.0 1         6.       0       IP       Prevalence Index is ≤3.0 1       Derivalence index is ≤3.0 1         7.       0       IP       Prevalence index is ≤3.0 1       Derivalence index is ≤3.0 1         6.       0       IP       Problematic Hydrophytic Vegetation 1 (Explain)         7.       0       Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         9.       0       Indicator is 3.0 (7.6 cm) or more in diameter at threast height (DBH), regardless of height.         11.       0       Indicatore in 3.28 (ft (Im) tall         12.       0       Inditan 2.28 (ft (Im) tall <t< th=""><th></th><th></th><th></th><th></th><th>Column Totals:(A)(B)</th></t<>					Column Totals:(A)(B)
Herb Stratum       (Plot size: 5 )       80       = Total Cover       Hydrophytic Vegetation Indicators:         1. Toxicodendron radicans       30       V       FAC         2. Araila nudicaulis       30       V       FACU         3. Rubus hispidus       10       FACU         4. Eurybis macrophylia       30       V       FACU         5.       0       FACU       Prevalence Index is 53.0 <sup>1</sup> 6.       0       -       -         7.       0       -       FACU         9.       0       -       -         10.       0       -       -         11.       0       -       -         9.       0       -       -         10.       0       -       -         11.       0       -       -         12.       0       -       -         0.       -       -       -         12.       0       -       -         12.       0       -       -         12.       0       -       -         13.       0       -       -         14.       0       -					Provalance Index = P/A = 2.022
Herb Stratum       (Plot size: 5)			- Total Cover		
1. Tackcodendron radikans       30       ✓       FAC       Dominance Test is > 50%         2. Aralle nudicaulis       30       ✓       FACU       Prevalence Index is ≤3.0 <sup>1</sup> 3. Rubus hispidus       10       FACW       Prevalence Index is ≤3.0 <sup>1</sup> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)         5.       0       0       Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         6.       0       0       1       Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         8.       0       0       0       1       Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         9.       0       0       0       0       1       Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         10.       0       0       0       1       Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         11.       0       0       1       Sapling/Shrub · Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         12.       0       100       = Total Cover       Sapling/Shrub · Woody plants less than 3.28 ft tall.         14.       0       0       1       Wood	Herb Stratum (Plot size: 5 )	80 -			
2. Aralia nudicaulis       30       ✓       FACU       Dominance lest is > 50%         3. Rubus hispidus       10       FACW       Prevalence Index is > 50%         4. Eurybia macrophylla       30       ✓       Prevalence Index is > 50%         5.       0       Prevalence Index is > 50%       Prevalence Index is > 50%         6.       0       Prevalence Index is > 50%       Prevalence Index is > 50%         7.       0       Prevalence Index is > 50%       Prevalence Index is > 50%         8.       0       Problematic Hydrophytic Vegetation 1 (Explain)         1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.       Definitions of Vegetation Strata:         9.       0       Prevalence Noody plants, in (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         12.       0       Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.         4.       0       Preval         0       Sapling/shrub - All woody vines greater than 3.28 ft in height.         3.       0       Preval         4.       0       Preval         0       Preval       Preval         10.       Preval       Preval         11.       Preval       Preval <th>1 Toxicodendron radicans</th> <th>30</th> <th><math>\checkmark</math></th> <th>FAC</th> <th></th>	1 Toxicodendron radicans	30	$\checkmark$	FAC	
3. Rubus hispidus       10       FACW       Prevalence Index is \$3.0 <sup>-1</sup> 4. Eurybia macrophylla       30       V       UPL         5.       0       Image: Construction of the system of the	• •				
4. Euryble macrophylla       30       UPL       Improvide supporting data in Remarks or on a separate sheet)         5.       0       0       Improvide supporting data in Remarks or on a separate sheet)         6.       0       0       Improvide supporting data in Remarks or on a separate sheet)         7.       0       0       Improvide supporting data in Remarks or on a separate sheet)         9.       0       Improvide supporting data in Remarks or on a separate sheet)         9.       0       Improvide supporting data in Remarks or on a separate sheet)         9.       0       Improvide supporting data in Remarks or on a separate sheet)         9.       0       Improvide supporting data in Remarks or on a separate sheet)         9.       0       Improvide supporting data in Remarks or on a separate sheet)         9.       0       Improvide supporting data in Remarks or on a separate sheet)         9.       0       Improvide supporting data in Remarks or on a separate sheet)         11.       0       Improvide supporting data in Remarks or on a separate sheet)         12.       0       Improvide supporting data in Remarks or on a separate sheet)         13.       0       Improvide supporting data in Remarks or on a separate sheet)         14.       0       Improvide supporting data in Remarks or on a separate sheet)		10		FACW	
5.       0       0       Problematic Hydrophytic Vegetation 1 (Explain)         6.       0       0       1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         9.       0       0       Definitions of Vegetation Strata:         10.       0       0       Definitions of Vegetation Strata:         11.       0       0       Tree · Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         12.       0       Sapling/Shrub · Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall         14.       0       Herb · All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         3.       0       Herb · All woody vines greater than 3.28 ft in height.         4.       0       Hydrophytic Vegetation Present?         Yes       No •	A Funchia magraphulla	20		UPL	
6.       0       0       1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         8.       0       0       0       Definitions of Vegetation Strata:         10.       0       0       0       Definitions of Vegetation Strata:         11.       0       0       0       Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         12.       0       0       Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall         14.       0       0       0       Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         3.       0       0       0       Herb - All woody vines greater than 3.28 ft in height.         4.       0       0       Hydrophytic Yes       No ●					
7.       0       1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         8.       0       0       Definitions of Vegetation Strata:         10.       0       0       Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         11.       0       0       Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall         12.       0       0       Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         13.       0       0       Herb - All woody vines greater than 3.28 ft in height.         4.       0       Hydrophytic Vine Stratum (Plot size: 30       Yes No (*)					
8.       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
9.       0       0       Definitions of Vegetation Strata:         10.       0       0       Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         11.       0       0       Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall         12.       0       0       Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.         3.       0       0       Herb - All woody vines greater than 3.28 ft tall.         4.       0       Hydrophytic         0       Total Cover       Hydrophytic         Yes       No (*)					be present, unless disturbed or problematic.
10.       0       0       Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         11.       0       0       at breast height (DBH), regardless of height.         12.       0       0       at breast height (DBH), regardless of height.         12.       0       0       at breast height (DBH), regardless of height.         12.       0       0       at breast height (DBH), regardless of height.         14.       0       0       at breast height (1m) tall         15.       0       0       at breast height (1m) tall         16.       0       0       at woody plants less than 3.28 ft tall.         17.       0       0       at woody plants less than 3.28 ft tall.         18.       0       0       at woody plants less than 3.28 ft tall.         19.       0       0       at woody plants less than 3.28 ft tall.         19.       0       at woody vine - All woody vines greater than 3.28 ft in height.         10.       at woody plants less than 3.28 ft in height.       height.         19.       at woody vines greater than 3.28 ft in height.       height.         19.       at woody vines greater than 3.28 ft in height.       height.         10.       at woody woody plants less than 3.					Definitions of Vegetation Strata:
11.       0					
12.       0					
Woody Vine Stratum (Plot size: 30 )       100 = Total Cover       Generation of the size					
Woody Vine Stratum (Plot size: 30 )			= Total Cover		
2. 0   3. 0   4. 0   Size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes No ●	_Woody Vine Stratum (Plot size: 30 )				greater than 5.26 ft (111) tall
2.       0       0       0         3.       0       0       0       0         4.       0       = Total Cover       Woody vine - All woody vines greater than 3.28 ft in height.         Hydrophytic       Vegetation       Vegetation         Present?       Yes O       No •	1	0			
4 0 = Total Cover Hydrophytic Vegetation Present? Yes No •	2	0			size, and woody plants less than 3.28 ft tall.
0 = Total Cover Hydrophytic Vegetation Present? Yes ○ No ●	3	0			Woody vine - All woody vines greater than 3.28 ft in
Hydrophytic Vegetation Present? Yes O No O	4	0			height.
Vegetation Present? Yes O No ()		0 =	Total Cover		
Vegetation Present? Yes O No ()					
Vegetation Present? Yes O No ()					
Vegetation Present? Yes O No ()					
Present? Yes Voo					Vegetation
Remarks: (Include photo numbers here or on a separate sheet.)					
Remarks: (Include photo numbers here or on a separate sheet.)					
	Remarks: (Include photo numbers here or on a separate she	et.)			

\* Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

US Army Corps of Engineers

Depth		Matrix				dox Featu			absence of indicators.)	
(inches)	Color (		%	Color (	(moist)	<u>%</u>	Type	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR	2/2	100						Loam	
6-16	10YR	4/3	95	10YR	4/6	5	C	M	Sandy Loam	
16-20		4/2	90		4/6	10	C		Loamy Sand	-
10 20										
				-			-			<u>.</u>
								·		
								·		
		-								
vpe: C=Conc	centration D	=Depletic	n RM=Redr	uced Matrix	CS=Cover	ed or Coate	ed Sand G	ains <sup>2</sup> l oca	ation: PL=Pore Lining. M=N	Aatrix
ydric Soil I		Bopletie			00-00101				0	
Histosol (A				Polv	value Belo	w Surface	(S8) (I RR	R		ematic Hydric Soils : <sup>3</sup>
-	bedon (A2)			MLR	A 149B)		(00) (2:	,		(LRR K, L, MLRA 149B)
Black Histi				🗌 Thin	Dark Surf	ace (S9) (	lrr r, ml	RA 149B)		ox (A16) (LRR K, L, R)
7	Sulfide (A4)			🗌 Loar	ny Mucky	Mineral (F1	) LRR K, L	)		or Peat (S3) (LRR K, L, R)
	Layers (A5)			🗌 Loar	ny Gleyed	Matrix (F2)	)		Dark Surface (S7)	
	Below Dark S	Surface (A	.11)	🗌 Dep	leted Matri	x (F3)				Surface (S8) (LRR K, L)
-	k Surface (A1		,	Red	ox Dark Su	irface (F6)			Thin Dark Surface	
		,							Iron-Manganese M	Masses (F12) (LRR K, L, R)
-	ck Mineral (S	(1)			leted Dark	Surface (F	7)			
Sandy Mu	ck Mineral (S				leted Dark ox Depress		7)		Piedmont Floodpla	ain Soils (F19) (MLRA 149B)
Sandy Mu	yed Matrix (S						7)		Piedmont Floodpla	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B)
Sandy Mue Sandy Gle Sandy Rec	eyed Matrix (S dox (S5)						7)		Piedmont Floodpla  Mesic Spodic (TAG Red Parent Materi	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21)
Sandy Mue Sandy Gle Sandy Rec Stripped M	eyed Matrix (S dox (S5) Matrix (S6)	S4)	\ 149B)				7)		Piedmont Floodpla     Mesic Spodic (TAC     Red Parent Materi     Very Shallow Dark	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12)
Sandy Mux         Sandy Gle         Sandy Rec         Stripped M         Dark Surfa	eyed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF	S4) R R, MLRA		Rede	ox Depress	sions (F8)			Piedmont Floodpla     Mesic Spodic (TAC     Red Parent Materi     Very Shallow Dark     Other (Explain in	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12)
Sandy Mug         Sandy Gle         Sandy Rec         Stripped M         Dark Surfa         Indicators of	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TAC     Red Parent Materi     Very Shallow Dark     Other (Explain in	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12)
Sandy Mud         Sandy Gle         Sandy Rec         Stripped M         Dark Surfa         Indicators of	eyed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TAC     Red Parent Materi     Very Shallow Dark     Other (Explain in	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12)
Sandy Mud         Sandy Gle         Sandy Rec         Stripped M         Dark Surfa         Indicators of         Estrictive La         Type:	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic ayer (if obso	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TA6     Red Parent Materi     Very Shallow Dark     Other (Explain in ematic.	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12) Remarks)
Sandy Mug         Sandy Gle         Sandy Rec         Stripped M         Dark Surfa         ndicators of	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic ayer (if obso	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TAC     Red Parent Materi     Very Shallow Dark     Other (Explain in	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12)
Sandy Mud         Sandy Gle         Sandy Rec         Stripped M         Dark Surfa         ndicators of         strictive La         Type:         Depth (inch	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic ayer (if obso	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TA6     Red Parent Materi     Very Shallow Dark     Other (Explain in ematic.	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12) Remarks)
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Sandy Muc Sandy Gle Sandy Rec Stripped M Dark Surfa ndicators of strictive La Type: Depth (inch	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic ayer (if obso	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TA6     Red Parent Materi     Very Shallow Dark     Other (Explain in ematic.	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12) Remarks)
Sandy Muc Sandy Gle Sandy Rec Stripped M Dark Surfa ndicators of strictive La Type: Depth (inch	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic ayer (if obso	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TA6     Red Parent Materi     Very Shallow Dark     Other (Explain in ematic.	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12) Remarks)
Sandy Muc Sandy Gle Sandy Rec Stripped M Dark Surfa ndicators of strictive La Type: Depth (inch	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic ayer (if obso	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TA6     Red Parent Materi     Very Shallow Dark     Other (Explain in ematic.	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12) Remarks)
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Sandy Mud Sandy Gle Sandy Red Stripped M Dark Surfa ndicators of strictive La Type: Depth (inch	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic ayer (if obso	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TA6     Red Parent Materi     Very Shallow Dark     Other (Explain in ematic.	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12) Remarks)
Sandy Mua         Sandy Gle         Sandy Rec         Stripped M         Dark Surfa         ndicators of         strictive La         Type:         Depth (inch	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic ayer (if obso	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TA6     Red Parent Materi     Very Shallow Dark     Other (Explain in ematic.	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12) Remarks)
Sandy Mud         Sandy Gle         Sandy Rec         Stripped M         Dark Surfa         ndicators of         strictive La         Type:         Depth (inch	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic ayer (if obso	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TA6     Red Parent Materi     Very Shallow Dark     Other (Explain in lematic.	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12) Remarks)
Sandy Mud         Sandy Gle         Sandy Rec         Stripped M         Dark Surfa         Indicators of         estrictive La         Type:         Depth (inch	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic ayer (if obso	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TA6     Red Parent Materi     Very Shallow Dark     Other (Explain in lematic.	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12) Remarks)
Sandy Mud         Sandy Gle         Sandy Rec         Stripped M         Dark Surfa         Indicators of         Estrictive La         Type:	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic ayer (if obso	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TA6     Red Parent Materi     Very Shallow Dark     Other (Explain in lematic.	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12) Remarks)
Sandy Mud         Sandy Gle         Sandy Rec         Stripped M         Dark Surfa         Indicators of         estrictive La         Type:         Depth (inch	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic ayer (if obso	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TA6     Red Parent Materi     Very Shallow Dark     Other (Explain in lematic.	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12) Remarks)
Sandy Mua         Sandy Gle         Sandy Rec         Stripped M         Dark Surfa         ndicators of         strictive La         Type:         Depth (inch)	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic ayer (if obso	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TA6     Red Parent Materi     Very Shallow Dark     Other (Explain in lematic.	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12) Remarks)
Sandy Mua         Sandy Gle         Sandy Rec         Stripped M         Dark Surfa         ndicators of         strictive La         Type:         Depth (inch)	yed Matrix (S dox (S5) Matrix (S6) ace (S7) (LRF hydrophytic ayer (if obso	S4) R R, MLR <i>I</i> vegetatic		Rede	ox Depress	sions (F8)		bed or probl	Piedmont Floodpla     Mesic Spodic (TA6     Red Parent Materi     Very Shallow Dark     Other (Explain in lematic.	ain Soils (F19) (MLRA 149B) 5) (MLRA 144A, 145, 149B) ial (F21) < Surface (TF12) Remarks)