## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	St. Louis	Sampli	ng Date: 12-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-51n20w27-b2
Investigator(s): PJK		Section, 1	Township, Range: S. 2	7 <b>T.</b> 51N	<b>R.</b> 20W
Landform (hillslope, terrace, etc.):	Mound	Local relief (	concave, convex, none)	convex	Slope: <u>3.5</u> % / <u>2.0</u>
Subregion (LRR or MLRA): LRR K	Lat.:	46 52.4524	Long.: -	92 51.8796	Datum: NAD 83
Soil Map Unit Name: B127B				NWI classification:	N/A
Are Vegetation , Soil , Soil , Are Vegetation , Soil , Soil , Summary of Findings - Att	, or Hydrology 🗌 naturally	tly disturbed? problematic? sampling p	(If needed, expla	umstances" present? in any answers in Re ransects, impo	emarks.)
Hydric Soil Present? Wetland Hydrology Present?	Yes ○ No ● Yes ○ No ●		ne Sampled Area nin a Wetland? Ye	/es $\bigcirc$ No $oldsymbol{igodol}$	
Remarks: (Explain alternative proc No digging, potential buried utilitie		-	on. Recently hayed field	I.	

## Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required	: check all that apply)	Secondary Indicators (Infinitian of 2 required)
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)		Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
	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 •	Depth (inches): 0	
Water Table Present? Yes O No 🖲	Depth (inches): 0	drology Present? Yes 🔿 No 🖲
Saturation Present? Yes O No O	Depth (inches):0	drology Present? Yes 🔾 No 🖲
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, previous inspections), if ava	ailable:
Remarks:		

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

VEGETATION - Ose scientific names of pla	iits			Sampling Point: u-51n20w27-b2
	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3	0			Species Across All Strata: <u>3</u> (B)
4				
5	0			Percent of dominant Species That Are OBL, FACW, or FAC:0.0%(A/B)
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )	0 =	Total Cover		Total % Cover of: Multiply by:
	0			OBL species x 1 =
1				FACW species X 2 =20
2				FAC species x 3 =
3	_			FACU species x 4 = 360
4				UPL species x 5 =0
5				Column Totals:(A)(B)
67				
7		Total Cover		Prevalence Index = B/A = <u>3.800</u>
Herb Stratum (Plot size: 5)				Hydrophytic Vegetation Indicators:
1. Poa pratensis	30	$\checkmark$	FACU	Rapid Test for Hydrophytic Vegetation
2. Trifolium pratense			FACU	Dominance Test is > 50%
3. Taraxacum officinale			FACU	Prevalence Index is $\leq$ 3.0 <sup>1</sup>
			FACU	Morphological Adaptations <sup>1</sup> (Provide supporting
			FACW	data in Remarks or on a separate sheet)
5.     Praiaris arundinacea       6.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10				
11				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12				
12		Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: <u>30</u> )				greater than 3.28 ft (1m) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	Total Cover		
				Hydrophytic Vegetation
				Present? Yes No •
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

Color (moist)       %       Color (moist)       %       Type       Loc2       Texture       Remarks         Image: Strate in the strat	(inches)	Matrix		Red	ox Features			
Tydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric Soils: <sup>3</sup> Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1) LRR K, L)       5 cm Muck (A10) (LRR K, L, R)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L, M)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Dolyvalue Below Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Redox Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L, R)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Red ox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes       No          Type:	(inches)		%			Loc <sup>2</sup>	Texture	Remarks
Hydric Soil Indicators:       Indic								
Tydric Soil Indicators:       Indicators:       Indicators for Problematic Hydric Soils: <sup>3</sup> Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1) LRR K, L)       5 cm Muck (A10) (LRR K, L, R)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L, M)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Dolyvalue Below Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Redox Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L, R)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Red ox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes       No          Type:								
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils: <sup>3</sup> Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       Indicators for Problematic Hydric Soils: <sup>3</sup> Histosol (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A10) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1) LRR K, L)       S cm Muck (A10) (LRR K, L, R)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Doark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Redox Dark Surface (F7)       Diedematrix G10         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Red ox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         Bridicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes       No          Type:				·				
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils: <sup>3</sup> Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       Indicators for Problematic Hydric Soils: <sup>3</sup> Histo Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A10) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1) LRR K, L)       S cm Muck yeat or Peat (S3) (LRR K, L, R)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Dolyvalue Below Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Redox Dark Surface (F7)       Diedematr Surface (S9) (LRR K, L, R)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Red ox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Red Parent Material (F21)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes       No          Type:       Depth (inches):       Piety in Coil Present?       Yes       No								
Hydric Soil Indicators:       Indic								
Hydric Soil Indicators:       Indic								
Hydric Soil Indicators:       Indic								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils: <sup>3</sup> Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S6)       Redox Depressions (F8)         Strighted Matrix (S6)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Other (Explain in Remarks)         31ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes         Type:								
Hydric Soil Indicators:       Indic								
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils: <sup>3</sup> Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       Indicators for Problematic Hydric Soils: <sup>3</sup> Histo Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A10) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1) LRR K, L)       S cm Muck yeat or Peat (S3) (LRR K, L, R)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Dolyvalue Below Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Redox Dark Surface (F7)       Diedematr Surface (S9) (LRR K, L, R)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Red ox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Red Parent Material (F21)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes       No          Type:       Depth (inches):       Piety in Coil Present?       Yes       No				. <u></u>				
Hydric Soil Indicators:       Indic								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils: <sup>3</sup> Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thic Dark Surface (A12)       Redox Dark Surface (F7)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Redox Depressions (F8)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes       No         Type:								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils: <sup>3</sup> Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Werks Cartace (S7) (LRR R, MLRA 149B)         Strittive Layer (if observed):       Very Shallow Dark Surface (TF12)         Type:       Dept (inches):         Dept (inches):       Murka 149B								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils: <sup>3</sup> Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thic Dark Surface (A12)       Redox Dark Surface (F7)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Redox Depressions (F8)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes       No         Type:								
Hydric Soil Indicators:       Indicators:       Indicators:       Indicators for Problematic Hydric Soils: <sup>3</sup> Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       Indicators for Problematic Hydric Soils: <sup>3</sup> Histo Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A10) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1) LRR K, L)       S cm Muck yeat or Peat (S3) (LRR K, L, R)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Dolyvalue Below Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Redox Dark Surface (F7)       Diedematr Surface (S9) (LRR K, L, R)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Red ox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Red Parent Material (F21)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes       No          Type:       Depth (inches):       Piety in Coil Present?       Yes       No								
Hydric Soil Indicators:       Indic								
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histo Epipedon (A2)       Inhin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Inhin Dark Surface (S9) (LRR R, MLRA 149B)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       No Image: Stripped Matrix (S6)         Dark Surface (S7) (LRR R, MLRA 149B)       Metric Soil Present? Yes No Image: Stripped Matrix (S6)         Depleted Dark Surface (S7) (LRR R, MLRA 149B)       Metric Soil Present? Yes No Image: Stripped Matrix (S6)         Dark Surface (S7) (LRR R, MLRA 149B)       Metric Soil Present? Yes No Image: Stripped Matrix (S6)         Depleted Dark Surface (S7) (LRR R, MLRA 149B)       Metric Soil Present? Yes No Image: Stripped Matrix (S6)         Depleted Soil Present?       Yes No Image: Stripped			. RM=Redu	uced Matrix, CS=Covere	d or Coated Sand Gra	ins <sup>2</sup> Locati	ion: PL=Pore Lining. M=Ma	atrix
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1) LRR K, L)       Dark Surface (S7) (LRR K, L, M)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (S8) (LRR K, L)         Thick Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (F7)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Redox (S5)       Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 1448, 145, 149B)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         Brinciators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Very Shallow Dark Surface (TF12)         Type:	lydric Soil Ir	ndicators:					Indicators for Proble	matic Hydric Soils : <sup>3</sup>
Histic Epipedon (A2)       MIRA (149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thin Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Other (Explain in Remarks)         alindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:         Type:	Histosol (A	1)		Polyvalue Below	/ Surface (S8) (LRR R	,		
Black Histic (A3)       Imm Dark Surface (S9) (LRR K, MLRA 1495)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1) LRR K, L)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Stripped Matrix (S6)       Wers CS7) (LRR R, MLRA 1498)         Other (Explain in Remarks)       Other (Explain in Remarks)         afidicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         type:       Type:         Type:       Hydric Soil Present?         Yes       No •	Histic Epipe	edon (A2)		•				· · ·
Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F1)       Dark Surface (S7) (LRR K, L, M)         Stratified Layers (A5)       Loamy Gleyed Matrix (F2)       Polyvalue Below Surface (S8) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Redox Dark Surface (F7)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         3 <sup>1</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Hydric Soil Present?       Yes       No          Type:	Black Histic	c (A3)				A 149B)		
Stratified Layers (A5)       Loanity Gleyed Matrix (F2)       Polyvalue Below Surface (S8) (LRR K, L)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Redox Dark Surface (F6)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Other (Explain in Remarks)         Type:	Hydrogen S	Sulfide (A4)						
Depleted Below Dark Surface (A11)       Depleted Matrix (r-3)       Thin Dark Surface (A12)       Thin Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Muck Mineral (S1)       Depleted Dark Surface (F7)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Red Parent Material (F21)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         and icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Hydric Soil Present?       Yes       No         Type:	Stratified L	ayers (A5)		Loamy Gleyed N	Aatrix (F2)			
Thick Dark Surface (A12) Redox Dark Surface (F6)   Sandy Muck Mineral (S1) Depleted Dark Surface (F7)   Sandy Gleyed Matrix (S4) Redox Depressions (F8)   Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)   Stripped Matrix (S6) Red Parent Material (F21)   Dark Surface (S7) (LRR R, MLRA 149B)   Andricators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. <b>estrictive Layer (if observed):</b> Type:   Type:   Depth (inches): <b>Hydric Soil Present?</b> Yes   No Image: Semarks:			1)	Depleted Matrix	(F3)			
Sandy Muck Mineral (S1) Depleted Dark Surface (F7)   Sandy Gleyed Matrix (S4) Redox Depressions (F8)   Sandy Redox (S5) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)   Stripped Matrix (S6) Very Shallow Dark Surface (TF12)   Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)	_			Redox Dark Sur	face (F6)			
Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Heumont Hoodplain Solis (FP) (MLRA 144B)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:         Depth (inches):         Remarks:				Depleted Dark S	Surface (F7)			
Sandy Redox (S5)       Intest Spoul (TAO) (WLKA T44A, T45, T45B)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:         Depth (inches):         Merce Soil Present?         Yes         No         Remarks:	-			Redox Depressi	ons (F8)			
Stripped Matrix (S6)   Dark Surface (S7) (LRR R, MLRA 149B)   3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   Restrictive Layer (if observed):   Type:   Depth (inches):   Remarks:								
Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Hydric Soil Present? Yes No •         Depth (inches):       Yes No •	-							
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type: Depth (inches): Remarks:  Hydric Soil Present? Yes O No O			(00)				Very Shallow Dark	Surface (TF12)
Restrictive Layer (if observed):       Type:       Hydric Soil Present?       Yes O       No O         Depth (inches):		ce (S7) (LRR R, MLRA 1	149B)				Other (Explain in R	emarks)
Restrictive Layer (if observed):       Type:       Hydric Soil Present?       Yes O       No O         Depth (inches):	Dark Surfa		and wetla	nd hydrology must be pr	resent, unless disturb	ed or probler	matic.	
Type:		hydrophytic vegetation						
Depth (inches):     Hydric Soil Present?     Yes     No       Remarks:     Kenter     Kenter     Kenter	<sup>3</sup> Indicators of I							
Remarks:	<sup>3</sup> Indicators of I Restrictive La							
	<sup>3</sup> Indicators of I Restrictive La Type:	yer (if observed):					Hvdric Soil Present?	
o digging potential buried utilities. soils assumed non-hydric based on vegetation and hydrology.	<sup>3</sup> Indicators of I Restrictive La Type:	yer (if observed):					Hydric Soil Present?	Yes 🔿 No 🖲
	<sup>3</sup> Indicators of I Restrictive La Type: Depth (inche	yer (if observed):					Hydric Soil Present?	Yes 🔿 No 🖲
	<sup>3</sup> Indicators of I estrictive La Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No O
	<sup>3</sup> Indicators of I <b>Restrictive La</b> Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No 🖲
	<sup>3</sup> Indicators of I estrictive La Type: Depth (inch Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No 🖲
	<sup>3</sup> Indicators of I estrictive La Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No 🖲
	<sup>3</sup> Indicators of I <b>Restrictive La</b> Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No 🖲
	<sup>3</sup> Indicators of I estrictive La Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No O
	<sup>3</sup> Indicators of I <b>Restrictive La</b> Type: Depth (inche Remarks:	yer (if observed):		ssumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No O
	<sup>3</sup> Indicators of I estrictive La Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No O
	<sup>3</sup> Indicators of I <b>Restrictive La</b> Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No O
	<sup>3</sup> Indicators of I estrictive La Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No O
	<sup>3</sup> Indicators of I <b>Restrictive La</b> Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No O
	<sup>3</sup> Indicators of I Restrictive La Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No O
	<sup>3</sup> Indicators of I Restrictive La Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No O
	<sup>3</sup> Indicators of I Restrictive La Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No O
	<sup>3</sup> Indicators of I Restrictive La Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No O
	<sup>3</sup> Indicators of I Restrictive La Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No O
	<sup>3</sup> Indicators of I estrictive La Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No O
	<sup>3</sup> Indicators of I estrictive La Type: Depth (inche Remarks:	yer (if observed):		sumed non-hydric ba	ased on vegetation	and hydrol	•	Yes O No O