## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 14-Sep-17
Applicant/Owner: Enbridge	State:	MN Sampling Point: u-50n19w21-c1
Investigator(s): DPT	Section, Township, Rang	ge: S. 21 T. 50N R. 19W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, conver	
Subregion (LRR or MLRA): LRR K	Lat.: 46 48.4085 L	ong.: -92 45.3073
Soil Map Unit Name: F33A		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical for this tin	ne of year? Yes  No	(If no, explain in Remarks.)
	•	mal Circumstances" present? Yes  No
	-	ed, explain any answers in Remarks.)
Summary of Findings - Attach site map show	•	
Hydrophytic Vegetation Present? Yes No •		· · · · · · · · · · · · · · · · · · ·
Hydric Soil Present? Yes ○ No •	Is the Sampled Area within a Wetland?	a Yes ○ No •
Wetland Hydrology Present? Yes ○ No •	within a wetiant?	100 0 110 0
Remarks: (Explain alternative procedures here or in a separat	ro ronart )	
Hydrology  Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that a	pply)	Surface Soil Cracks (B6)
	ned Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)  Aquatic Fat		Moss Trim Lines (B16)
☐ Saturation (A3) ☐ Marl Depos ☐ Water Marks (B1) ☐ Hydrogen 9		Dry Season Water Table (C2)
	Sulfide Odor (C1) hizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9)
	f Reduced Iron (C4)	Stunted or Stressed Plants (D1)
	n Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
	Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Exp	lain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-neutral Test (D5)
Field Observations:		
·	ches):0	
Water Table Present? Yes O No O Depth (in	ches):0	w () w ()
Saturation Present? (includes capillary fringe) Yes No   Depth (in		lydrology Present? Yes O No 💿
Describe Recorded Data (stream gauge, monitoring well, aeria	I photos, previous inspections), if a	vailable:
Remarks:		

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

VEGETATION - USE Scientific fiames of pia	ants			Sampling Point: u-50n19w21-c1					
(N	Absolute		Indicator	Dominance Test worksheet:					
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species					
1				That are OBL, FACW, or FAC:					
2				Total Number of Dominant					
3				Species Across All Strata:4(B)					
4				Dercent of deminent Charles					
5				Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)					
6									
7				Prevalence Index worksheet:					
Sapling/Shrub Stratum (Plot size: 15 )		= Total Cover		Total % Cover of: Multiply by:					
1	0			0BL speci es 0 x 1 = 0					
2				FACW species					
3				FAC speci es x 3 =0					
4				FACU speci es 100 x 4 = 400					
5				UPL speci es $0 \times 5 = 0$					
6				Column Total s:100 (A)400 (B)					
7				Prevalence Index = B/A = 4.000					
		Total Cover		Hydrophytic Vegetation Indicators:					
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation					
1 _ Lotus corniculatus	20	✓	FACU	Dominance Test is > 50%					
2. Tanacetum vulgare	30	<b>✓</b>	FACU	Prevalence Index is ≤3.0 ¹					
3. Poa pratensis	10		FACU	Morphological Adaptations <sup>1</sup> (Provide supporting					
4. Phleum pratense	20	<b>✓</b>	FACU	data in Remarks or on a separate sheet)					
5. Cirsium arvense	20	<b>~</b>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)					
6	0								
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
8	0								
9	0			Definitions of Vegetation Strata:					
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter					
l1	0			at breast height (DBH), regardless of height.					
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and					
(Plot size: 30	100 =	Total Cover		greater than 3.28 ft (1m) tall					
Woody Vine Stratum (Plot size: 30 )	0			Llark All banks assure (see a week) along to respect to a					
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.					
2									
3				Woody vine - All woody vines greater than 3.28 ft in					
4				height.					
		= Total Cover							
				Hydrophytic					
				Vegetation Present?  Yes ○ No ●					
				Present? Yes O NO					
Remarks: (Include photo numbers here or on a separate sh	ieet.)								

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

Soil Sampling Point: u-50n19w21-c1

De: C=Concentration. D=Depletion. RM=Reduced Matrix., CS=Covered or Coated Sand Grains      Coation: PL=Pore Lining. M=Matrix	Dee: CConcentration. DDepletion. RM-Reduced Matrix, CS-Covered or Coated Sand Grains 2Location: PL-Pore Lining, M-Matrix  dric Soil Indicators:  Histosoil (A1)	INCHES		trix				edox Featı			_			
De: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains    **ILocation: PL=Pore Lining. M=Matrix  dric Soil Indicators:  Histosol (A1)	Dee: C-Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains <sup>2</sup> Location: PL=Pore Lining. M=Matrix  ### Afric Soil Indicators:   Pl=Pore Lining. M=Matrix   P					Colo	(moist)	%_	Type	Loc <sup>2</sup>			Re	marks
Histosol (A1)	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histosol (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Sort Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) LRR K, L) Dark Surface (S7) (LRR K, L, R) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L, R) Hydrogen Sulfide (A2) Peleted Dark Surface (F7) Polyvalue Below Surface (F1) Iron-Manganese Masses (F12) (LRR K, L, R) Polyvalue Below Surface (F3) Polyvalue Below Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L) Depleted Dark Surface (F7) Polyvalue Below Surface (F1) Iron-Manganese Masses (F12) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F7) Polyvalue Below Surface (F7) Polyvalue Below Dark Surface (F7) Polyvalue Below Surface (F8) (LRR K, L) Polyvalue Below Surface (F8) (LRR K	0-12	10YR 4	4/4	100						Sandy Cla	ay Loam		
Histosol (A1)	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histosol (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Sort Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) LRR K, L) Dark Surface (S7) (LRR K, L, R) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L, R) Hydrogen Sulfide (A2) Peleted Dark Surface (F7) Polyvalue Below Surface (F1) Iron-Manganese Masses (F12) (LRR K, L, R) Polyvalue Below Surface (F3) Polyvalue Below Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L) Depleted Dark Surface (F7) Polyvalue Below Surface (F1) Iron-Manganese Masses (F12) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F7) Polyvalue Below Surface (F7) Polyvalue Below Dark Surface (F7) Polyvalue Below Surface (F8) (LRR K, L) Polyvalue Below Surface (F8) (LRR K													
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Histosol (A1)	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histosol (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Sort Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) LRR K, L) Dark Surface (S7) (LRR K, L, R) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L, R) Hydrogen Sulfide (A2) Peleted Dark Surface (F7) Polyvalue Below Surface (F1) Iron-Manganese Masses (F12) (LRR K, L, R) Polyvalue Below Surface (F3) Polyvalue Below Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L) Depleted Dark Surface (F7) Polyvalue Below Surface (F1) Iron-Manganese Masses (F12) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F7) Polyvalue Below Surface (F7) Polyvalue Below Dark Surface (F7) Polyvalue Below Surface (F8) (LRR K, L) Polyvalue Below Surface (F8) (LRR K													
Histosol (A1)	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histosol (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Sort Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) LRR K, L) Dark Surface (S7) (LRR K, L, R) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L, R) Hydrogen Sulfide (A2) Peleted Dark Surface (F7) Polyvalue Below Surface (F1) Iron-Manganese Masses (F12) (LRR K, L, R) Polyvalue Below Surface (F3) Polyvalue Below Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L) Depleted Dark Surface (F7) Polyvalue Below Surface (F1) Iron-Manganese Masses (F12) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F7) Polyvalue Below Surface (F7) Polyvalue Below Dark Surface (F7) Polyvalue Below Surface (F8) (LRR K, L) Polyvalue Below Surface (F8) (LRR K													
Histosol (A1)	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histosol (A2) MLRA 149B) Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Histosol (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Sort Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) LRR K, L) Dark Surface (S7) (LRR K, L, R) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L, R) Hydrogen Sulfide (A2) Peleted Dark Surface (F7) Polyvalue Below Surface (F1) Iron-Manganese Masses (F12) (LRR K, L, R) Polyvalue Below Surface (F3) Polyvalue Below Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L) Depleted Dark Surface (F7) Polyvalue Below Surface (F1) Iron-Manganese Masses (F12) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F3) (LRR K, L, R) Polyvalue Below Dark Surface (F7) Polyvalue Below Surface (F7) Polyvalue Below Dark Surface (F7) Polyvalue Below Surface (F8) (LRR K, L) Polyvalue Below Surface (F8) (LRR K													
Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L, M)  Dark Surface (S7) (LRR K, L, M)  Dark Surface (S7) (LRR K, L)  Dark Surface (S8) (LRR K, L)  Depleted Below Dark Surface (A11)  Redox Dark Surface (F6)  Iron-Manganese Masses (F12) (LRR K, L, R)  Depleted Dark Surface (F7)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Sandy Gleyed Matrix (S4)  Redox Depressions (F8)  Redox Dark Surface (S7) (LRR K, L)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Sandy Redox (S5)  Red Parent Material (F21)  Very Shallow Dark Surface (TF12)  Dark Surface (S7) (LRR R, MLRA 149B)  Dark Surface (S7) (LRR R, MLRA 149B)  Sandy Redox (S5)  Red Parent Material (F21)  Very Shallow Dark Surface (TF12)  Depleted Layer (if observed):	Histosol (A1)	e: C=Conce	entration. D=De	epletion.	RM=Redu	ced Matrix	c, CS=Cover	red or Coat	ed Sand Gra	ins <sup>2</sup> Loca	tion: PL=P	ore Lining. M=I	Matrix	
Histosol (A1)  Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  2 cm Muck (A10) (LRR K, L, MLRA 149B)	Histosol (A1)	dric Soil In	dicators:								Indica	tors for Brob	lomatic Hydr	ric Soils : 3
Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Muck Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L, M)  MERA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L, M)  Dark Surface (S7) (LRR K, L, M)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Sandy Redox (S5)  Red Parent Material (F21)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  trictive Layer (if observed):  Type: _rock  MERA 149B)  Coast Prairie Redox (A16) (LRR K, L, R)  Coast Prairie Redox (A16) (LRR K, L, R)  Strim Muck (A10) (LRR K, L, R)  Strim Muck (A10) (LRR K, L, R)  Coast Prairie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L, R)  Polyvalue Below Surface (S9) (LRR K, L)  Thin Dark Surface (S9) (LRR	Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Muck Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Stripped Matrix (S6)  Dark Surface (S9)  Loamy Mucky Mineral (F1) LRR K, L)  Depleted Below Dark Surface (S7)  Depleted Below Dark Surface (S9)  Depleted Below Dark Surface (S9)  Redox Dark Surface (F6)  Thin Dark Surface (S9)					☐ Po	lvvalue Belo	w Surface	(S8) (LRR R					
Black Histic (A3)	Black Histic (A3)					ML	RA 149B)		(, (					
Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Muck Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Depleted Dark Surface (S7) (LRR K, L, M)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Red Parent Material (F21)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Type: _rock    Loamy Mucky Mineral (F1) LRR K, L)   Dark Surface (S7) (LRR K, L, M)   Dark Surface (S7) (LRR K, L, M)   Dark Surface (S7) (LRR R, MLRA 149B)   Other (Explain in Remarks)   Dark Surface (TF12)   Other (Explain in Remarks)   Dark Surface (TF12)   Dark Surface (TF	Hydrogen Sulfide (A4)					☐ Th	in Dark Sur	face (S9) (	LRR R, MLR	A 149B)				
Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Muck Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR K, L)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Redox Depressions (F8)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Redox Depressions (F8)  Redox Depressions (F8)  Depleted Dark Surface (F7)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Red Parent Material (F21)  Very Shallow Dark Surface (TF12)  Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  trictive Layer (if observed):  Type: _rock	Stratified Layers (A5)					Lo	amy Mucky	Mineral (F1	1) LRR K, L)					
Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A12)  Thick Dark Surface (A12)  Sandy Muck Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Redox Depressions	Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A12)  Sandy Muck Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Thin Dark Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Tron-Manganese Masses (F12) (LRR K, L, R)  Polyvalue Below Surface (S9) (LRR K, L)  Tron-Manganese Masses (F12) (LRR K, L, R)  Polyvalue Below Surface (S9) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Tron-Manganese Masses (F12) (LRR K, L, R)  Polyvalue Below Surface (S9) (LRR K, L)  Thin Dark Surface (S7)  Thin Dark Surface (S9)  Thin Dark Surface (S7)  Th					Lo	amy Gleyed	Matrix (F2	)					
Thick Dark Surface (A12)  Sandy Muck Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, L, R)  Stripped Matrix (S6)  Dark Surface (F7)  Redox Depressions (F8)  Redox Depressions (F8)  Redox Depressions (F8)  Redox Depressions (F8)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Red Parent Material (F21)  Very Shallow Dark Surface (TF12)  Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type: _rock  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Other (Explain in Remarks)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Thick Dark Surface (A12)  Sandy Muck Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7)  Liron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Red Parent Material (F21)  Very Shallow Dark Surface (TF12)  Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type: _rock  Depth (inches): 12  Hydric Soil Present? Yes No •			aco (A11	1)									
Sandy Muck Mineral (S1)  Sandy Muck Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Strictive Layer (if observed):  Type: _rock  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Weyry Shallow Dark Surface (TF12)  Other (Explain in Remarks)	Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Clicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Chrictive Layer (if observed):  Type: _rock Depth (inches): 12    Iron-Manganese Masses (F12) (LRR K, L, R)   Piedmont Floodplain Soils (F19) (MLRA 149B)   Mesic Spodic (TA6) (MLRA 144A, 145, 149B)   Red Parent Material (F21)   Very Shallow Dark Surface (TF12)   Other (Explain in Remarks)   Other (Explain in Remarks)   Hydric Soil Present? Yes  No •			ace (ATI	,						TI	nin Dark Surfac	e (S9) (LRR K	, L)
Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  trictive Layer (if observed):  Type: _rock  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Wery Shallow Dark Surface (F21)  Other (Explain in Remarks)  Other (Explain in Remarks)	Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  trictive Layer (if observed):  Type: _rock Depth (inches): 12  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Hydric Soil Present? Yes No •										In	on-Manganese	Masses (F12)	(LRR K, L, R)
Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Type: _rock  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)  Quive Red Parent Material (F21)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  trictive Layer (if observed): Type: _rock Depth (inches): _12  Mesic Spodic (TA6) (MLRA 144A, 145, 149B)					_			.,		Pi	edmont Floodp	ain Soils (F19)	(MLRA 149B)
Stripped Matrix (S6)	Stripped Matrix (S6)					1.0	dox Depies	310113 (1 0)			M	esic Spodic (TA	6) (MLRA 144	A, 145, 149B)
Dark Surface (S7) (LRR R, MLRA 149B)  Other (Explain in Remarks)  Idicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Itrictive Layer (if observed):  Type: _rock  Hydria Sail Present3 _ Xxx	Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  trictive Layer (if observed):  Type: _rock Depth (inches): _12										Re	ed Parent Mate	ial (F21)	
Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  trictive Layer (if observed):  Type: rock  Hydric Seil Present 2 - X to Present 2 - X to Present 3	Dark Surface (S7) (LRR R, MLRA 149B)  dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  trictive Layer (if observed):  Type: _rock Depth (inches): _12  Hydric Soil Present? Yes \ No \ \emptyres \ \emptyres \ No \ \emptyres	Stripped Ma	atrix (S6)								□ Ve	ery Shallow Dar	k Surface (TF1	12)
dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  trictive Layer (if observed):  Type: _rock	dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  trictive Layer (if observed):  Type: _rock Depth (inches): _12	Dark Surfac	ce (S7) (LRR R,	MLRA 1	49B)									
trictive Layer (if observed):  Type: _rock	trictive Layer (if observed):  Type: _rock Depth (inches): _12  Hydric Soil Present? Yes \( \cdot \cdo		hydronhytic vea	etation	and wetlar	nd hydrolo	av must he	nresent ur	nless disturb	ed or proble		` '	,	
Type: rock	Type: rock Depth (inches): 12 Hydric Soil Present? Yes No  No	ndicators of h	nyan opinyano rog		and monai	ia ilgaroio	gy <b>u</b> ot 20	prosonit, an	noos alotais	ou or proble				
Under Call December 1	Depth (inches): 12 Hydric Soil Present? Yes No •			ed ):										
Depth (inches): 12 Yes No S	Depth (Indies). 12	strictive Lay		. ,							Usedaio (	Call Dunnant?	<b>v</b> $\cap$	N. O
	marks:	strictive Lay	k								пуштіс	son Present?	Yes ∪	No S
		<b>strictive Lay</b> Type: <u>rock</u> Depth (inche	k											
		<b>trictive Lay</b> Type: <u>rock</u> Depth (inche	k											
		<b>trictive Lay</b> Type: <u>rock</u> Depth (inche	k											
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