WETLAND DETERMINATION DATA FORM Great Plains Region

Slope (%): Are climatic/h Are Vegetatic Are Vegetatic SUMMARY O Hydrophytic \	I16FShoulder8 - 15%nydrologic coonQonQSoilFFNDING/egetation P	resent?	□significantly □aturally pro	65856 is time of yea / disturbed?	cal Relief: Longitude:	NW VL -96.510		Datum: ☑ Yes nstances pre □ No Hydric Soil	 No esent? s Present? 	Section: Township: Range: No	08/01/14 Marshall MN u-155n46w12-b1 Dir:
Wetland Hydrology Present? No Is This Sampling Point Within A Wetland? No Remarks: The upland point is located in a hardwood forest community upslope from a river valley. Dominant vegetation includes green ash, American elm, and Pennsylvania sedge. HYDROLOGY											
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): Primary: Secondary: A1 - Surface Water B11 - Salt Crust B6 - Surface Soil Cracks A2 - High Water Table B13 - Aquatic Fauna B8 - Sparsely Vegetated Concave Surface A3 - Saturation C1 - Hydrogen Sulfide Odor B10 - Drainage Patterns B1 - Water Marks C2 - Dry Season Water Table C3 - Oxidized Rhizospheres on Living Roots (not tillk B2 - Sediment Deposits C3 - Oxidized Rhizospheres on Living Roots (not tillk C8 - Crayfish Burrows B3 - Drift Deposits C7 - Thin Muck Surface D2 - Geomorphic Position B5 - Iron Deposits Other (Explain) D5 - FAC-Neutral Test B7 - Inundation Visible on Aerial Imagery D7 - Frost-Heaved Hummocks (LRR F) B9 - Water-Stained Leaves B9 - Water-Stained Leaves							Vegetated Concave Surface e Patterns Rhizospheres on Living Roots (tilled) Burrows n Visible on Aerial Imagery whic Position tral Test				
Field Observ Surface Wate Water Table Saturation Pr Describe Reco	er Present? Present? esent?	Yes □ Yes □ Yes □	Depth	n:	(in.) (in.) (in.) evious insp	ections),	if available:	Wetland H	lydrology l	Present?	N
Remarks: No indicators of wetland hydrology were observed. SOILS Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)											
Depth (In.) 0-18	Hue_10YR	Matrix Color (Moist) 2/1	% 100	Color (I	Moist)	Mottle %	es Type	Location	Texture LFS		Remarks

NPCS Hydric Soil Field Indicators (check here if indicators are not present).

NRCS Hydri	ic Soil Field Indicators (check here	e if indicators are not present):		
_			Indicators for Pro	oblematic Soils ¹
	A1- Histosol	S5 - Sandy Redox	A9 - 1 cm Muck (L	.RR I, J)
	A2 - Histic Epipedon	S6 - Stripped Matrix	A16 - Coast Prairi	e Redox (LRR F, G, H)
	A3 - Black Histic	F1 - Loamy Mucky Mineral	S7 - Dark Surface	(LRR G)
	A4 - Hydrogen Sulfide	F2 - Loamy Gleyed Matrix	F16 - High Plains	Depressions (LRR H, outside MLRA 72, 73)
	A5 - Stratified Layers (LRR F)	F3 - Depleted Matrix	F18 - Reduced Ve	rtic
	A9 - 1 cm Muck (LRR FGH)	F6 - Redox Dark Surface	TF2 - Red Parent	Material
	A11 - Depleted Below Dark Surface	F7 - Depleted Dark Surface	🗖 TF12 - Very Shall	ow Dark Surface
	A12 - Thick Dark Surface	F8 - Redox Depressions	Other (Explain in F	Remarks)
	S1 - Sandy Mucky Mineral	F16 - High Plains Depressions (ML)	RA 72, 73 of LRR H)	
	S2 - 2.5 cm Mucky Peat or Peat (LRR G, H)			
	S3 - 5 cm Mucky Peat or Peat (LRR F)		¹ Indicators of hydroph	ytic vegetation and wetland hydrology must be present,
	S4 - Sandy Gleyed Matrix		unless disturbed or pr	oblematic.
Restrictive Layer	Туре:	Depth:	Hydric Soil Present? N	
Remarks:	Soil is loamy fine sand throughout the	profile. No hydric soil indicators were	observed.	

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Project/Site:	e: L3R				Sample Point: u-155n46w12-b1
VEGETATIO		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.	Ulmus americana	<u>30</u>	Y	FAC	
2.	Fraxinus pennsylvanica	20	Y	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)
3.			·•		
4.	-1				Total Number of Dominant Species Across All Strata: 5 (B)
5.					
5. 6.				'	$\frac{1}{2}$
б. 7.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.0%</u> (A/B)
7. 8.				!	Prevalence Index Worksheet
<u> </u>					-
9. 10.					<u>Total % Cover of:</u> <u>Multiply by:</u>
10.	 Total Cover =	50			$\begin{array}{c cccc} OBL \text{ spp.} & 0 & x & 1 = & 0 \\ FACW \text{ spp.} & 5 & x & 2 = & 10 \end{array}$
I		00		ľ	
					FAC spp. 75 $X 3 = 225$
	Stratum (Plot size: 15 ft. radius)		V		FACU spp. 40 x 4 = 160
1.	Prunus virginiana	30	<u> </u>	FACU	UPL spp. 35 X 5 = 175
2.					
3.					Total <u>155</u> (A) <u>570</u> (B)
4.					
5.					Prevalence Index = B/A = <u>3.677</u>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	30			Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex pensylvanica	35	Y	NI	1
2.	Laportea canadensis	25	Y	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Thalictrum dioicum	5	N	FACW	
4.	Lonicera canadensis	5	N	FACU	Definitions of Vegetation Strata:
5.	Galium triflorum	5	N	FACU	
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					4
9.	1				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
<u> </u>	-				
11.					4
11.	-				Herb - All herbaceous (non-woody) plants, regardless of size.
12.					
13.					4
	-				Woody Vines - All woody vines, regardless of height.
15.	Tatal Cover -			'	Woody vines - All woody vines, regardloss of horgh.
1	Total Cover =	75		,	
				'	
Woody Vine S	Stratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
ļ	Total Cover =		2		
Remarks:	Dominant vegetation includes green ash and but covered with leaf litter.	American	elm in the	e canopy a	and Pennsylvania sedge in the herbaceous layer. Part of the area is unvegetated
Additional F	Remarks:				
1					