WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	08/19/14
Applicant:		Enbridge									County:	Marshall
Investigators	3:	RAJ/BĔH				Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	I16F					. C	NW	I Classification	:]	
Landform:	Depression					cal Relief:					Sample Point	: <u>w-157n47w16-c2</u>
Slope (%):	3 - 7%		Latitude: 48			Longitude:			Datum:			
	•	nditions on the si				Ir? (If no, exp	1		☑ Yes	□ No	Section:	
Are Vegetati		□, or Hydrology	•	-			Are	e normal circur	-	esent?	Township:	-
Are Vegetatio		□, or Hydrology	y Daturally	proble	ematic?			☑ Yes	□ No		Range:	Dir:
SUMMARY C			N a						Ludria Cai	la Dragont?	Vaa	
• • •	Vegetation Process		Ye							ls Present?	t Within A W	etland? Yes
Remarks:	drology Prese	point is in a dep	Ye ression with		arger flood	lain fores	\ +		15 1115 34			elland? Tes
Remarks.	The sample						ol.					
HYDROLOG	V											
		aatara (Ohaali a					o (ne al\ -			
-	•••	icators (Check a	all that apply;	; Minii	mum of on	e primary	or two s	econdary requi	red):	Secondary		
<u>Primary</u> □	<u>′.</u> A1 - Surface \	Water				B11 - Salt	Crust			Secondary:	B6 - Surface S	Soil Cracks
	A2 - High Wat					B13 - Aqua		l				Vegetated Concave Surface
	A3 - Saturatio					C1 - Hydro					B10 - Drainage	e Patterns
	B1 - Water Ma					C2 - Dry S						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen B3 - Drift Dep	•						spheres on Living educed Iron	Roots (not till	• •	C8 - Crayfish I	Burrows n Visible on Aerial Imagery
	B4 - Algal Ma					C7 - Thin N					D2 - Geomorp	0,
	B5 - Iron Dep					Other (Exp					D5 - FAC-Neu	
		n Visible on Aerial II	magery								D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves										
Field Obser						<i></i> 、						
	ter Present?			epth:		(in.)			Wetland F	lydrology	Present?	Y
Water Table		Yes 🗆		epth:		(in.)				.,		<u> </u>
Saturation P	resent?	Yes 🗆	De	epth:		(in.)						
Describe Rec	orded Data (s	tream gauge, mor	nitoring well	oorial	hotos pr	vious inor						
	(a can gaage, me		aenai	i priotos, pre	evious insp	pections),	if available:				
Remarks:		n a floodplain tha	-			-			surfaces wei	e also obse	erved.	
			-			-			surfaces wer	e also obse	erved.	
SOILS	The site is in	n a floodplain tha	at would seas	sonall	ly hold wat	er. Sparse	ely veget	ated concave s		e also obse	erved.	
SOILS Profile Descri	The site is in in the site is a	n a floodplain tha	at would seas	sonall	ly hold wat	er. Sparse	onfirm th	ated concave s	ndicators.)	e also obse	erved.	
SOILS Profile Descri	The site is in in the site is a	n a floodplain tha	at would seas	sonall	ly hold wat	er. Sparse	onfirm th	ated concave s	ndicators.)	e also obse	erved.	
SOILS Profile Descri	The site is in in the site is a	n a floodplain tha be to the depth n etion, RM=Reduced N	at would seas	sonall	ly hold wat	er. Sparse	onfirm th	ated concave s e absence of in ore Lining, M=Mat	ndicators.)	e also obse	erved.	
SOILS Profile Descri (Type: C=Concer	The site is in in the site is a	n a floodplain tha be to the depth n etion, RM=Reduced M Matrix	at would seas needed to do Matrix, CS=Cov	sonall ocume vered/C	ly hold wat ent the indic Coated Sand (er. Sparse cator or co Grains; Loca	onfirm th tion: PL=P	ated concave s e absence of in ore Lining, M=Mat	ndicators.) ^{rix)}		erved.	Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.)	The site is in intration, Descri	h a floodplain tha be to the depth n etion, RM=Reduced M Matrix Color (Moist)	at would seas needed to do Matrix, CS=Cov	sonall ocume vered/C %	ly hold wate ent the indic Coated Sand C Color (I	er. Sparse cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottle	ated concave s e absence of in ore Lining, M=Mat es Type	ndicators.) ^{rix)}	Texture		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	The site is in iption (Descrintration, D=Deple Hue_10YR	h a floodplain tha be to the depth n etion, RM=Reduced N Matrix Color (Moist) 2/1	at would sease needed to do Matrix, CS=Cov	sonall ocume vered/C % 98 F	ent the indicent the indicent the indicent the indicent of the indicento of the indicent of the indicent of th	er. Sparse cator or co Grains; Loca Moist) 2.5/2	onfirm th tion: PL=P Mottle 2	ated concave s e absence of in ore Lining, M=Mat es Type C	ndicators.) rix) Location	Texture CL	erved.	
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21	The site is in iption (Descrintration, D=Deple Hue_10YR Hue_10YR	h a floodplain that be to the depth n etion, RM=Reduced N Matrix Color (Moist) 2/1 4/1	at would sease needed to do Matrix, CS=Cov	sonall ocume vered/C % 98 F 65 F F 65 F	ly hold wat ent the indic Coated Sand C Color (I Hue_7.5YR Hue_10YR Hue_10YR	er. Sparse cator or co Grains; Loca Moist) 2.5/2 3/3 2/1	onfirm th tion: PL=P Mottle % 2 5 30	e absence of in ore Lining, M=Mat es Type C C C	Location M M M	Texture CL CL CL	redox in pore linir	ngs and matrix
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21	The site is in iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR	h a floodplain tha be to the depth n etion, RM=Reduced N Matrix Color (Moist) 2/1 4/1 Indicators (c	at would seas	sonall ocume vered/C % 98 F 65 F 65 F 65 F 65 F 65 F 65 F 5 S 65 F 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5	ly hold wat ent the indic Coated Sand C Color (I Hue_7.5YR Hue_10YR Hue_10YR Hue_10YR	er. Sparse cator or co Grains; Loca Moist) 2.5/2 3/3 2/1 ot presen edox Matrix lucky Miner	al	e absence of in ore Lining, M=Mat es Type C C C	Location M M M M	Texture CL CL CL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	redox in pore linir or Problemati luck (LRR I, J) Prairie Redox o urface (LRR G)	ngs and matrix <u>c Soils¹</u> (LRR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21	The site is in iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Histosol A4 - Hydrogen A5 - Stratified	h a floodplain tha be to the depth n etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 Indicators (c ipedon etic h Sulfide Layers (LRR F)	at would seas	sonall ocume vered/C % 98 F 65 F 65 F 65 F 65 F 65 F 5 8 98 F 65	Color (I Color (I Lue_7.5YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Color (I Lue_7.5YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR L	er. Sparse	al x	e absence of in ore Lining, M=Mat es Type C C C	Location M M M M	Texture CL CL CL CL Main and the second seco	redox in pore linir for Problematic luck (LRR I, J) Prairie Redox i urface (LRR G) Plains Depressio ced Vertic	ngs and matrix <u>c Soils¹</u> (LRR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	The site is in iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Histosol A4 - Hydroger A5 - Stratified A9 - 1 cm Mue	h a floodplain tha be to the depth n etion, RM=Reduced N Matrix Color (Moist) 2/1 4/1 Indicators (c ipedon etic n Sulfide Layers (LRR F) ck (LRR FGH)	at would seas	sonall cume vered/C % 98 F 65 F 65 F 65 F 65 F 5 5 5 5 5 5 5 5 5 5 5 5 5	Color (I Color (I Lue_7.5YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Color (I Lue_7.5YR Lue_20 Loar (I Color (I Lue_7.5YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Color (I Lue_7.5YR Lue_10YR Lue_10YR Lue_10YR Color (I Lue_7.5YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Color (I Lue_7.5YR Lue_10YR Lue_10YR Lue_10YR Color (I Lue_7.5YR Lue_10YR Lue_10YR Color (I Lue_7.5YR Lue_10YR Lue_10YR Color (I Lue_7.5YR Lue_10YR Lue_10YR Color (I Lue_10YR Lue_10YR Lue_10YR Color (I Lue_10YR Lue_10YR Color (I Lue_10YR Lue_10YR Color (I Lue_10YR Lue_10YR Color (I Lue_10YR Lue_10YR Color (I Lue_10YR Color	er. Sparse cator or co Grains; Loca Moist) 2.5/2 3/3 2/1 ot presen edox Matrix lucky Miner leyed Matri Matrix ark Surface	ely veget	e absence of in ore Lining, M=Mat es Type C C C	Location M M M M	Texture CL CL CL CL Main Const A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red F	redox in pore linir redox in pore linir or Problemati luck (LRR I, J) Prairie Redox of urface (LRR G) Plains Depression ced Vertic Parent Material	ngs and matrix <u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	The site is in iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Histic A4 - Hydroger A5 - Stratified A9 - 1 cm Mut A11 - Deplete	h a floodplain tha be to the depth n etion, RM=Reduced N Matrix Color (Moist) 2/1 4/1 4/1 Indicators (c ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac	at would seas	sonall ocume vered/C % 98 F 65 F 65 F 65 F 65 F 0 F 0 F 0 F 0 F 0 F 0 F 0 F	Color (I Color (I Lue_7.5YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lue_20YR Lu	er. Sparse	al x	e absence of in ore Lining, M=Mat es Type C C C	Location M M M M	Texture CL CL CL CL Magenticators f A9 - 1 cm M A16 - Coast S7 - Dark Se F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	redox in pore linir redox in pore linir for Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	The site is in iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Mut A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	h a floodplain tha be to the depth n etion, RM=Reduced N Matrix Color (Moist) 2/1 4/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	at would seas	Sonall	Color (I Color (I Lue_7.5YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lu	er. Sparse	al x	ated concave s	Location M M M M	Texture CL CL CL CL Manufactors f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	redox in pore linir for Problematic luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressio ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	The site is in iption (Descrintration, D=Deplet Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Muc S3 - 5 cm Muc S4 - Sandy Gi	be to the depth n etion, RM=Reduced N Matrix Color (Moist) 2/1 4/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral lucky Peat or Peat (LF	at would seas	Sonall	Color (I Color (I Lue_7.5YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lue_10YR Lu	er. Sparse	al x	ated concave s	Location M M M M M I I I I I I I I I I I I I I	Texture CL CL CL CL Main Const A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Explated on the construction of the constr	Tedox in pore linir Tedox in problematic Tedox in problematic.	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM Great Plains Region

	L3R				Sample Point: w-157n47w16-c2
ECETATIO					
EGETATION	N (Species identified in all uppercase a (Plot size: 30 ft. radius)	are non-native	species.)		
	<u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.	Acer negundo	60	Y	FAC	
2.	Fraxinus pennsylvanica	40	Y	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 5 (A)
3.	Ulmus americana	5	Ν	FAC	
4.					Total Number of Dominant Species Across All Strata: 6 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)
7.					
8.	1				Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. $5 \times 1 = 5$
	Total Cover	= 105			FACW spp. 0 $x 2 = 0$
					FAC spp. 136 X $3 = 408$
nling/Shrub {	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 x ext{ } 4 = 0$
<u>1.</u>	Fraxinus pennsylvanica	5	Y	FAC	UPL spp. 20 $x 5 = 100$
2.	Acer negundo	5	Y	FAC	
3.	Ulmus americana	1	 N	FAC	Total 161 (A) 513 (B)
4.					
5.					Prevalence Index = B/A = 3.186
<u> </u>					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	Total Cover :	= 11			$\frac{1}{2} = \frac{1}{2} D O F (1) = 1 + \frac{1}{2} = $
					Morphological Adaptations (Explain) *
ard Stratum (F	Plot size: 5 ft. radius)		V	FAC	Problem Hydrophytic Vegetation (Explain) *
1.	Carex radiata	20	T V	FAC	* Indiactors of hydric soil and watland hydrology must be
2.	Carex assiniboinensis	20		NI	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Carex stipata	5	N	OBL	
4.					Definitions of Vegetation Strata:
5.					The s
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					beight (DDH) regardless of beight
					height (DBH), regardless of height.
8.					
8. 9.					height (DBH), regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
8. 9. 10.					
8. 9. 10. 11.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
8. 9. 10. 11. 12.					
8. 9. 10. 11. 12. 13.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
8. 9. 10. 11. 12. 13. 14.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size.
8. 9. 10. 11. 12. 13.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
8. 9. 10. 11. 12. 13. 14.	Total Cover	=45			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size.
8. 9. 10. 11. 12. 13. 14.		=45			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size.
8. 9. 10. 11. 12. 13. 14. 15.	ratum (Plot size: 30 ft. radius)	=45			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size.
8. 9. 10. 11. 12. 13. 14. 15.		=45			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size.
8. 9. 10. 11. 12. 13. 14. 15.		=45			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size.
8. 9. 10. 11. 12. 13. 14. 15. 000y Vine Str 1.		=45			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size.
8. 9. 10. 11. 12. 13. 14. 15. Dody Vine Str 1. 2.		=45			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size. Woody Vines - All woody vines, regardless of height.
8. 9. 10. 11. 12. 13. 14. 15. 0000 Vine Str 1. 2. 3.		=45			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size. Woody Vines - All woody vines, regardless of height.
8. 9. 10. 11. 12. 13. 14. 15. 000dy Vine Str 1. 2. 3. 5.	ratum (Plot size: 30 ft. radius)				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size. Woody Vines - All woody vines, regardless of height.
8. 9. 10. 11. 12. 13. 14. 15. 000dy Vine Str 1. 2. 3. 5. 4.	ratum (Plot size: 30 ft. radius)	= 0 ling the depre			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size. Woody Vines - All woody vines, regardless of height.
8. 9. 10. 11. 12. 13. 14. 15. 00dy Vine Str 1. 2. 3. 5. 4. emarks:	ratum (Plot size: 30 ft. radius) Total Cover = Sedge species dominate the site. Surround species are representative of a floodplain fe	= 0 ling the depre			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size. Woody Vines - All woody vines, regardless of height. Hydrophytic Vegetation Present?
8. 9. 10. 11. 12. 13. 14. 15. 000dy Vine Str 1. 2. 3. 5. 4.	ratum (Plot size: 30 ft. radius) Total Cover = Sedge species dominate the site. Surround species are representative of a floodplain fe	= 0 ling the depre			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size. Woody Vines - All woody vines, regardless of height. Hydrophytic Vegetation Present?
8. 9. 10. 11. 12. 13. 14. 15. body Vine Str 1. 2. 3. 5. 4. emarks:	ratum (Plot size: 30 ft. radius) Total Cover = Sedge species dominate the site. Surround species are representative of a floodplain fe	= 0 ling the depre			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of size. Woody Vines - All woody vines, regardless of height. Hydrophytic Vegetation Present?