WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/28/14
Applicant:		Enbridge								County:	Kittson
Investigators		BCS/BEH			Subregio		,	MLRA 56		State:	MN
Soil Unit:	1248A			<u> </u>			Classification			-	
Landform:	Depression				cal Relief:					Sample Point	w-160n50w15-b1
Slope (%):	0 - 2%	unditions on the sit	Latitude: 48.6			-97.0935		Datum:			
		onditions on the site			dí ? (If no, exp		normal circun	⊡Yes		Section:	
Are Vegetation Are Vegetation	on ĻSoi	I ☑ or Hydrology I ☑ or Hydrology		ly disturbed?		Ale			esent	Township:	Dir:
				obiematic?						Range:	DIF:
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes											
Wetland Hyd			Yes Yes		-					t Within A W	etland? Yes
Remarks:				ated by bybrid	and broa	d-leaf cat	tail. The site is				ridor and located within a CRP
rtomanto.	field.					a loar oat		, adjacom a			
HYDROLOG	Y										
		iestere (Cheek all	thet each u	Aining une of our				no.d).			
Primary:		icators (Check all	i that apply; i	linimum of on	e primary	or two se	econdary requi	rea):	Secondary:		
	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks
7	A2 - High Wa				B13 - Aqua	atic Fauna				B8 - Sparsely	Vegetated Concave Surface
✓ □	A3 - Saturatio				C1 - Hydro					B10 - Drainag	e Patterns Rhizospheres on Living Roots (tilled)
	B1 - Water M B2 - Sedimer				C2 - Dry S C3 - Oxidiz		pheres on Living	Roots (not til			
	B3 - Drift Dep	osits			C4 - Prese	ence of Rec	duced Iron			C9 - Saturatio	n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin M		ce			D2 - Geomorp	
	B5 - Iron Dep	osits on Visible on Aerial Im	200nv		Other (Exp	olain)				D5 - FAC-Neu	itral Test aved Hummocks (LRR F)
		tained Leaves	lagery						-	D7 - FIOSI-REA	aved Hummocks (LKK F)
_											
Field Observ	vations:										
Surface Wate	er Present?	Yes 🗹	Dept	h: <mark>6</mark>	(in.)						X
Water Table	Present?	Yes 🗹	Dept	h: 0	(in.)			Wetland F	lydrology l	Present?	Y
Saturation Pr	esent?	Yes 🗹	Dept	h: 0	(in.)						
Describe Reco	orded Data (stream gauge moni	itoring well a	erial photos pr	evious insr	pections)	if available:				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: Six inches of surface water is present at the sample point.											
Remarks:	Six inches (of surface water is	present at th	e sample poir	nt.						
SOILS	Six incres (of surface water is	present at th	e sample poir	nt.						
SOILS Profile Descri	ption (Descr	ibe to the depth ne	eded to doc	ument the indi	cator or co	onfirm the	e absence of ir				
SOILS Profile Descri	ption (Descr		eded to doc	ument the indi	cator or co	onfirm the	e absence of ir				
SOILS Profile Descri	ption (Descr	ibe to the depth ne letion, RM=Reduced Ma	eded to doc	ument the indi	cator or co	onfirm the tion: PL=Pc	e absence of ir ore Lining, M=Matr				
SOILS Profile Descri (Type: C=Concer	ption (Descr	ibe to the depth ne letion, RM=Reduced Ma Matrix	eeded to doci atrix, CS=Cover	ument the indi	cator or co Grains; Loca	onfirm the tion: PL=Pc Mottle	e absence of ir ore Lining, M=Matr	ix)	Touturo		Domerico
SOILS Profile Descri (Type: C=Concer Depth (In.)	ption (Descr itration, D=Dep	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist)	eeded to doci atrix, CS=Cover	ument the indi ed/Coated Sand	cator or co Grains; Loca	onfirm the tion: PL=Pc	e absence of ir ore Lining, M=Matr		Texture		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9	ption (Descr htration, D=Depl Hue_10YR	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to doct atrix, CS=Cover %	ument the indi ed/Coated Sand	cator or co Grains; Loca Moist)	onfirm the tion: PL=Pc Mottle %	e absence of ir rre Lining, M=Matr es Type	Location	С		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22	ption (Descr htration, D=Depl Hue_10YR Hue_10YR	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1	eeded to doct atrix, CS=Cover % 100 95	Color (Hue_2.5Y	Cator or co Grains; Loca Moist) 6/2	Onfirm the tion: PL=Pc Mottle % 5	e absence of ir ore Lining, M=Matr 28 Type D	Location M	C C		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30	ption (Descr tration, D=Dep Hue_10YR Hue_10YR Hue_2.5Y	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 5/2	eeded to doci atrix, CS=Cover % 10 95 80	Color (Hue_10YR	cator or co Grains; Loca Moist)	onfirm the tion: PL=Pc Mottle %	e absence of ir rre Lining, M=Matr es Type	Location	C C C		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22	ption (Descr htration, D=Depl Hue_10YR Hue_10YR	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1	eeded to doct atrix, CS=Cover % 100 95	Color (Hue_10YR	Cator or co Grains; Loca Moist) 6/2	Onfirm the tion: PL=Pc Mottle % 5	e absence of ir ore Lining, M=Matr 28 Type D	Location M	C C		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30	ption (Descr tration, D=Dep Hue_10YR Hue_10YR Hue_2.5Y	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 5/2	eeded to doci atrix, CS=Cover % 10 95 80	Color (Hue_10YR	Cator or co Grains; Loca Moist) 6/2	Onfirm the tion: PL=Pc Mottle % 5	e absence of ir ore Lining, M=Matr 28 Type D	Location M	C C C		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 5/2 2/1	eeded to docc atrix, CS=Cover % 100 95 80 18	ument the indi ed/Coated Sand Color (1 Hue_2.5Y Hue_10YR	Cator or co Grains; Loca Moist) 6/2 5/6	Mottle	e absence of ir ore Lining, M=Matr es Type D C	Location M	C C C		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 5/2 2/1	eeded to docc atrix, CS=Cover % 100 95 80 18	Color (Hue_10YR	Cator or co Grains; Loca Moist) 6/2 5/6	Mottle	e absence of ir ore Lining, M=Matr 28 Type D	Location M	C C C		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30 NRCS Hydr	ption (Descr tration, D=Dep Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 5/2 2/1	eeded to doce atrix, CS=Cover % 100 95 80 18 18 neck here if in	Color (Color (Hue_2.5Y Hue_10YR	Cator or co Grains; Loca Moist) 6/2 5/6 5/6 not presen	Mottle	e absence of ir ore Lining, M=Matr es Type D C	Location M M	C C C C Indicators f	ior Problemati	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 5/2 2/1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eeded to doci atrix, CS=Cover % 100 95 80 18 18 18 18 18	ument the indi ed/Coated Sand Color (1) Hue_2.5Y Hue_10YR	Cator or co Grains; Loca Moist) 6/2 5/6 5/6 not presen edox	Mottle	e absence of ir ore Lining, M=Matr es Type D C	Location M M	C C C C Indicators f	ior Problemati uck (LRR I, J) rairie Redox (I	<u>c Soils¹</u>
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30 22-30	ption (Descr tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y Hue_10YR ic Soil Field	ibe to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 2/1 5/2 2/1 Indicators (ch	eeded to doc: atrix, CS=Cover % 100 95 80 18 18 neck here if in	Ument the indi ed/Coated Sand I Color (Hue_2.5Y Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	Cator or co Grains; Loca Moist) 6/2 5/6 5/6 not presen edox Matrix fucky Miner	A provide the second se	e absence of ir ore Lining, M=Matr es Type D C	Location M M	C C C C Indicators f A 9 - 1 cm M A 16 - Cost F	luck (LRR I, J)	<u>c Soils1</u> .RR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30 22-30 NRCS Hydr	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 5/2 2/1 1 Indicators (ch bipedon stic n Sulfide	eeded to doct atrix, CS=Cover % 100 95 80 18 18 18 18 18 10 10 10 10 10 10 10 10 10 10 10 10 10	Ument the indient of the indient of the indicators are response of the indicators are respons	Cator or co Grains; Loca Moist) 6/2 5/6 5/6 5/6 cot presen edox Matrix fucky Miner. Bleyed Matri	A provide the second se	e absence of ir ore Lining, M=Matr es Type D C	Location M M	C C C C A9-1 cm M A16 - Cost F S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	<u>c Soils1</u> .RR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 5/2 2/1 5/2 2/1 Indicators (ch bipedon stic n Sulfide Layers (LRR F)	eeded to docc atrix, CS=Cover % 100 95 80 18 18 100 95 80 18 100 100 95 80 100 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 80 80 80 80 80 80 80 80 80 80 80 80	ument the indi ed/Coated Sand Color (Hue_2.5Y Hue_10YR Hue_10YR S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted	Cator or co Grains; Loca Moist) 6/2 5/6 5/6 not presen edox Matrix fucky Miner. Jelyed Matrii	Mottle	e absence of ir ore Lining, M=Matr es Type D C	Location M M	C C C C A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ed Vertic	<u>c Soils1</u> .RR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30 22-30 NRCS Hydr	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 5/2 2/1 1 Indicators (ch bipedon stic n Sulfide	eeded to doci atrix, CS=Cover % 100 95 80 18 18 18 10 10 10 10 10 10 10 10 10 10 10 10 10	Color (Color (Hue_2.5Y Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depletec F6 - Redox D	Cator or co Grains; Loca Moist) 6/2 5/6 5/6 not presen edox Matrix fucky Miner- Bleyed Matri Ukatrix ark Surface	Mottle	e absence of ir ore Lining, M=Matr es Type D C	Location M M	C C C C A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressi eed Vertic Parent Material	<u>c Soils¹</u> .RR F, G, H) ONS (LRR H, outlade MLRA 72, 73)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30 22-30 NRCS Hydr	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick D	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 5/2 2/1 1 Indicators (ch bipedon stic n Sulfide I Layers (LRR FG) ick (LRR FGH) ick (LRR FGH) ork Surface	eeded to doct atrix, CS=Cover % 100 95 80 18 18 18 10 100 100 100 100 100 100	Color (Color (Hue_2.5Y Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy A F2 - Loamy C F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	cator or co Grains; Loca Moist) 6/2 5/6 5/6 5/6 not presen edox Matrix fucky Miner. Bleyed Matri I Matrix ark Surface I Dark Surface	Mottle % 5 2 tt):	e absence of ir ore Lining, M=Matr ss Type D C	Location M M M Location	C C C C A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF2 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ed Vertic	<u>c Soils¹</u> .RR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer 0-9 9-22 22-30 22-30 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR at listic Epi A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 5/2 2/1 5/2 2/1 Indicators (ch bipedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface Jark Surface Jucky Mineral	eeded to docr atrix, CS=Cover % 100 95 80 18 18 10 100 95 80 100 100 100 95 80 100 100 95 80 100 100 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 95 80 100 100 100 100 100 100 100 100 100	Color (Color (Hue_2.5Y Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy A F2 - Loamy C F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	cator or co Grains; Loca Moist) 6/2 5/6 5/6 5/6 not presen edox Matrix fucky Miner. Bleyed Matri I Matrix ark Surface I Dark Surface	Mottle % 5 2 tt):	e absence of ir ore Lining, M=Matr es Type D C	Location M M M Location	C C C C A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF2 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressi ed Vertic Parent Material Shallow Dark S	<u>c Soils¹</u> .RR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30 22-30 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 5/2 2/1 10 10 10 10 10 10 10 10 10 10 10 10 10	eded to doc: atrix, CS=Cover % 100 95 800 180 180 100 95 800 180 100 95 800 100 100 95 800 100 100 100 100 100 100 100 100 100	Color (Color (Hue_2.5Y Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy A F2 - Loamy C F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	cator or co Grains; Loca Moist) 6/2 5/6 5/6 5/6 not presen edox Matrix fucky Miner. Bleyed Matri I Matrix ark Surface I Dark Surface	Mottle % 5 2 tt):	e absence of ir ore Lining, M=Matr ss Type D C	Location M M M Location	C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S0 F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks)	<u>c Soils1</u> LRR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer 0-9 9-22 22-30 22-30 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 5/2 2/1 10 10 10 10 10 10 10 10 10 1	eded to doc: atrix, CS=Cover % 100 95 800 180 180 100 95 800 180 100 95 800 100 100 95 800 100 100 100 100 100 100 100 100 100	Color (Color (Hue_2.5Y Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy A F2 - Loamy C F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	cator or co Grains; Loca Moist) 6/2 5/6 5/6 5/6 not presen edox Matrix fucky Miner. Bleyed Matri I Matrix ark Surface I Dark Surface	Mottle % 5 2 tt):	e absence of ir ore Lining, M=Matr ss Type D C	Location M M M Location	C C C C A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks)	<u>c Soils¹</u> .RR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30 22-30 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic EF A3 - Black Hi A4 - Hydroge A5 - Stratifice A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm Mu	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 5/2 2/1 10 10 10 10 10 10 10 10 10 1	eded to doc: atrix, CS=Cover % 100 95 800 180 180 100 95 800 180 100 95 800 100 100 95 800 100 100 100 100 100 100 100 100 100	Color (Color (Hue_2.5Y Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy A F2 - Loamy C F3 - Depletec F6 - Redox D F7 - Depletec F8 - Redox D	cator or co Grains; Loca Moist) 6/2 5/6 5/6 5/6 not presen edox Matrix fucky Miner. Bleyed Matri I Matrix ark Surface I Dark Surface	Mottle % 5 2 tt):	e absence of ir ore Lining, M=Matr ss Type D C	Location M M M Location	C C C C A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks)	<u>c Soils1</u> LRR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30 22-30 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifice A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	ibe to the depth ne letion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 5/2 2/1 1 5/2 2/1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eded to doc: atrix, CS=Cover % 100 95 800 180 180 100 95 800 180 100 95 800 100 100 95 800 100 100 100 100 100 100 100 100 100	Ument the indi ed/Coated Sand I Color (Hue_2.5Y Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	Cator or co Grains; Loca Moist) 6/2 5/6 not presen edox Matrix fucky Miner. Sleyed Matri I Matrix ark Surface I Dark Surfa epressions ains Depres	Mottle % 5 2 tt):	e absence of ir pre Lining, M=Matri PS Type D C C RA 72, 73 of LRF	Location M M Location	C C C C A9 - 1 cm M A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks)	<u>c Soils1</u> LRR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30 22-30 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_25Y Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 5/2 2/1 5/2 2/1 Indicators (ch bipedon stic n Sulfide I Layers (LRR F) cck (LRR FGH) ed Below Dark Surface Jark Surface Jucky Peat or Peat (LR cky Peat or Peat (LR leyed Matrix	eeded to docc atrix, CS=Cover % 100 95 80 18 10 95 80 18 10 10 95 10 10 10 10 10 10 10 10 10 10 10 10 10	Ument the indied/Coated Sand	Cator or co Grains; Loca Moist) 6/2 5/6 00000000000000000000000000000000000	Mottle % 5 2 x x ssions (MLf	e absence of ir pre Lining, M=Matri ss Type D C C RA 72, 73 of LRF Hydric So	ix)	C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	Juck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi eed Vertic arrent Material Shallow Dark S ain in Remarks) oydrophytic vegeta ad or problematic.	c Soils ¹ LRR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30 22-30 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_25Y Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 5/2 2/1 5/2 2/1 Indicators (ch bipedon stic n Sulfide I Layers (LRR F) cck (LRR FGH) ed Below Dark Surface Jark Surface Jucky Peat or Peat (LR cky Peat or Peat (LR leyed Matrix	eeded to docc atrix, CS=Cover % 100 95 80 18 10 95 80 18 10 10 95 10 10 10 10 10 10 10 10 10 10 10 10 10	Ument the indied/Coated Sand	Cator or co Grains; Loca Moist) 6/2 5/6 00000000000000000000000000000000000	Mottle % 5 2 x x ssions (MLf	e absence of ir pre Lining, M=Matri ss Type D C C RA 72, 73 of LRF Hydric So	ix)	C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	Juck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi eed Vertic arrent Material Shallow Dark S ain in Remarks) oydrophytic vegeta ad or problematic.	<u>c Soils1</u> LRR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-22 22-30 22-30 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_25Y Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 5/2 2/1 5/2 2/1 Indicators (ch bipedon stic n Sulfide I Layers (LRR F) cck (LRR FGH) ed Below Dark Surface Jark Surface Jucky Peat or Peat (LR cky Peat or Peat (LR leyed Matrix	eeded to docc atrix, CS=Cover % 100 95 80 18 10 95 80 18 10 10 95 10 10 10 10 10 10 10 10 10 10 10 10 10	Ument the indied/Coated Sand	Cator or co Grains; Loca Moist) 6/2 5/6 00000000000000000000000000000000000	Mottle % 5 2 x x ssions (MLf	e absence of ir pre Lining, M=Matri ss Type D C C RA 72, 73 of LRF Hydric So	ix)	C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	Juck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi eed Vertic arrent Material Shallow Dark S ain in Remarks) oydrophytic vegeta ad or problematic.	c Soils ¹ LRR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM

Great Plains Region

Generation (Partial: Status) The Branch (Partial: Status) 1 Sector Status) 3 Sector Status) 4 Sector Status) 5 Sector Status) 6 Sector Status) 8 Sector Status) 10 Total Cover = 10 Total Cover = 2 Sector Status) 3 Sector Status) 10 Total Cover = 2 Sector Status) 10 Total Cover = 2 Sector Status) 10 Total Cover = 2 Sector Status 3 Sector Status 3 Sector Status 4 Sector Status 5 Sector Status 6 Sector Status 7 Sector Status 8 Sector Status 9 Sector Status 10 Total Cover = 11 Sector Status 12 Total Cover =	Project/Site:	L3R				Sample Point: w-160n50w15-b1			
The Strand (Prot Sets: 0.1, radia) Numer of Dominant Spaces that an OBL_PACW, or PAC(A) 3.									
Special Marge N. Core Deminance Test Worksheet 1.			e non-native	species.)					
1	Tree Stratum (N/ Cover	Dominant	Ind Status	Dominanco Tost Workshoot			
2. Number of Dominant Species That are OBL FACW, or FAC3(A) 3. A. 4.	1		% Cover	Dominant	ind.Status	Dominance rest worksheet			
3.						Number of Dominant Species that are OBL_EACW_or EAC: 3 (Δ)			
4.									
5.						Total Number of Dominant Species Across All Strata: 3 (B)			
6.									
7.						Percent of Dominant Species That Are OBL_EACW_or EAC: 100.0% (A/B)			
8.									
9.						Prevalence Index Worksheet			
10. Total Cover = 0 71 = 56 Saping/Shub Strutum (Plot size: 15 fl. radua) FAC stip , 12 x 3 = 2 2 - - - - - 3 - - - - - - 4 -									
Total Cover = 0 FAC wspp 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2									
Sepling/Strutum (Plot size: 15 ft. radius) FAC: sop		Total Cover =	0						
Septing/Shub Stratum (Plot size: 15 ft, radius) FACU spp. <u>s</u> x 4 = <u>x0</u> 1				_					
1.	Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 x 4 = 20			
2.		(UPL spp. 0 x 5 = 0			
3.						···			
4.						Total 72 (A) 99 (B)			
5. Prevalence Index = BIA =						··			
6.						Prevalence Index = B/A = 1.375			
8.	6.								
9.	7.								
9.						Hydrophytic Vegetation Indicators:			
10. Total Cover =									
Total Cover =									
Herb Stratum (Plot size: 30 ft. radius)		Total Cover =	0						
Herb Stratum (Plot size: 5 ft, radius) 1. Typha taifuida 15 Y OBL 2. Typha taifuida 15 Y OBL 3. Alaran trivida 15 Y OBL 4. Symphytocitichum hancaolarum 10 N FACU 5. Lycopus asper 5 N OBL 6 Elymis repars 5 N FACU 7. Rame sterophytics 2 N FACU 9.									
1. Type a glacca 20 Y OBL 2. Type a latifolio 15 Y OBL 3. A farma triviale 15 Y OBL 4. Symphysichcham lancedatum 10 N FACW 5. Lycopus asper 5 N OBL 7. Rumex stenophysics 2 N FACU 7. Rumex stenophysics 2 N FACU 8.	Herb Stratum (Plot size: 5 ft. radius)							
3. Alisma triviale 15 Y OBL present, unless disturbed or problematic. 4. Symphytorichum lanceolatum 10 N FACW 5. Lycopus asper 5 N OBL 7. Rumex stencychyllus 2 N FACW 8.			20	Y	OBL				
3. 10 1 10 N FACW 4. Symphydrichum lanceolatum 10 N FACW 5. Lycopus aspar 5 N OBL 6 Elymus repens 5 N FACW 8. 2 N FACU 9.	2.	Typha latifolia	15	Y	OBL				
5. Lycopus asper 5 N OBL 6 Elymus repens 5 N FACU 7. Rumes stenophytus 2 N FACU 9.	3.	Alisma triviale	15	Y	OBL	present, unless disturbed or problematic.			
5. Lycopus asper 5 N OBL 6 Elymus repens 5 N FACU 7. Rumes stenophytus 2 N FACU 9.	4.	Symphyotrichum lanceolatum	10	Ν	FACW	Definitions of Vegetation Strata:			
7. Rumex stengohyllus 2 N FACW 8	5.	Lycopus asper	5	Ν	OBL				
7. Rumex stengohyllus 2 N FACW 8	6	Elymus repens	5	Ν	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
9.	7.	Rumex stenophyllus	2	Ν	FACW	height (DBH), regardless of height.			
10.	8.								
11.	9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
12.	10.								
13.	11.								
14.	12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
15. Woody Vines - All woody vines, regardless of height. Woody Vine Stratum (Plot size: 30 ft. radius) Hydrophytic Vegetation Present? Y 1. Hydrophytic Vegetation Present? Y 5. Hydrophytic Vegetation Present? Y 6. Total Cover = 0 Remarks: The wetland is dominated by hybrid and broad-leaf cattail; a mix of predominantly wetland forbs and graminoids is also present.	13.								
Total Cover =72 Woody Vine Stratum (Plot size: 30 ft. radius)	14.								
Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 4. Total Cover = 0 Remarks: The wetland is dominated by hybrid and broad-leaf cattail; a mix of predominantly wetland forbs and graminoids is also present.	15.					Woody Vines - All woody vines, regardless of height.			
Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 4. Total Cover = 0 Remarks: The wetland is dominated by hybrid and broad-leaf cattail; a mix of predominantly wetland forbs and graminoids is also present.		Total Cover =	72						
1.				· .	<u> </u>				
2.	Woody Vine St	ratum (Plot size: 30 ft. radius)							
3. Hydrophytic Vegetation Present? Y 5. Hydrophytic Vegetation Present? Y 4. Total Cover = 0 Remarks: The wetland is dominated by hybrid and broad-leaf cattail; a mix of predominantly wetland forbs and graminoids is also present.									
5. 4. Total Cover = 0 Remarks: The wetland is dominated by hybrid and broad-leaf cattail; a mix of predominantly wetland forbs and graminoids is also present.									
Total Cover = 0 Remarks: The wetland is dominated by hybrid and broad-leaf cattail; a mix of predominantly wetland forbs and graminoids is also present.						Hydrophytic Vegetation Present? Y			
Total Cover = 0 Remarks: The wetland is dominated by hybrid and broad-leaf cattail; a mix of predominantly wetland forbs and graminoids is also present.	5.								
Remarks: The wetland is dominated by hybrid and broad-leaf cattail; a mix of predominantly wetland forbs and graminoids is also present.	4.				_				
Additional Remarks:	Remarks:	The wetland is dominated by hybrid and broa	ad-leaf cat	tail; a mix	of predom	inantly wetland forbs and graminoids is also present.			
Additional Remarks:									
Additional Remarks:									
	Additional Remarks:								
	<u>.</u>								