WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 06/30/14			
Applicant: Enbridge							County: <u>Kittson</u>						
Investigators: EAB/RAJ				Subregion (MLRA or LRR): MLRA 56						State: <u>MN</u>			
Soil Unit:	1132A		_	NWI Classification:									
Landform:	Talf				cal Relief:					Sample Point: u-158n48w6-b1			
Slope (%):	0 - 2%	nditions on the sit	Latitude: 48.		Longitude:			Datum:					
	, ,	nditions on the site			di f (if no, ex		e normal circun		☑ No	Section:			
Are Vegetation	on ĻSol	or Hydrology or Hydrology or Hydrology				Ale	e normai circui ⊡ Yes		esent	Township: Range: Dir:			
				oblematic ?						Range: Dir:			
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? No Hydric Soils Present? No													
Wetland Hyd			Yes		-	Is This Sampling Point Within A Wetland? No							
Remarks:				eld that was i	ot planted	I this vea	r and is covere						
Remarks: The sample site is located in an old farm field that was not planted this year and is covered in weeds. The field drains into a roadside ditch to the west. The region has received above-average rainfall in recent weeks.													
HYDROLOG			.										
		icators (Check all	that apply:	Ainimum of or	o primary	or two se	acondary requi	rod).					
Primary:			i that apply, i		le primary		econuary requi	ieu).	Secondary				
	A1 - Surface	Water			B11 - Salt	Crust				- B6 - Surface Soil Cracks			
-	A2 - High Wa									B8 - Sparsely Vegetated Concave Surface			
	A3 - Saturatio B1 - Water M						B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)						
	B2 - Sedimen			ä	C2 - Dry S C3 - Oxidiz	zed Rhizos	spheres on Living	Roots (not till					
	B3 - Drift Dep	osits			C4 - Prese	ence of Re	duced Iron			C9 - Saturation Visible on Aerial Imagery			
	B4 - Algal Ma						ace						
	B5 - Iron Dep B7 - Inundatio	osits on Visible on Aerial Im	agery		Other (Exp	nain)				D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F)			
	B9 - Water-S		lagery						_				
Field Observ	vations:												
Surface Wate	er Present?	Yes 🛛	Dep	h:	(in.)			Wotland H	lydrology	Present? Y			
Water Table		Yes 🗹	Dep	h: 8	(in.)			Wettanta i	iyarology				
Saturation Pr	resent?	Yes 🗹	Dep	h: 8	(in.)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Remarks: Recent/ongoing rains have contributed to the elevated water table and saturation depths.													
Remarks:	Recent/ong	oing rains have co	ontributed to	he elevated v									
	Recent/ong	oing rains have co	ontributed to	he elevated v									
SOILS	- -	Ū			vater table	and satu	uration depths.						
SOILS Profile Descri	iption (Descr	ibe to the depth ne	eded to doc	ument the ind	vater table	and satu	uration depths. e absence of ir						
SOILS Profile Descri	iption (Descr	Ū	eded to doc	ument the ind	vater table	and satu	uration depths. e absence of ir						
SOILS Profile Descri	iption (Descr	ibe to the depth ne etion, RM=Reduced Ma	eded to doc	ument the ind	vater table	and satu onfirm the tion: PL=P	uration depths. e absence of ir ore Lining, M=Matr						
SOILS Profile Descri (Type: C=Concer	iption (Descr	ibe to the depth ne etion, RM=Reduced Ma Matrix	eeded to doc atrix, CS=Cove	ument the ind ed/Coated Sand	vater table icator or co Grains; Loca	and satu onfirm the tion: PL=Pe Mottle	e absence of ir ore Lining, M=Matr	rix)	Texture	Remarks			
SOILS Profile Descri (Type: C=Concer Depth (In.)	ption (Descr	ibe to the depth ne etion, RM=Reduced Mi Matrix Color (Moist)	eded to doc	ument the ind ed/Coated Sand	vater table icator or co Grains; Loca	and satu onfirm the tion: PL=P	uration depths. e absence of ir ore Lining, M=Matr		Texture	Remarks			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5	ption (Descr ntration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to doc atrix, CS=Cover	ument the ind ed/Coated Sand Color (vater table	and satu onfirm the tion: PL=Po Mottle	uration depths. e absence of ir ore Lining, M=Matr es Type	Location	С	Remarks			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12	ption (Descr	ibe to the depth ne etion, RM=Reduced Mi Matrix Color (Moist)	eeded to doc atrix, CS=Cover	Color (Hue_2.5Y	vater table icator or co Grains; Loca	and satu onfirm the tion: PL=P Mottle %	e absence of ir ore Lining, M=Mat es Type D	Location M		Remarks			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12	ption (Descr ntration, D=Depi Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to doc atrix, CS=Cover	Color (Hue_2.5Y	water table icator or co Grains; Loca Moist) 4/1 4/4	and satu onfirm the tion: PL=Po Mottle	uration depths. e absence of ir ore Lining, M=Matr es Type	Location	C C				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12	ption (Descr ntration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1	eeded to doc atrix, CS=Cover % 10 80	Color (Hue_2.5Y	water table icator or co Grains; Loca Moist) 4/1 4/4	and satu onfirm the tion: PL=Pr Mottle % 15 5	e absence of ir ore Lining, M=Matr es Type D C	Location M M	C C C	Remarks			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12	ption (Descr ntration, D=Depi Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1	eeded to doc atrix, CS=Cover % 10 80	Color (Hue_2.5Y	water table icator or co Grains; Loca Moist) 4/1 4/4	and satu onfirm the tion: PL=Pr Mottle % 15 5	e absence of ir ore Lining, M=Matr es Type D C	Location M M	C C C				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18	ption (Descr ntration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1	eeded to doc atrix, CS=Cover % 10 80 60 60	Color (Hue_2.5Y Hue_10YF	Moist) 4/1 4/4 2/1	And satu	e absence of ir ore Lining, M=Matr es Type D C	Location M M	C C C				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18	ption (Descr ntration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1	eeded to doc atrix, CS=Cover % 10 80 60 60	Color (Hue_2.5Y	Moist) 4/1 4/4 2/1	And satu	e absence of ir ore Lining, M=Matr es Type D C C	Location M M	C C C				
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18 NRCS Hydr	ption (Descr tration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 2/1 4/1 4/1 Indicators (ch	eeded to doc atrix, CS=Cover % 10 80 60 60 60 60 60 60 60 60 60 60 60 60 60	Color (Color (Hue_2.5Y Hue_2.5Y Hue_10YR dicators are	Water table	And satu	e absence of ir ore Lining, M=Matr es Type D C C	Location M M M	C C C C Indicators A9 - 1 cm M	Layer is a mix of colors; no redox present. for Problematic Soils ¹ //uck (LRR I, J)			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18 NRCS Hydr	ption (Descr tration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 Indicators (ch ipedon	eeded to doc atrix, CS=Cover % 10 80 60 60 heck here if i	Ument the ind ed/Coated Sand Color () Hue_2.5Y Hue_2.5Y Hue_10YR indicators are S5 - Sandy F S6 - Stripped	Moist) 4/1 4/4 2/1 Redox	and satu onfirm the tion: PL=P- Mottle % 15 5 40 + + + + + + + + + + + + + + + + + +	e absence of ir ore Lining, M=Matr es Type D C C	Location M M M	C C C C Indicators A9 - 1 cm M A16 - Cost	Layer is a mix of colors; no redox present. for Problematic Soils ¹ //uck (LRR I, J) Prairie Redox (LRR F, G, H)			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hit	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 Indicators (ch spedon stic	eeded to doc atrix, CS=Cover % 10 80 60 60 neck here if i	Ument the ind ed/Coated Sand Color (Hue_2.5Y Hue_2.5Y Hue_10YR dicators are S5 - Sandy F S6 - Strippec F1 - Loamy f	Moist) 4/1 4/4 2/1 Redox I Matrix Jucky Miner	and satu onfirm the tion: PL=P- Mottle % 15 5 40 t): al	e absence of ir ore Lining, M=Matr es Type D C C	Location M M M	C C C C Indicators A9 - 1 cm M A16 - Cost I S7 - Dark S	Layer is a mix of colors; no redox present. for Problematic Soils ¹ Muck (LRR I, J) Prairie Redox (LRR F, G, H) Surface (LRR G)			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18 NRCS Hydr	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 Indicators (ch spedon stic	eeded to doc atrix, CS=Cover % 10 80 60 60 heck here if i	Ument the ind ed/Coated Sand Color () Hue_2.5Y Hue_2.5Y Hue_10YR indicators are S5 - Sandy F S6 - Stripped	vater table icator or co Grains; Loca Moist) 4/1 4/4 2/1 anot presen Redox I Matrix Mucky Miner Sleyed Matri	and satu onfirm the tion: PL=P- Mottle % 15 5 40 t): al	e absence of ir ore Lining, M=Matr es Type D C C	Location M M M	C C C C Indicators A9 - 1 cm M A16 - Cost I S7 - Dark S	Layer is a mix of colors; no redox present. for Problematic Soils ¹ Auck (LRR I, J) Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73)			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18 NRCS Hydr	ption (Descr tration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hii A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced Mi Color (Moist) 2/1 2/1 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	eeded to doc atrix, CS=Cover % 10 80 60 60 10 60 10 10 60 10 10 10 10 10 10 10 10 10 10 10 10 10	Color (Color (Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_10YR dicators are \$5 - Sandy F \$6 - Stripped F1 - Loamy (F3 - Deplete F6 - Redox I	Avater table	and satu onfirm the tion: PL=Per Mottle 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 5 40 15 5 5 40 15 5 5 40 15 5 5 40 15 5 5 40 15 5 5 40 15 15 15 15 15 15 15 15 15 15	e absence of ir ore Lining, M=Matr es Type D C C	Location M M M	C C C C A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High I F18 - Redu TF2 - Red F	for Problematic Soils ¹ Muck (LRR I, J) Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73) ced Vertic Parent Material			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_20YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eded to doc atrix, CS=Cover	Ument the ind ed/Coated Sand Color (Hue_2.5Y Hue_2.5Y Hue_10YR dicators are S5 - Sandy F S6 - Stripper F1 - Loamy f F2 - Loamy (F3 - Depleter F7 - Depleter	Vater table	and satu onfirm the tion: PL=Per Mottle 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 5 40 15 5 5 40 15 5 5 40 15 5 5 40 15 5 5 40 15 5 5 40 15 15 15 15 15 15 15 15 15 15	e absence of ir ore Lining, M=Matr es Type D C C	Location M M M	C C C C A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High I F18 - Redur TF2 - Red F TF12 - Very	for Problematic Soils1 Muck (LRR I, J) Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outlide MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18 NRCS Hydr	ption (Descr tration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hii A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eeded to doc atrix, CS=Cover % 10 80 60 heck here if i	Ument the ind ed/Coated Sand Color () Hue_2.5Y Hue_2.5Y Hue_10YF Hue_10YF S5 - Sandy F S6 - Strippec F1 - Loamy f F2 - Loamy f F3 - Deplete F3 - Deplete F8 - Redox E F8 - Redox E F8 - Redox E	Avater table icator or co Grains; Loca Moist) 4/1 4/4 2/1 2/1 anot presen Redox I Matrix Mucky Miner Gleyed Matri J Matrix Joark Surface d Dark Surface bepressions	and satu onfirm th tion: PL=P Mottle % 15 5 40 15 s 40 15 s 40 15 s 40 15 s 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 15 15 15 15 15 15 15 15 15	e absence of ir ore Lining, M=Matr es Type D C C	Location M M M	C C C C A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High I F18 - Redur TF2 - Red F TF12 - Very	for Problematic Soils ¹ Muck (LRR I, J) Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73) ced Vertic Parent Material			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18 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_20YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratifica A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 2/1 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (L	eded to doc atrix, CS=Cover % 10 80 60 heck here if i	Ument the ind ed/Coated Sand Color () Hue_2.5Y Hue_2.5Y Hue_10YF Hue_10YF S5 - Sandy F S6 - Strippec F1 - Loamy f F2 - Loamy f F3 - Deplete F3 - Deplete F8 - Redox E F8 - Redox E F8 - Redox E	Avater table icator or co Grains; Loca Moist) 4/1 4/4 2/1 2/1 anot presen Redox I Matrix Mucky Miner Gleyed Matri J Matrix Joark Surface d Dark Surface bepressions	and satu onfirm th tion: PL=P Mottle % 15 5 40 15 s 40 15 s au x au x	uration depths. e absence of ir ore Lining, M=Matri es Type D C C C ∠	Location M M M	C C C C A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High I F18 - Redur TF2 - Red F TF12 - Very	for Problematic Soils1 Muck (LRR I, J) Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outlide MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18 NRCS Hydr	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_20YR Hue_25Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LR cky Peat or Peat (LR	eded to doc atrix, CS=Cover % 10 80 60 heck here if i	Ument the ind ed/Coated Sand Color () Hue_2.5Y Hue_2.5Y Hue_10YF Hue_10YF S5 - Sandy F S6 - Strippec F1 - Loamy f F2 - Loamy f F3 - Deplete F3 - Deplete F8 - Redox E F8 - Redox E F8 - Redox E	Avater table icator or co Grains; Loca Moist) 4/1 4/4 2/1 2/1 anot presen Redox I Matrix Mucky Miner Gleyed Matri J Matrix Joark Surface d Dark Surface bepressions	and satu onfirm th tion: PL=P Mottle % 15 5 40 15 s 40 15 s au x au x	uration depths. e absence of ir ore Lining, M=Matri es Type D C C C ∠	Location M M M	C C C C A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High I F18 - Redur TF2 - Red F TF12 - Very Other (Expla	Layer is a mix of colors; no redox present. for Problematic Soils ¹ Muck (LRR I, J) Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outlisde MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface ain in Remarks) hydrophytic vegetation and wetland hydrology must be present,			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18 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_20YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratifica A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LR cky Peat or Peat (LR	eded to doc atrix, CS=Cover % 10 80 60 heck here if i	Ument the ind ed/Coated Sand Color () Hue_2.5Y Hue_2.5Y Hue_10YF Hue_10YF S5 - Sandy F S6 - Strippec F1 - Loamy f F2 - Loamy f F3 - Deplete F3 - Deplete F8 - Redox E F8 - Redox E F8 - Redox E	Avater table icator or co Grains; Loca Moist) 4/1 4/4 2/1 2/1 anot presen Redox I Matrix Mucky Miner Gleyed Matri J Matrix Joark Surface d Dark Surface bepressions	and satu onfirm th tion: PL=P Mottle % 15 5 40 15 s 40 15 s au x au x	uration depths. e absence of ir ore Lining, M=Matri es Type D C C C ∠	Location M M M	C C C C A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High I F18 - Redur TF2 - Red F TF12 - Very Other (Expla	for Problematic Soils1 Muck (LRR I, J) Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface ain in Remarks)			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18 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_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral Mucky Peat or Peat (LR leyed Matrix	eded to doc atrix, CS=Cover % 10 80 60 heck here if i	Ment the ind ed/Coated Sand Color (Hue_2.5Y Hue_2.5Y Hue_10YR Micators are S5 - Sandy F S6 - Stripper F1 - Loamy f F2 - Loamy (F3 - Deplete F6 - Redox E F7 - Deplete F8 - Redox E F16 - High P	Vater table	and satu onfirm th tion: PL=P Mottle % 15 5 40 15 s 40 15 s au x au x	ration depths. e absence of ir ore Lining, M=Matrices Type D C C C RA 72, 73 of LRF	Location M M M	C C C C A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High I F18 - Redur TF2 - Red F TF12 - Very Other (Expla	Layer is a mix of colors; no redox present. for Problematic Soils ¹ Muck (LRR I, J) Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outlisde MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface ain in Remarks) hydrophytic vegetation and wetland hydrology must be present,			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18 NRCS Hydr	ption (Descr tration, D=Depi Hue_10YR Hue_10YR Hue_20YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratificd A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral Mucky Peat or Peat (LR leyed Matrix	eded to doc atrix, CS=Cover % 10 80 60 heck here if i	Ument the ind ed/Coated Sand Color () Hue_2.5Y Hue_2.5Y Hue_10YF Hue_10YF S5 - Sandy F S6 - Strippec F1 - Loamy f F2 - Loamy f F3 - Deplete F3 - Deplete F8 - Redox E F8 - Redox E F8 - Redox E	Vater table	and satu onfirm th tion: PL=P Mottle % 15 5 40 15 s 40 15 s au x au x	ration depths. e absence of ir ore Lining, M=Matrices Type D C C C RA 72, 73 of LRF	Location M M M	C C C C A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High I F18 - Redur TF2 - Red F TF12 - Very Other (Expla	Layer is a mix of colors; no redox present. for Problematic Soils ¹ Muck (LRR I, J) Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outlisde MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface ain in Remarks) hydrophytic vegetation and wetland hydrology must be present,			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 5-12 12-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	ption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A4 - Hydroge A5 - Stratified A1 - Deplete A1 - Stardy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 2/1 4/1 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral fucky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR)	eeded to doc atrix, CS=Cover % 10 80 60 60 60 60 60 60 60 60 60 60 60 60 60	Ument the ind ed/Coated Sand Color (Hue_2.5Y Hue_2.5Y Hue_10YR Hue_10YR S5 - Sandy F S6 - Strippec S6 - Strippec S6 - Strippec F1 - Loamy (F3 - Depleted F6 - Redox I F6 - Redox I F6 - Redox I F16 - High P	vater table	and satu onfirm th ition: PL=P Mottle % 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 5 5 40 5 5 5 5 5 5 5 5 5 5 5 5 5	Iration depths. e absence of ir ore Lining, M=Matrices Type D C C C E RA 72, 73 of LRF Hydric So	Location M M M M	C C C C A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High I F18 - Redur TF2 - Red F TF12 - Very Other (Expla	Layer is a mix of colors; no redox present. for Problematic Soils ¹ Muck (LRR I, J) Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outlisde MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface ain in Remarks) hydrophytic vegetation and wetland hydrology must be present,			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-12 12-18 NRCS Hydr	ption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A4 - Hydroge A5 - Stratified A1 - Deplete A1 - Stardy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 4/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral Mucky Peat or Peat (LR leyed Matrix	eeded to doc atrix, CS=Cover % 10 80 60 60 60 60 60 60 60 60 60 60 60 60 60	Ument the ind ed/Coated Sand Color (Hue_2.5Y Hue_2.5Y Hue_10YR Hue_10YR S5 - Sandy F S6 - Strippec S6 - Strippec S6 - Strippec F1 - Loamy (F3 - Depleted F6 - Redox I F6 - Redox I F6 - Redox I F16 - High P	vater table	and satu onfirm th ition: PL=P Mottle % 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 15 5 40 5 5 40 5 5 5 5 5 5 5 5 5 5 5 5 5	Iration depths. e absence of ir ore Lining, M=Matrices Type D C C C E RA 72, 73 of LRF Hydric So	Location M M M M	C C C C A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High I F18 - Redur TF2 - Red F TF12 - Very Other (Expla	Layer is a mix of colors; no redox present. for Problematic Soils ¹ Muck (LRR I, J) Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outlisde MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface ain in Remarks) hydrophytic vegetation and wetland hydrology must be present,			

WETLAND DETERMINATION DATA FORM

Great Plains Region

VECETATION Opener distributed is all appendage and maked speciels.) Tree Structure (Pot size: 30 it radius) Score Dominance Test Worksheet 1	Project/Site:	L3R				Sample Point: u-158n48w6-b1
Tree Strutum (Pot size: 30 ft. radius) Dominance Test Worksheet 1						
Species Name % Cover Dominance Test Worksheet 1 2			e non-native	e species.)		
2			% Cover	Dominant	Ind.Status	Dominance Test Worksheet
3.						
4						Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
5.						
6 Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B) 7						Total Number of Dominant Species Across All Strata: <u>4</u> (B)
7.						Becaut of Deminant Species That Are OPL EACIN, or EAC: 25.0% (A/P)
8 Prevalence Index Worksheet 9. Total Cover = 0 Total Sover d: Mattaly br. 10. Total Cover = 0 FACW spp. x 1 = 0 Sapiling/Shrub Stratum (Plot size: 15 ft, radius) FACW spp. x 4 = 40 2.						Percent of Dominant Species That Are OBL, PACW, of PAC. 23.0% (Arb)
9. Total Cover =						Prevalence Index Worksheet
10. Total Cover = 0 X 1 = 0 Sapting/Shub Stratum (Plot size: 15 ft: radius) FAC 98 pp X 4 = 0 2. FAC 98 pp X 4 = 3. 4. 6. 9.		<u> </u>				
Total Cover =						
	-	Total Cover =	0			
Sapling/Shub Stratum (Plot size: 15 ft. radius) FACU spo. 10 x 4 = 40 1				_		FAC spp. 0 x $3 = 0$
2.	Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 10 x 4 = 40
3.						UPL spp. <u>5</u> x 5 = <u>25</u>
4.						
5. Prevalence Index = B/A = 6.						Total 20 (A) 75 (B)
6.						
7.		<u> </u>				Prevalence Index = B/A = <u>3.750</u>
8.						
9.						Hydrophytic Vagatation Indicators:
10. Total Cover =		<u> </u>				1
Total Cover =		<u> </u>				
Herb Stratum (Plot size: 5 ft. radius)	10.	Total Cover =	0			
Herb Stratum (Plot size: 5 ft. radius) 1. Rurrex sterophylics 5 Y FACW 2. Erucastrum galicum 5 Y NI 3. Artenisis annua 5 Y FACU 5. S Y FACU Problem Hydrophytic Vegetation (Explain)* 4. Elymus repens 5 Y FACU 5.				_		
1. Rumex stengaptylus 5 Y FACW 2. Excesstrum galicum 5 Y NI 3. Artemisia annua 5 Y FACU 4. Eymus repens 5 Y FACU 5. Y FACU Definitions of Vegetation Strata: 5. Y FACU Definitions of Vegetation Strata: 6. Y Y FACU 6. Y FACU Definitions of Vegetation Strata: 7. Y Y Not the interval of th	Herb Stratum (I	Plot size: 5 ft. radius)				
3. Artemisia annua 5 Y FACU present, unless disturbed or problematic. 4. Elymus repens 5 Y FACU Definitions of Vegetation Strata: 5.			5	Y	FACW	
3. Predmata anida 3 1 1000 4. Elymus repens 5 Y FACU Definitions of Vegetation Strata: 5. 5 Y FACU Definitions of Vegetation Strata: 6. 7. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. 10. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. 11. </td <td>2.</td> <td>Erucastrum gallicum</td> <td>5</td> <td>Y</td> <td>NI</td> <td></td>	2.	Erucastrum gallicum	5	Y	NI	
5.		Artemisia annua				
6		Elymus repens	5	Y	FACU	Definitions of Vegetation Strata:
7. height (DBH), regardless of height. 8.						
N						I ree - Woody plants 3 in. (7.6cm) or more in diameter at breast beight (DBH) regardless of beight
9.					-	
10.						Sanling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
11.					-	
12.						
13.						Herb - All herbaceous (non-woody) plants, regardless of size.
15. Woody Vines - All woody vines, regardless of height. Total Cover = 20 Woody Vine Stratum (Plot size: 30 ft. radius)						
Total Cover =20	14.					
Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 5. 4. Total Cover = 0	15.					Woody Vines - All woody vines, regardless of height.
1.		Total Cover =	20	_		
1.						
2.		ratum (Plot size: 30 ft. radius)				
3. Hydrophytic Vegetation Present? N 5.						
5						Hudronbutio Verstetian Descent?
4. Total Cover = 0					<u>.</u>	
Total Cover = 0		,				
	-т.	Total Cover =	0			
	Remarks:			s.		
Additional Remarks:						
	L					