WETLAND DETERMINATION DATA FORM Great Plains Region

		1										
Project/Site:		L3R									Date:	10/14/14
Applicant:		Enbridge									County:	Red Lake
Investigators	s:	KRG/BCS				Subregion	n (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	I59A						•	Classification:			- 10.101	
Landform:	Talf				Lo	al Relief:		Classification			Camala Daint	4E4m40w24 k4
				. =							Sample Point:	u-151n42w24-k1
Slope (%):	0 - 2%		Latitude: 4			Longitude:			Datum:			
Are climatic/	hydrologic co	onditions on the site	e typical fo	or this	s time of yea	I r? (If no, exp	olain in rema	arks)	⊡Yes	□ No	Section:	
Are Vegetati	on 🛘 Soi	I ☐ or Hydrology	□anifica	antly	disturbed?		Are	normal circun	nstances pr	esent?	Township:	
Are Vegetati		I □ or Hydrology						Yes	□No .		Range:	Dir:
			Litturany	y proc	nematic:			1 100			rtange.	DII.
SUMMARY (
Hydrophytic	Vegetation F	resent?	Y	es/					Hydric Soi	Is Present?	No	
Wetland Hyd	drology Prese	ent?	N	No					Is This Sa	mplina Poir	nt Within A W	etland? No
Remarks:					wood forest	communi	hy domina	ated by guakin				ens and other forbs in the
rtcinarto.	ground laye		cated iii a	inara	wood lorest	communi	ty domini	ated by quakin	g dopen and	a bui ouit, v	vitir yellow ave	cho and other forboin the
	,	āl.										
HYDROLOG	Υ											
Wetland Us	drology Ind	licatora (Chaok all	that annly	v. Mis	imum of on	o primarı	or two or	acandan, roqui	rod\.			
		licators (Check all	ı ınaı appıy	y, iviii	iirriurri or ori	e primary	or two se	econdary requi	reu).			
Primary					_	D44 0 "				Secondary:		
	A1 - Surface					B11 - Salt (B6 - Surface S	
	A2 - High Wa					B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation					C1 - Hydro					B10 - Drainage	
	B1 - Water M					C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sedimer							pheres on Living	Roots (not till		C8 - Crayfish E	
	B3 - Drift Dep	oosits				C4 - Prese	nce of Red	duced Iron				Note:
	B4 - Algal Ma	t or Crust				C7 - Thin N	luck Surfa	ice			D2 - Geomorp	hic Position
	B5 - Iron Dep	osits				Other (Exp	lain)				D5 - FAC-Neut	tral Test
I 🗆	B7 - Inundation	on Visible on Aerial Im	nagery			` '	,				D7 - Frost-Hea	aved Hummocks (LRR F)
I =		tained Leaves	- 3 - 7							_		,
_												
Field Obser	vations:											
Surface Wat	er Present?	Yes	D	Depth:		(in.)						A.1
Water Table	Present?	Yes \Box	D)enth:		(in.)			Wetland F	lydrology	Present?	N
												
Saturation P	resent?	Yes \square	D	Depth:		(in.)						
			_			()						
Describe Rec	orded Data (stream gauge, moni				. ,	ections).	if available:				
		stream gauge, moni	itoring well	I, aeria	al photos, pre	vious insp		if available:				
Describe Rec Remarks:		stream gauge, moni	itoring well	I, aeria	al photos, pre	vious insp		if available:				
			itoring well	I, aeria	al photos, pre	vious insp		if available:				
			itoring well	I, aeria	al photos, pre	vious insp		if available:				
Remarks:	No primary	or secondary indic	itoring well cators of w	I, aeria vetlan	al photos, pre d hydrology	evious insp were obs	erved.		ndicators.)			
Remarks: SOILS Profile Descr	No primary	or secondary indicates in the secondary indicate	itoring well cators of w	I, aeria	al photos, pred hydrology	were obs	erved.	e absence of ir				
Remarks: SOILS Profile Descr	No primary	or secondary indic	itoring well cators of w	I, aeria	al photos, pred hydrology	were obs	erved.	e absence of ir				
Remarks: SOILS Profile Descr	No primary	or secondary indicates	itoring well cators of w	I, aeria	al photos, pred hydrology	were obs	erved. onfirm the	e absence of ir		I		
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	or secondary indicates in the depth neletion, RM=Reduced Matrix	itoring well cators of w	I, aeria	al photos, pre d hydrology nent the indic (Coated Sand C	evious insp were obs cator or co	erved. onfirm the dion: PL=Po	e absence of ir ore Lining, M=Matr	rix)			
Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Descr	or secondary indicates in the depth neletion, RM=Reduced Matrix Color (Moist)	itoring well cators of w eeded to d atrix, CS=Co	I, aeria wetlan docum overed/	al photos, pred hydrology	evious insp were obs cator or co	erved. onfirm the	e absence of ir		Texture		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	or secondary indicates in the depth neletion, RM=Reduced Matrix	itoring well cators of w eeded to d atrix, CS=Co	I, aeria	al photos, pre d hydrology nent the indic (Coated Sand C	evious insp were obs cator or co	erved. onfirm the dion: PL=Po	e absence of ir ore Lining, M=Matr	rix)	Texture		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Descriptration, D=Dep	ibe to the depth neletion, RM=Reduced Matrix Color (Moist) 2/1	eeded to datrix, CS=Co	I, aerian docum overed/	al photos, pre d hydrology nent the indic (Coated Sand C	evious insp were obs cator or co	erved. onfirm the dion: PL=Po	e absence of ir ore Lining, M=Matr	rix)	SICL		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce) Depth (In.) 0-4 4-12	No primary iption (Description, D=Dep	ibe to the depth neletion, RM=Reduced Matrix Color (Moist) 2/1 6/1	itoring well cators of w eeded to d atrix, CS=Co	I, aeria wetlan docum overed/	al photos, pre d hydrology nent the india Coated Sand C	evious insp were obs cator or co Grains; Local Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	SICL FSL		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12	No primary iption (Description, D=Dep Hue_10YR Hue_10YR Hue_10YR	or secondary indicates in the depth of the depth of the depth of the depth of the detection, RM=Reduced Missing Matrix Color (Moist) 2/1 6/1 4/3	itoring well cators of w eeded to d atrix, CS=Co	l, aeria vetlan docum overed/ % 100 50 40	al photos, pred hydrology hent the indial Coated Sand	evious insp were obs cator or co Grains; Locat Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location M	SICL FSL SCL		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce) Depth (In.) 0-4 4-12	No primary iption (Description, D=Dep	ibe to the depth neletion, RM=Reduced Matrix Color (Moist) 2/1 6/1	itoring well cators of w eeded to d atrix, CS=Co	l, aeria vetlan docum overed/ % 100 50 40	al photos, pre d hydrology nent the india Coated Sand C	evious insp were obs cator or co Grains; Local Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	SICL FSL		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12	No primary iption (Description, D=Dep Hue_10YR Hue_10YR Hue_10YR	or secondary indicates in the depth of the depth of the depth of the depth of the detection, RM=Reduced Missing Matrix Color (Moist) 2/1 6/1 4/3	itoring well cators of w eeded to d atrix, CS=Co	l, aeria vetlan docum overed/ % 100 50 40	al photos, pred hydrology hent the indial Coated Sand	evious insp were obs cator or co Grains; Locat Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location M	SICL FSL SCL		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12	No primary iption (Description, D=Dep Hue_10YR Hue_10YR Hue_10YR	or secondary indicates in the depth of the depth of the depth of the depth of the detection, RM=Reduced Missing Matrix Color (Moist) 2/1 6/1 4/3	itoring well cators of w eeded to d atrix, CS=Co	l, aeria vetlan docum overed/ % 100 50 40	al photos, pred hydrology hent the indial Coated Sand	evious insp were obs cator or co Grains; Locat Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location M	SICL FSL SCL		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18	No primary iption (Description, D=Dep Hue_10YR Hue_10YR Hue_10YR	or secondary indicates	eeded to datrix, CS=Co	l, aeria wetlan docum overed/ % 100 50 40 95	al photos, pred hydrology ment the indice Coated Sand	evious insp were obs cator or co crains; Local Moist)	onfirm the cion: PL=Pc Mottle % 10 5	e absence of ir ore Lining, M=Matr es Type C C	Location M	SICL FSL SCL		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18	No primary iption (Description, D=Dep Hue_10YR Hue_10YR Hue_10YR	or secondary indicates	eeded to datrix, CS=Co	l, aeria wetlan docum overed/ % 100 50 40 95	al photos, pred hydrology ment the indice Coated Sand	evious insp were obs cator or co crains; Local Moist)	onfirm the cion: PL=Pc Mottle % 10 5	e absence of ir ore Lining, M=Matr es Type	Location M	SICL FSL SCL		Remarks
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18	No primary iption (Description, D=Dep Hue_10YR Hue_10YR Hue_10YR	or secondary indicates	eeded to datrix, CS=Co	l, aeria wetlan docum overed/ % 100 50 40 95	al photos, pred hydrology hent the indial Coated Sand	evious insp were obs cator or co crains; Local Moist)	onfirm the cion: PL=Pc Mottle % 10 5	e absence of ir ore Lining, M=Matr es Type C C	Location M	SICL FSL SCL SCL	for Problematic	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydr	No primary iption (Description, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR	or secondary indicates	eeded to datrix, CS=Co	l, aeria wetlan docum overed % 100 50 40 95	al photos, pred hydrology ment the indidicoated Sand Cooler (Note: The prediction of	evious insp were obs cator or cc Grains; Local Moist) 4/6 4/6 ot presen	onfirm the cion: PL=Pc Mottle % 10 5	e absence of ir ore Lining, M=Matr es Type C C	Location M M	SICL FSL SCL SCL	for Problematic	
Remarks: SOILS Profile Descr (Type: C=Conce) Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydi	No primary iption (Description, D=Deportment of Description) Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol	or secondary indications or secondary indicators ibe to the depth neletion, RM=Reduced Mi Matrix Color (Moist) 2/1 6/1 4/3 4/2 Indicators (ch	eeded to datrix, CS=Co	I, aeria Noverlan Noverl	al photos, pred hydrology ment the indidicoated Sand Coolor (No. 17.5YR Hue_7.5YR Hue_7.5YR S5 - Sandy Research Sandy Research S5 - Sandy Research	evious insp were observed on control of the control	onfirm the cion: PL=Pc Mottle % 10 5	e absence of ir ore Lining, M=Matr es Type C C	Location M M	SICL FSL SCL SCL Indicators 1	luck (LRR I, J)	c Soils ¹
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydr	No primary iption (Description, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	or secondary indication or secondary indicators ibe to the depth neletion, RM=Reduced Missing Matrix Color (Moist) 2/1 6/1 4/3 4/2 I Indicators (chapping depth of the color	eeded to datrix, CS=Co	I, aeria I, aeria II, aeria II, aeria III III III III III III III III III I	al photos, pred hydrology hent the indial (Coated Sand Coated Sand	evious insp were obs cator or cc Grains; Local Moist) 4/6 4/6 ot presen	months and the served. Mottle Mottle 10 5	e absence of ir ore Lining, M=Matr es Type C C	Location M M	SICL FSL SCL SCL Indicators 1 A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydi	No primary iption (Description, D=Deportment of Description) Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol	or secondary indication or secondary indicators ibe to the depth neletion, RM=Reduced Missing Matrix Color (Moist) 2/1 6/1 4/3 4/2 I Indicators (chapping depth of the color	eeded to datrix, CS=Co	l, aeria locum wetlan % 100 50 40 95 if indi	al photos, pred hydrology hent the indial (Coated Sand Coated Sand	evious insp were obs cator or cc Grains; Local Moist) 4/6 4/6 ot presen	months of the served.	e absence of ir ore Lining, M=Matr es Type C C	Location M M	SICL FSL SCL SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox (urface (LRR G)	: <u>Soils¹</u> LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydr	No primary iption (Description, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	ibe to the depth ne letion, RM=Reduced Mileton, RM=Reduced Mileton (Moist) 2/1	eeded to datrix, CS=Co	l, aeria locum wetlan % 100 50 40 95 if indi	al photos, pred hydrology hent the indial (Coated Sand Coated Sand	evious insp were obs cator or cc Grains; Local Moist) 4/6 4/6 ot presen	months of the served.	e absence of ir ore Lining, M=Matr es Type C C	Location M M	SICL FSL SCL SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydi	No primary iption (Description, D=Dep Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	ibe to the depth ne letion, RM=Reduced Mileton, RM=Reduced Mileton (Moist) 2/1	eeded to datrix, CS=Co	I, aeria wetlan docum overed/ % 100 50 40 95	al photos, pred hydrology hent the indial (Coated Sand Coated Sand	evious insp were obs cator or co Grains; Local Moist) 4/6 4/6 4/6 ot presen edox Matrix ucky Mineraleyed Matrix	months of the served.	e absence of ir ore Lining, M=Matr es Type C C	Location M M	SICL FSL SCL SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: <u>Soils¹</u> LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydr	No primary iption (Description, D=Deportment of Description, D=Deportment of D=Deportment of Description, D=Deportment of D=Deportment	or secondary indicators ibe to the depth neletion, RM=Reduced Matrix Color (Moist) 2/1 6/1 4/3 4/2 Indicators (chapted on stice in Sulfide	eeded to datrix, CS=Co	I, aerialia II, aerialia II, aerialia II, aerialia III, ae	ent the indidicated Sand Coated Sand Coate	evious insp were obs cator or cc Grains; Locat Moist) 4/6 4/6 ot presen edox Matrix ucky Mineraleyed Matrix Matrix Matrix	months and the served. months are served. months and the served. months are served. months and the served. months are	e absence of ir ore Lining, M=Matr es Type C C	Location M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: <u>Soils¹</u> LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Description, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiet A9 - 1 cm Mu	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 6/1 4/3 4/2 Indicators (ch	eeded to deatrix, CS=Co	I, aerial docum do	color (N Hue 7.5YR Hue 7.5YR Cated Sand R Cated Sand R S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted	evious insp were obs cator or cc Grains; Local Moist) 4/6 4/6 ot presen edox Matrix ucky Mineral Matrix ark Surface	months and the control of the contro	e absence of ir ore Lining, M=Matr es Type C C	Location M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Conce) Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydi	No primary iption (Description (Description) (Description	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 6/1 4/3 4/2 Indicators (characters) Indicators (characters) Indicators (characters) Indicators (LRR F)	eeded to deatrix, CS=Co	I, aerial la composition la composit	al photos, pred hydrology hent the indial (Coated Sand Coated Sand	evious insp were obs cator or cc Grains; Local Moist) 4/6 4/6 ot presen edox Matrix ucky Minera leyed Matrix Matrix ark Surface Dark Surface	months and the control of the contro	e absence of ir ore Lining, M=Matr es Type C C	Location M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Red uc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression and Vertic Parent Material Shallow Dark S	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydr	Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 10YR A1- Histosol A2 - Histic E ₁ A3 - Black Hi A4 - Hydroge A5 - Stratifier A9 - 1 cm M ₁ A11 - Deplete A12 - Thick E	or secondary indications of secondary indications in the depth neterion, RM=Reduced Matrix Color (Moist) 2/1 6/1 4/3 4/2 Indicators (chapted on stice in Sulfide it Layers (LRR F) tock (LRR FGH) add Below Dark Surface in Surface	eeded to deatrix, CS=Co	l, aerialia docum	cal photos, pred hydrology ment the indidicoated Sand Coolor (Note: The indidicoated Sand Coolor (Note: The individual Sand Coolor (Note: The individual Sand Sand Sand Sand Sand Sand Sand Sand	evious insp were obs cator or co Grains; Local Moist) 4/6 4/6 4/6 ot presen edox Matrix ucky Mineraleyed Matrix Matrix Matrix ark Surface Dark Surface	months and the control of the contro	e absence of ir	Location M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Red uc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Description, D=Depution) Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Er A3 - Black Hi A4 - Hydroge A5 - Stratifier A9 - 1 cm Mt A11 - Deplett A12 - Thick E S1 - Sandy M	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 6/1 4/3 4/2 Indicators (ch sipedon stic n Sulfide d Layers (LRR F) ck (LRR FGH) dd Below Dark Surface lucky Mineral	eeded to datrix, CS=Co	l, aerialia docum	cal photos, pred hydrology ment the indidicoated Sand Coolor (Note: The indidicoated Sand Coolor (Note: The individual Sand Coolor (Note: The individual Sand Sand Sand Sand Sand Sand Sand Sand	evious insp were obs cator or co Grains; Local Moist) 4/6 4/6 4/6 ot presen edox Matrix ucky Mineraleyed Matrix Matrix Matrix ark Surface Dark Surface	months and the control of the contro	e absence of ir ore Lining, M=Matr es Type C C	Location M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Red uc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression and Vertic Parent Material Shallow Dark S	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydi	Hue 10YR Hue	ibe to the depth ne letion, RM=Reduced Mileton, RM=Reduced Mileton	eeded to de atrix, CS=Co	l, aerialia docum	cal photos, pred hydrology ment the indidicoated Sand Coolor (Note: The indidicoated Sand Coolor (Note: The individual Sand Coolor (Note: The individual Sand Sand Sand Sand Sand Sand Sand Sand	evious insp were obs cator or co Grains; Local Moist) 4/6 4/6 4/6 ot presen edox Matrix ucky Mineraleyed Matrix Matrix Matrix ark Surface Dark Surface	months and the control of the contro	e absence of ir	Location M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	2: Soils¹ LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Gurface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydi	Hue 10YR Hue	ibe to the depth ne letion, RM=Reduced Miletion, RM	eeded to de atrix, CS=Co	l, aerialia docum	cal photos, pred hydrology ment the indidicoated Sand Coolor (Note: The indidicoated Sand Coolor (Note: The individual Sand Coolor (Note: The individual Sand Sand Sand Sand Sand Sand Sand Sand	evious insp were obs cator or co Grains; Local Moist) 4/6 4/6 4/6 ot presen edox Matrix ucky Mineraleyed Matrix Matrix Matrix ark Surface Dark Surface	months and the control of the contro	e absence of ir	Location M M	Indicators (1) A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Redur TF2 - Red F TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Parent Material Shallow Dark S ain in Remarks) Anydrophytic vegetat	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydi	Hue 10YR Hue	ibe to the depth ne letion, RM=Reduced Miletion, RM	eeded to de atrix, CS=Co	l, aerialia docum	cal photos, pred hydrology ment the indidicoated Sand Coolor (Note: The indidicoated Sand Coolor (Note: The individual Sand Coolor (Note: The individual Sand Sand Sand Sand Sand Sand Sand Sand	evious insp were obs cator or co Grains; Local Moist) 4/6 4/6 4/6 ot presen edox Matrix ucky Mineraleyed Matrix Matrix Matrix ark Surface Dark Surface	months and the control of the contro	e absence of ir	Location M M	Indicators (1) A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Redur TF2 - Red F TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	2: Soils¹ LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Gurface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydi	Hue 10YR Hue	ibe to the depth ne letion, RM=Reduced Miletion, RM	eeded to de atrix, CS=Co	l, aerialia docum	cal photos, pred hydrology ment the indidicoated Sand Coolor (Note: The indidicoated Sand Coolor (Note: The individual Sand Coolor (Note: The individual Sand Sand Sand Sand Sand Sand Sand Sand	evious insp were obs cator or co Grains; Local Moist) 4/6 4/6 4/6 ot presen edox Matrix ucky Mineraleyed Matrix Matrix Matrix ark Surface Dark Surface	months and the control of the contro	e absence of ir	Location M M	Indicators (1) A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Redur TF2 - Red F TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Parent Material Shallow Dark S ain in Remarks) Anydrophytic vegetat	2: Soils¹ LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Gurface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydi	Hue_10YR Hue	ibe to the depth ne letion, RM=Reduced Miletion, RM	eeded to de atrix, CS=Co	l, aerialia docum	cal photos, pred hydrology ment the indidicoated Sand Coolor (Note: The indidicoated Sand Coolor (Note: The individual Sand Coolor (Note: The individual Sand Sand Sand Sand Sand Sand Sand Sand	evious insp were obs cator or co Grains; Local Moist) 4/6 4/6 4/6 ot presen edox Matrix ucky Mineraleyed Matrix Matrix Matrix ark Surface Dark Surface	months and the control of the contro	e absence of ir ore Lining, M=Matr es Type C C	Location M M C C C C C C C C C C C C C C C C C	Indicators of hundess disturbed	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Parent Material Shallow Dark S ain in Remarks) Anydrophytic vegetat	2: Soils¹ LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Gurface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydr Restrictive Laye	No primary iption (Description, D=Depution) Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Er A3 - Black Hi A4 - Hydroge A5 - Stratifier A9 - 1 cm Mt A11 - Deplett A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mt S4 - Sandy G	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 6/1 4/3 4/2 Indicators (ch sipedon stic n Sulfide d Layers (LRR F) ck (LRR FGH) dd Below Dark Surface Jark Surface lucky Mineral Mucky Peat or Peat (LRI eleyed Matrix	eeded to deatrix, CS=Co	l, aerial,	al photos, pred d hydrology ment the indidicated Sand Coolor (Note: The cool of the cool	evious insp were obs cator or cc Grains; Local Moist) 4/6 4/6 ot presen edox Matrix ucky Mineral ucky Mine	months and the served. months are served. months and the served. months are served. months and the served. months are ser	e absence of ir ore Lining, M=Matr es Type C C C	Location M M M II Present?	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (Prairie Redox	E Soils¹ LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Burface ion and wetland hydrology must be present,
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydi	No primary iption (Description, D=Depution) Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Er A3 - Black Hi A4 - Hydroge A5 - Stratifier A9 - 1 cm Mt A11 - Deplett A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mt S4 - Sandy G	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 6/1 4/3 4/2 Indicators (ch sipedon stic n Sulfide d Layers (LRR F) ck (LRR FGH) dd Below Dark Surface Jark Surface lucky Mineral Mucky Peat or Peat (LRI eleyed Matrix	eeded to deatrix, CS=Co	l, aerial,	al photos, pred d hydrology ment the indidicated Sand Coolor (Note: The cool of the cool	evious insp were obs cator or cc Grains; Local Moist) 4/6 4/6 ot presen edox Matrix ucky Mineral ucky Mine	months and the served. months are served. months and the served. months are served. months and the served. months are ser	e absence of ir ore Lining, M=Matr es Type C C C	Location M M M II Present?	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (Prairie Redox	2: Soils¹ LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Gurface
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-4 4-12 4-12 12-18 NRCS Hydr Restrictive Laye	No primary iption (Description (Description) Hue 10YR Hue 10YR Hue 10YR Hue 10YR Hue 10YR A1- Histosol A2 - Histic Er A3 - Black Hi A4 - Hydroge A5 - Stratifier A9 - 1 cm Mt A11 - Deplett A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mt S4 - Sandy G r Type Soil consisi	ibe to the depth ne letion, RM=Reduced Mi Matrix Color (Moist) 2/1 6/1 4/3 4/2 Indicators (ch sipedon stic n Sulfide d Layers (LRR F) ck (LRR FGH) dd Below Dark Surface Jark Surface lucky Mineral Mucky Peat or Peat (LRI eleyed Matrix	eeded to datrix, CS=Co	l, aerial,	al photos, pred d hydrology ment the indidicated Sand Coolor (Note: The cool of the cool	evious insp were obs cator or cc Grains; Local Moist) 4/6 4/6 ot presen edox Matrix ucky Mineral ucky Mine	months and the served. months are served. months and the served. months are served. months and the served. months are ser	e absence of ir ore Lining, M=Matr es Type C C C	Location M M M II Present?	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (Prairie Redox	E Soils¹ LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Burface ion and wetland hydrology must be present,

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w24-k1
VEGETATIO	N (Species identified in all uppercase ar	e non-native	species.)		
	(Plot size: 30 ft. radius)	o non nauvo	оробіобі.		
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
4					Dominance rest Worksheet
1.	Populus tremuloides	60	Y	FAC	
2.	Quercus macrocarpa	5	N	FACU	Number of Dominant Species that are OBL, FACW, or FAC:3(A)
3.					
4.					Total Number of Dominant Species Across All Strata: 4 (B)
					Total Number of Borninant opecies Across All Strate.
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					1
					Total % Cover of: Multiply by:
10.					OBL spp. 0 x 1 = 0
	Total Cover =	65			FACW spp. 9 x 2 = 18
			_		FAC spp. 90 x 3 = 270
Conline/Chrub (Stratum (Diet size: 15 ft radius)				
	Stratum (Plot size: 15 ft. radius)			E40	
1.	Populus tremuloides	15	Y	FAC	UPL spp. 0 x 5 = 0
2.	Cornus racemosa	5	Υ	FAC	
3.	Rosa blanda	2	N	FACU	Total 156 (A) 516 (B)
4.	Salix discolor	2	N	FACW	
	Salix discului		IN	IACW	B
5.					Prevalence Index = B/A = 3.308
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
					1 , , , ,
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	24			Prevalence Index is ≤ 3.0 *
			_		Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Geum aleppicum	40	Υ	FACU	
2.	Zizia aurea	10	N	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Calamagrostis canadensis	5	N	FACW	present, unless disturbed or problematic.
					D-finitions of V-matation Others
4.	Galium boreale	5	N	FACU	Definitions of Vegetation Strata:
5.	Solidago canadensis	5	N	FACU	
6	Thalictrum dioicum	2	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
				_	
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
					Herb - All herbaceous (non-woody) plants, regardless of size.
12.					TIELD = 7 III HELDOCOGO (HOLL-WOODD) Plants, regardess of size.
13.					
14.					
15.				_	Woody Vines - All woody vines, regardless of height.
10.	T-1-1 C	07			
	Total Cover =	67	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	,				
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
¬r.	Tatal C	^			
	Total Cover =	0			
Remarks:					Herbaceous vegetation is dominated by yellow avens with approximately 30% of the ground
	covered by leaf litter. Vegetation passes the domina	ince test, ho	wever non-h	ydric soils a	and lack of hydrology indicate the area is not a wetland.
Additional F	Remarks:				