WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/28/14						
Applicant:		Enbridge								County:	Kittson						
Investigators	i:	EAB/RAJ			Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN						
Soil Unit:	I132A			NWI Classification:													
Landform:	Talf			Lc	cal Relief:	LL				Sample Point	u-159n49w26-a1						
Slope (%):	0 - 2%		Latitude: 48.5		Longitude:		433	Datum		1							
		nditions on the site						□Yes	☑ No	Section:							
Are Vegetation		or Hydrology		y disturbed?	ar: (irrio, ex		e normal circun			1							
						Aic	rioimai circuii ☑ Yes	□No	esent:	Township:	D' .						
Are Vegetation		☐ or Hydrology	Li lurally pr	obiematic?			⊡ 1es	ПИО		Range:	Dir:						
SUMMARY C																	
Hydrophytic '			No		_				ils Present?								
Wetland Hyd			No					Is This Sa	mpling Poir	nt Within A W	etland? No						
Remarks: The sample site is located in an unplanted, weedy strip of land between farm fields and a roadside ditch. The site may have been farmed in the past. Recent																	
heavy rains have affected the area.																	
HYDROLOG																	
-		icators (Check all	l that apply; N	linimum of or	ne primary	or two se	econdary requi	red):									
<u>Primary</u>				_		_			Secondary:								
	A1 - Surface				B11 - Salt					B6 - Surface S							
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface						
	A3 - Saturation B1 - Water M									☐ B10 - Drainage Patterns ☐ C3 - Oxidized Rhizospheres on Living Roots (tilled)							
l H	B2 - Sedimen						spheres on Living	Poote (not til		C8 - Crayfish I							
1 5	B3 - Drift Dep				C4 - Prese			100013 (HOL III			n Visible on Aerial Imagery						
1 5	B4 - Algal Ma				C7 - Thin N					D2 - Geomorp							
	B5 - Iron Dep				Other (Exp					D5 - FAC-Neu							
	B7 - Inundation	on Visible on Aerial Im	nagery			,				D7 - Frost-Hea	aved Hummocks (LRR F)						
	B9 - Water-St	tained Leaves															
Field Obser	vations:																
Surface Wat		Yes 🔲	Dent	h:	(in.)												
Water Table		Yes	Dept	n:	(in.)			Wetland H	Hydrology	Present?	N						
				h:													
Saturation Pi	resent?	Yes 🔟	Dept	n:	_ (In.)		Saturation Present? Yes Depth: (in.)										
Describe Rec	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																
					revious insp	ections),	if available:										
Remarks:					evious insp	ections),	if available:										
Remarks:					evious insp	ections),	if available:										
Remarks:	No indicator	rs of wetland hydro	ology were ob	oserved.	·			ndicators)									
Remarks: SOILS Profile Descri	No indicator	rs of wetland hydro	ology were objected to docu	oserved.	icator or co	onfirm the	e absence of ir										
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Remarks: SOILS Profile Descri	No indicator	rs of wetland hydro ibe to the depth ne etion, RM=Reduced Ma	ology were objected to docu	oserved.	icator or co	onfirm the	e absence of ir ore Lining, M=Matr		1								
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	ibe to the depth ne etion, RM=Reduced Ma	eeded to docu	iment the ind	icator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr es	ix)	Toutura		Domarko						
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu latrix, CS=Cover	iment the inded/Coated Sand	icator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr		Texture		Remarks						
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5	No indicator iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu latrix, CS=Cover	iment the inded/Coated Sand Color (icator or co Grains; Loca Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	С		Remarks						
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/1	eeded to docu latrix, CS=Cover	iment the inded/Coated Sand	icator or co Grains; Loca Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type	ix)	C C	The layer is a mix							
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5	No indicator iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu latrix, CS=Cover	iment the inded/Coated Sand Color (icator or co Grains; Local Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	С	The layer is a mix							
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-14	No indicator iption (Description, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/1	eeded to docu latrix, CS=Cover	ment the ind ed/Coated Sand Color (icator or co Grains; Local Moist)	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location M	C C	The layer is a mix							
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-14 14-18	No indicator ption (Descriptration, D=Depl Hue_10YR Hue_2.5Y	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/1 4/1	eeded to doculatrix, CS=Cover	color (Hue_2.5Y	icator or co Grains; Local Moist)	Mottle %	e absence of ir ore Lining, M=Matr es Type	Location M M	C C	The layer is a mix							
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-14 14-18 14-18	No indicator iption (Descriptration, D=Dept Hue 10YR Hue 2.5Y Hue 2.5Y Hue 10YR	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/1 4/1 2/1	eeded to docu leatrix, CS=Cover % 100 50 80	color (Hue_10YR Hue_10YR	Moist) R 2/1 7/1 R 4/4	Mottle Mottle	e absence of irrore Lining, M=Matr	Location M M	C C	The layer is a mix							
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-14 14-18 NRCS Hydr	No indicator iption (Description, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y Hue_10YR A1- Histosol	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/1 2/1 Indicators (ch	eeded to doct atrix, CS=Covern % 100 500 80 15 neck here if ir	Color (Hue_10YR Hue_10YR Hue_10YR S5 - Sandy F	Moist) R 2/1 7/1 R 4/4 not presen	Mottle Mottle	e absence of irrore Lining, M=Matr	Location M M M	C C C C	for Problemation	c Soils ¹						
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-14 14-18 14-18 NRCS Hydr	No indicato Iption (Descrintration, D=Depl Hue 10YR Hue 2.5Y Hue 2.5Y Hue 10YR A1- Histosol A2- Histic Ep A3- Black His A4- Hydroge A5- Stratified A1- Toeplete A12- Thick D S1- Sandy M S3- 5 cm Mu S4- Sandy G	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/1 4/1 2/1 Indicators (chairpedon stic n Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRI leyed Matrix	eeded to doculatrix, CS=Covernose % 100 50 80 15 15 15 15 15 15 15 1	ment the ind ed/Coated Sand Color (Hue_10YR Hue_2.5Y Hue_10YR Goldicators are (S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High P	Moist) Moist) 2/1 7/1 R 4/4 Part Alfa Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surfa Depressions lains Depres	Mottle % 50 4 1	e absence of ir ore Lining, M=Matrices Type C D C	Location M M M C C C C C C C C C C C C C C C C	Indicators of lunless disturbed	for Problemation for Pr	c Soils¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface						
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-14 14-18 14-18 NRCS Hydr	Hue 10YR Hue 2.5Y Hue 2.5Y Hue 10YR 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 M S3 - 5 cm Mu S4 - Sandy G	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/1 2/1 Indicators (chaipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface auk Surface ucky Mineral flucky Peat or Peat (LR leyed Matrix	eeded to doct atrix, CS=Covern %	ment the ind ed/Coated Sand Color (Hue 10YR Hue 2.5Y Hue 10YR Glicators are 1 S5 - Sandy F S6 - Strippe F F2 - Loamy C F3 - Depleter F6 - Redox E F7 - Depleter F8 - Redox E F16 - High P	Moist) R 2/1 7/1 R 4/4 not presen Redox I Matrix Mucky Minera Gleyed Matrix d Matrix Dark Surface d Dark Surface	Mottle % 50 4 1 tt):	e absence of irrore Lining, M=Matrices Type C D C C Hydric So	Location M M M M II	Indicators: A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High I F18 - Reduct TF12 - Very Other (Expla	for Problemation for Pr	c Soils¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface						
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-14 14-18 14-18 NRCS Hydr	Hue 10YR Hue 2.5Y Hue 2.5Y Hue 10YR 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 M S3 - 5 cm Mu S4 - Sandy G	ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/1 4/1 2/1 Indicators (chairpedon stic n Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRI leyed Matrix	eeded to doct atrix, CS=Covern %	ment the ind ed/Coated Sand Color (Hue 10YR Hue 2.5Y Hue 10YR Glicators are 1 S5 - Sandy F S6 - Strippe F F2 - Loamy C F3 - Depleter F6 - Redox E F7 - Depleter F8 - Redox E F16 - High P	Moist) R 2/1 7/1 R 4/4 not presen Redox I Matrix Mucky Minera Gleyed Matrix d Matrix Dark Surface d Dark Surface	Mottle % 50 4 1 tt):	e absence of irrore Lining, M=Matrices Type C D C C Hydric So	Location M M M M II	Indicators: A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High I F18 - Reduct TF12 - Very Other (Expla	for Problemation for Pr	c Soils¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface						

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-159n49w26-a1				
VEGETATION	N (Species identified in all uppercase are	non-native	species.)						
Tree Stratum ((Plot size: 30 ft. radius)		· · · · · · · · · · · · · · · · · · ·						
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.					· ,				
4.					Total Number of Dominant Species Across All Strata: 1 (B)				
5.					((=/				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)				
7.					(VD)				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 0 x 1 = 0				
	Total Cover =	0	_		FACW spp. 0 x 2 = 0				
				FAC spp. 0 x 3 = 0					
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 36 X 4 = 144				
1.					UPL spp70 X 5 =350				
2.									
3.					Total 106 (A) 494 (B)				
4.									
5.					Prevalence Index = B/A = 4.660				
6.									
7.									
					Hydrophytic Vegetation Indicators				
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Bromus inermis	70	Υ	UPL					
2.	Trifolium pratense	20	N	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Melilotus officinalis	10	N	FACU	present, unless disturbed or problematic.				
4.	Symphyotrichum ericoides	5	N	FACU	Definitions of Vegetation Strata:				
5.	Taraxacum officinale	1	N	FACU					
6		<u>'</u>	- ''	17100	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.					height (DBH), regardless of height.				
8.									
					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
9.					Sapling/Snrup - Woody plants less than 3 m. DBH, Tegaluless of height.				
10.									
11.									
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.		-							
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	106							
	_		_						
Woody Vine Str	ratum (Plot size: 30 ft. radius)								
1.	(. 00 0120. 00 10 100100)								
2.									
				_	Hardwards Variation Bureau 40				
3.				_	Hydrophytic Vegetation Present? N				
5.									
4.				_					
	Total Cover =	0							
Remarks:	The vegetation is dominated by smooth brom	ie, with oth	ner commo	on upland	weeds present in lesser abundance.				
Additional Remarks:									
Additional Name Name Name Name Name Name Name Name									