## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R								Date:	06/26/14
Applicant: Enbridge								County:	Kittson
Investigators: BEH/BCS			Subregion	n (MI RA	or LRR).	MLRA 56		State:	MN
Soil Unit: I248A	J.		Cubi ogioi		Classification:			Oldio.	
			al Daliafi		Ciassification			0 I . D	400=50-40 =0
Landform: Shoulder	10.00		cal Relief:					Sample Point:	u-160n50w10-a2
	_atitude: 48.698		Longitude:			Datum:			
Are climatic/hydrologic conditions on the site	typical for this	s time of yea	Ir? (If no, exp				□ No	Section:	
Are Vegetation ♀ Soil ♀ or Hydrology	☑gnificantly	disturbed?		Are	normal circun	istances pre	esent?	Township:	
Are Vegetation ☐ Soil ☐ or Hydrology					Yes	□No		Range:	Dir:
SUMMARY OF FINDINGS								rtarigo.	5
Hydrophytic Vegetation Present?	No					Hydric Soil			
Wetland Hydrology Present?	No							nt Within A We	etland? <b>No</b>
Remarks: The upland sample point is loca	ated in a whe	at field upslo	pe from a	n excava	ited agricultura	Il drainage o	ditch.		
		•	-		_	_			
HYDROLOGY									
HYDROLOGY									
Wetland Hydrology Indicators (Check all t	hat apply: Mir	nimum of one	e primary	or two se	condary requi	red):			
Primary:			· [,			/-	Secondary:		
A1 - Surface Water			B11 - Salt (	Crust				B6 - Surface S	oil Cracks
☐ A2 - High Water Table			B13 - Aqua						Vegetated Concave Surface
☐ A3 - Saturation			C1 - Hydro		e Odor			B10 - Drainage	
☐ B1 - Water Marks			C2 - Dry Se						Rhizospheres on Living Roots (tilled)
☐ B2 - Sediment Deposits					pheres on Living	Roots (not till		C8 - Crayfish E	
☐ B3 - Drift Deposits			C4 - Prese						Nisible on Aerial Imagery
☐ B4 - Algal Mat or Crust			C7 - Thin M					D2 - Geomorp	
☐ B5 - Iron Deposits			Other (Expl					D5 - FAC-Neut	
B7 - Inundation Visible on Aerial Ima	gerv	_		,					aved Hummocks (LRR F)
☐ B9 - Water-Stained Leaves	3)						_		(=::::,
F: 1101 #									
Field Observations:									
Surface Water Present? Yes	Depth:		(in.)			Wetland H	lydrology	Drocont?	N
Water Table Present? Yes □	Depth:		(in.)			wetianu n	iyurology	rieseilt	N
Saturation Present? Yes □	Depth:		(in.)						_
	Ворин.		()						
Describe Recorded Data (stream gauge, monitor									
Describe Necorded Data (Stream gauge, Month	oring well, aeri	al photos, pre	evious insp	ections), i	if available:				
				ections), i	if available:				
Remarks: No primary or secondary hydro				ections), i	if available:				
Remarks: No primary or secondary hydro				ections), i	if available:				
Remarks: No primary or secondary hydro SOILS	logical indicat	tors were ob	served.	·		edicators \			
Remarks: No primary or secondary hydro  SOILS  Profile Description (Describe to the depth nee	logical indicated	tors were ob	served.	onfirm the	e absence of ir				
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Remarks: No primary or secondary hydro  SOILS  Profile Description (Describe to the depth nee (Type: C=Concentration, D=Depletion, RM=Reduced Mat	logical indicated	tors were ob	served.	onfirm the	e absence of ir ore Lining, M=Mate				
Remarks: No primary or secondary hydro  SOILS  Profile Description (Describe to the depth nee	logical indicated to documents, CS=Covered	tors were ob	served.	onfirm the	e absence of ir ore Lining, M=Mate				
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Remarks: No primary or secondary hydro  SOILS Profile Description (Describe to the depth nee (Type: C=Concentration, D=Depletion, RM=Reduced Matrix Depth (In.)  Color (Moist)	logical indicateded to documerix, CS=Covered	nent the indic	served. cator or co	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	Texture		Remarks
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Remarks: No primary or secondary hydro  SOILS Profile Description (Describe to the depth nee (Type: C=Concentration, D=Depletion, RM=Reduced Mat  Matrix Depth (In.) Color (Moist)  0-15 Hue_10YR 2/1	eded to documrix, CS=Covered  % 97	nent the indic	served. cator or co	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	C C		Remarks
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Remarks: No primary or secondary hydro  SOILS  Profile Description (Describe to the depth nee (Type: C=Concentration, D=Depletion, RM=Reduced Material Matrix  Depth (In.) Color (Moist)  0-15 Hue_10YR 2/1  15-21 Hue_10YR 2/1  NRCS Hydric Soil Field Indicators (chean chean chea	ded to documrix, CS=Covered  % 97 100 cck here if ind	color (NHue_7.5YRHue_5YRHue_5YRHue_5YRHue_5T.5UppletedF6 - Redox Daff	Moist)  4/6  4/6  4/6  oot present  edox Matrix lucky Mineral leyed Matrix Matrix arark Surface arark Surface pressions	monfirm the tion: PL=Po  Mottle  % 2 1 1 tt):	e absence of ir ore Lining, M=Matr es Type C C	Location M M	Indicators (A) A9 - 1 cm (A) A9 - 1 cm (A) A16 - Cost (B) S7 - Dark (S) F18 - Red (B) F18 - Red (B) TF2 - Red (B) TF12 - Very Other (Explain	duck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic sed Vertic Parent Material Shallow Dark S ain in Remarks)	E Soils <sup>1</sup> RR F, G, H)  ONS (LRR H, outlisde MLRA 72, 73)  Gurface
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Remarks: No primary or secondary hydro  SOILS  Profile Description (Describe to the depth nee (Type: C=Concentration, D=Depletion, RM=Reduced Matter    Matrix  Depth (In.) Color (Moist)  0-15 Hue 10YR 2/1  15-21 Hue 10YR 2/1  NRCS Hydric Soil Field Indicators (che    A1- Histosol   A2- Histic Epipedon   A3- Black Histic   A4- Hydrogen Sulfide   A5- Stratified Layers (LRR F)   A9-1 cm Muck (LRR FGH)   A11- Depleted Below Dark Surface   A12- Thick Dark Surface   S1- Sandy Mucky Mineral   S2- 2.5 cm Mucky Peat or Peat (LRR S4- Sandy Gleyed Matrix  Restrictive Layer Type:	ded to documrix, CS=Covered  % 97 100 ck here if ind	color (Name of the indice of t	served.  Cator or cograins; Locat  Moist)  4/6  4/6  4/6  ot present  edox  Matrix  iucky Minera  leyed Matrix  Matrix  ark Surface  Dark Surface  pressions  ains Depres	monfirm the months of the mont	e absence of irre Lining, M=Matrices  Type C C C  FARA 72, 73 of LRF	Location M M II Present?	Indicators 1 A9 - 1 cm M A16 - Cost F F F F F F F F F F F F F F F F F F F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Parent Material Shallow Dark S ain in Remarks) Inversely to the company of	E Soils¹  RR F, G, H)  DIS (LRR H, outlisde MLRA 72, 73)  Surface  ion and wetland hydrology must be present,
Remarks: No primary or secondary hydro  SOILS  Profile Description (Describe to the depth nee (Type: C=Concentration, D=Depletion, RM=Reduced Mat  Matrix  Depth (In.) Color (Moist)  0-15 Hue_10YR 2/1  15-21 Hue_10YR 2/1  NRCS Hydric Soil Field Indicators (che A1- Histosol A2- Histic Epipedon A3 - Black Histic A4 - Hydrogen Sulfide A5 - Stratified Layers (LRR F) A9 - 1 cm Muck (LRR FGH)  A11 - Depleted Below Dark Surface A12 - Thick Dark Surface A12 - Thick Dark Surface S1 - Sandy Mucky Mineral S2 - 2.5 cm Mucky Peat or Peat (LRR S3 - 5 cm Mucky Peat or Peat (LRR S4 - Sandy Gleyed Matrix	ded to documrix, CS=Covered  % 97 100 ck here if ind	color (Name of the indice of t	served.  Cator or cograins; Locat  Moist)  4/6  4/6  4/6  ot present  edox  Matrix  iucky Minera  leyed Matrix  Matrix  ark Surface  Dark Surface  pressions  ains Depres	monfirm the months of the mont	e absence of irre Lining, M=Matrices  Type C C C  FARA 72, 73 of LRF	Location M M II Present?	Indicators 1 A9 - 1 cm M A16 - Cost F F F F F F F F F F F F F F F F F F F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Parent Material Shallow Dark S ain in Remarks) Inversely to the company of	E Soils¹  RR F, G, H)  DIS (LRR H, outlisde MLRA 72, 73)  Surface  ion and wetland hydrology must be present,

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-160n50w10-a2
VEGETATIO		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:(A)
3.					
4.					Total Number of Dominant Species Across All Strata:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					
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. 0 x 4 = 0
1.					UPL spp. 65 x 5 = 325
2.					
3.					Total 65 (A) 325 (B)
4.					, , , , , , , , , , , , , , , , , , ,
5.					Prevalence Index = B/A = 5.000
6.					T TOVARIOTIC TITUCK - DIFT - 3.000
7.					
8.					Hudrouh, die Venetation Indicatore
					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) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Triticum aestivum	65	Υ	NI	
2.					* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6					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.					
12.				_	Herb - All herbaceous (non-woody) plants, regardless of size.
13.					1
14.					1
15.					Woody Vines - All woody vines, regardless of height.
- · · · ·	Total Cover =	65			
	Total Cover -	00	_		
Woody Vino St	ratum (Plot size: 30 ft. radius)				
1.	ratum (1 101 SIZE. 30 II. Taulūs)				
2.				_	
3.					Hydrophytic Vegetation Brosent?
					Hydrophytic Vegetation Present? N
5.				_	
4.	T.1.6			_	
	Total Cover =	0			
Remarks:	The sample point is located in a planted whe	at field. Th	e lack of c	ther vege	etation suggests that herbicide has been applied recently.
Additional R	Remarks:				
1					
1					