WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators Soil Unit:		L3R Enbridge NTT/BEH	_		Subregio	•	or LRR): Classification	MLRA 56		Date:10/08/14County:PenningtonState:MN	
Landform:	Rise			_ Lo	cal Relief:		I Classification.			Sample Point: u-152n43w23-a1	
Slope (%):	0 - 2%		: 47.97		Longitude:			Datum:			
		nditions on the site typica			tr? (If no, exp	1				Section:	
Are Vegetation	•	□, or Hydrology □sign □, or Hydrology □atur					e normal circun ☑ Yes	□ No	esent?	Township: Range: Dir:	
SUMMARY C			any pro	biomatio:			1 105				
Hydrophytic '	Vegetation Pr	resent?	No					Hydric Soil	ls Present?	No	
	rology Prese		No					Is This Sar	mpling Poin	t Within A Wetland? No	
Remarks:	The upland	point is located in a cut o	at field	and dominat	ed by gre	at plainta	ain.				
HYDROLOG	V										
Wetland Hy Primary	A1 - Surface V A2 - High Wat A3 - Saturation B1 - Water Ma B2 - Sediment B3 - Drift Depo B4 - Algal Mat B5 - Iron Depo B7 - Inundatio B9 - Water-St	Vater er Table n arks Deposits osits or Crust osits n Visible on Aerial Imagery		of one primary or two secondary required): B11 - Salt Crust B13 - Aquatic Fauna C1 - Hydrogen Sulfide Odor C2 - Dry Season Water Table C3 - Oxidized Rhizospheres on Living Roots (not till C4 - Presence of Reduced Iron C7 - Thin Muck Surface Other (Explain)					 B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F) 		
Field Observ Surface Wate Water Table Saturation Pr	er Present? Present? resent?	Yes Yes Yes Treem gouge monitoring w	Depth Depth Depth	:	(in.) (in.) (in.)	(actiona)	if ovoilable:	Wetland H	lydrology l	Present? N	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No wetland hydrology indicators present.											
	SOILS Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.) (Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)										
		etion, Rivi=Reduced Matrix, CS	=Covere	d/Coated Sand (
		ation, RM=Reduced Matrix, CS	=Covere	d/Coated Sand (-	
		Matrix			Grains; Loca	tion: PL=P Mottle	ore Lining, M=Matr	ix)			
Depth (In.)		Matrix Color (Moist)	%	Color (I	Grains; Loca	tion: PL=P	ore Lining, M=Matr		Texture	Remarks	
0-12	Hue_10YR	Matrix Color (Moist) 2/1	% 100	Color (I	Grains; Loca	tion: PL=P Mottle	ore Lining, M=Matr	ix)	SCL	Remarks	
0-12 12-16	Hue_10YR	Matrix Color (Moist) 2/1 4/2	% 100 50	Color (I	Grains; Loca	tion: PL=P Mottle	ore Lining, M=Matr	ix)	SCL SCL	Remarks	
0-12 12-16 12-16	Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 4/2 2/1	% 100 50 50	Color (I	Grains; Loca Moist)	tion: PL=P Mottle %	ore Lining, M=Matr es Type	Location	SCL	Remarks	
0-12 12-16	Hue_10YR	Matrix Color (Moist) 2/1 4/2	% 100 50	Color (I	Grains; Loca Moist)	tion: PL=P Mottle	ore Lining, M=Matr	ix)	SCL SCL	Remarks	
0-12 12-16 12-16 16-23	Hue_10YR Hue_10YR Hue_2.5Y	Matrix Color (Moist) 2/1 4/2 2/1 3/2	% 100 50 50 95	Color (I Hue_10YR	Grains; Loca Moist) <u>6/8</u>	tion: PL=P Mottle %	ore Lining, M=Matr es Type C	Location	SCL SCL	Remarks	
0-12 12-16 12-16 16-23	Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm Muc S3 - 5 cm Muc S4 - Sandy Gl	Matrix Color (Moist) 2/1 4/2 2/1 3/2 Indicators (check he pedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Peat or Peat (LRR G, H cky Peat or Peat (LRR F)	% 100 50 95 	Color (I Hue_10YR Hue_10YR dicators are n S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Loca Moist) 6/8 6/8 ot presen edox Matrix lucky Minera ileyed Matri Matrix ark Surface Dark Surface pressions	tion: PL=P Mottle % 5 t):	ore Lining, M=Matres	ix)	SCL SCL C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	or Problematic Soils ¹ luck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)	
0-12 12-16 12-16 16-23 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm Muc S3 - 5 cm Muc S4 - Sandy Gl r Type:	Matrix Color (Moist) 2/1 4/2 2/1 3/2 Indicators (check he pedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Peat or Peat (LRR G, H cky Peat or Peat (LRR F)	% 100 50 95 	Color (I Hue_10YR Hue_10YR dicators are n S5 - Sandy R S6 - Stripped F1 - Loamy W F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla	Grains; Loca Moist) 6/8 6/8 ot presen edox Matrix lucky Minera ileyed Matri Matrix ark Surface Dark Surface pressions	tion: PL=P Mottle % 5 t):	ore Lining, M=Matres	Location M	SCL SCL C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	Or Problematic Soils ¹ Juck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material Shallow Dark Surface ain in Remarks)	

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Project/Site:	L3R				Sample Point: u-152n43w23-a1			
VEGETATIO	N (Species identified in all uppercase a	re non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 2 (B)			
5.	_/							
6.					Bereast of Demission Species That Are ORL EACIAL at EAC: 50.0% (Λ/P)			
	<u></u>				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)			
7.	J							
8.					Prevalence Index Worksheet			
9.					Total % Cover of: <u>Multiply by:</u>			
10.					OBL spp. 0 x 1 = 0			
	Total Cover =	0			FACW spp. 0 $x 2 = 0$			
					OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 20 x 3 = 60 FACU spp. 5 x 4 = 20			
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 x 4 = 20			
<u>1.</u>					$UPL \text{ spp.} 0 \qquad \text{x } 5 = 0$			
2.								
					Total 25 (A) 90 (D)			
3.					Total 25 (A) 80 (B)			
4.								
5.					Prevalence Index = $B/A = 3.200$			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					Dominance Test is > 50%			
10.	 Total Cover =	0			$\frac{1}{2} = \frac{1}{2} = \frac{1}$			
					Morphological Adaptations (Explain) *			
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Plantago major	20	Y	FAC				
2.	Ambrosia artemisiifolia	5	Y	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.					present, unless disturbed or problematic.			
4.					Definitions of Vegetation Strata:			
5.								
6					Tree - Weather lands 2 in (7 Care) or more in diameter of broast			
					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
7.					height (DDH), 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.	· · · · · · · · · · · · · · · · · · ·							
14.	p							
					Woody Vines - All woody vines, regardless of height.			
15.		07			WOULY VILLES - An WOOLY VILLES, regardless of fieldrift.			
	Total Cover =	25						
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? N			
5.								
4.	Tatalo							
	Total Cover =			<u> </u>				
Remarks:	The vegetation is dominated by great plainta	ain and bier	nnial worm	wood.				
Additional Remarks:								