WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R			Date: 10/02/14				
Applicant: Enbridge			County: Red Lake				
Investigators: NTT/BEH	Subregion (MLRA or LRR):	MLRA 56	State: <u>MN</u>				
Soil Unit: 150A	NWI Classification	:	_				
Landform: Rise	Local Relief: VV		Sample Point: u-151n42w10-a1				
Slope (%): 3 - 7% Latitude: 47.916043		Datum:	4				
Are climatic/hydrologic conditions on the site typical for this tin		Yes □ No	Section:				
Are Vegetation \Box Soil \Box or Hydrology \Box gnificantly dist		nstances present?	Township:				
Are Vegetation D Soil or Hydrology diturally problem	natic? I Yes	□No	Range: Dir:				
SUMMARY OF FINDINGS			• ···				
Hydrophytic Vegetation Present? No		Hydric Soils Present					
Wetland Hydrology Present? No			int Within A Wetland? No				
Remarks: The upland point is located in an open meadow	area. The dominant plants are smooth br	ome and Kentucky bit	ie grass.				
HYDROLOGY							
Wetland Hydrology Indicators (Check all that apply; Minimu	um of one primary or two secondary requi	ired):					
Primary:		Secondar					
 A1 - Surface Water A2 - High Water Table 	B11 - Salt Crust		B6 - Surface Soil Cracks				
 A2 - High Water Table A3 - Saturation 	 B13 - Aquatic Fauna C1 - Hydrogen Sulfide Odor 		B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns				
B1 - Water Marks	C2 - Dry Season Water Table	E					
B2 - Sediment Deposits	C3 - Oxidized Rhizospheres on Living	Roots (not tille	C8 - Crayfish Burrows				
B3 - Drift Deposits	C4 - Presence of Reduced Iron		C9 - Saturation Visible on Aerial Imagery				
 B4 - Algal Mat or Crust B5 - Iron Deposits 	 C7 - Thin Muck Surface Other (Explain) 		D2 - Geomorphic Position D5 - FAC-Neutral Test				
 B3 - Infor Deposits B7 - Inundation Visible on Aerial Imagery 			D5 - Frost-Heaved Hummocks (LRR F)				
B9 - Water-Stained Leaves		_	,				
Field Observations:							
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	(in.)		Present? N				
		Wetland Hydrology					
Surface Water Present? Yes Depth:	(in.)	wetland Hydrology					
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Contract in all approaches are intervaled equations: Definition of the all approaches are intervaled equations: 1 2 0	Project/Site:	L3R				Sample Point: u-151n42w10-a1		
The Stratum (Protes: 30 fr. Galos) **Cover Deminants Instance Deminants Stratum 1								
Scolard Jama S. Caref Desities Image: Second Jama Desities Desities Image: Second Jama Desities Desities <thdesities< th=""></thdesities<>			e non-native s	species.)				
1	Thee Stratum (% Cover	Dominant	Ind Status	Dominance Test Worksheet		
3.	1.		<u></u>					
4.	2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)		
6.	3.							
6.	4.					Total Number of Dominant Species Across All Strata: 2 (B)		
7.	5.							
8.						Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)		
9. Total Cover Total Score of 0 Number of Score of Score of 0 Number of Score of 0 Number of Score of 0 Number of Score of 0 Number of Score of Score of 0 Number of Score of Sc								
10. Odl: spp. 0 X 1 = 0 Signifigibities firstum (Plot size: 15 ft radius) PACW spp. 0 X 3 = 0 2 PACW spp. 0 X 3 = 0 0 3 PACW spp. 0 X 3 = 0 0 3 PACW spp. 0 X 3 = 0 0 3 PACW spp. 0 X 3 = 0 0 3 PACW spp. 0 X 5 = 200 4 Providence index = B/A = 4500 (B) 7 Providence index = B/A = 4500 (B) 7 Providence index is 5.0 * Providence index is 5.0 * (B) 10. Providence index is 5.0 * Providence index is 5.0 * (B) 1 Providence index is 5.0 * Providence index is 5.0 * (B) 1 Providence index is 5.0 * Providence index is 5.0 * (B) 2 Providence index is 5.0 * Providence index is 5.0 * (B) 3. Orsum servere 5 Providence index is 5.0 * (B) 4. Providence index is 5.0 * Providence index is 5.0 * (B)						4		
Total Cover O FACC spo. 2 0 September bittehum (Pot size: 15 fl. radius)								
Signing/Structure FAC spp 0 X 3 = 0 1	10.					· · · <u></u>		
Sepiror_Shub_Shub_Model and the set is 1. B. radius) FACU spp. 90 x 4 = 200 2.		Total Cover =	0	-				
1.								
2		Stratum (Plot size: 15 ft. radius)						
3.1		<u> </u>				UPL spp. 50 X 5 = 250		
4.						Total 100 (A) 450 (D)		
5.		1						
6.		1				Prevelence Index = R/A = -4.500		
7.		<u> </u>						
8.								
9.		<u> </u>				Hydrophytic Vegetation Indicators:		
10. Total Cover =		<u> </u>						
Total Cover =		<u></u>						
Herb Stratum (Plot size: 30 ft. radius) Stratus Morphological Adaptations (Explain)* 1. Bornus internis 50 Y UPL 2. Poa prateesis 45 Y FACU 3. Circum an enerse 5 N FACU 3. Circum an enerse 5 N FACU 5. Circum an enerse 5 N FACU 6 Circum an enerse 5 N FACU 7. Circum an enerse Circum an enerse Circum an enerse Circum an enerse 8. Circum an enerse Circum an enerse Circum an enerse Circum an enerse 10. Circum an enerse Circum an enerse Circum an enerse Septing/Shrub - Woody plants less than 3 in. DBH, regardless of height. 11. Circum an enerse Circum an enerse Circum an enerse Circum an enerse 12. Circum an enerse Circum an enerse Circum an enerse Circum an enerse 14. Circum an enerse Circum an enerse Circum an enerse Circum an enerse </td <td></td> <td>Total Cover =</td> <td>0</td> <td></td> <td></td> <td></td>		Total Cover =	0					
Herb Stratum (Plot size: 5 ft. radius)				-				
1. Browne inemits 50 Y UPL 2. Poe patensis 45 Y FACU * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 3. Ciristum average 5 N FACU * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 4. Ciristum average 5 N FACU Definitions of Vegetation Strata: 5. Ciristum average Ciristum average Ciristum average Definitions of Vegetation Strata: 6 Ciristum average Ciristum average Ciristum average Definitions of Vegetation Strata: 7. Ciristum average Ciristum average Ciristum average Definitions of Vegetation Strata: 8. Ciristum average Ciristum average Ciristum average Definitions of Vegetation Strata: 10. Ciristum average Ciristum average Ciristum average Definitions of Vegetation Strata: 11. Ciristum average Ciristum average Ciristum average Woody Vines - All woody vines, regardless of height. 11. Ciristum average Ciristum average Ciristum average Ciristum average	Herb Stratum (I	Plot size: 5 ft. radius)						
3. Cirsium avenue 5 N FACU present, unless disturbed or problematic. 4.			50	Y	UPL			
3. Income and the set of the se	2.	Poa pratensis	45	Y	FACU			
5. 6 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 11. 12. 13. 14. 15. 16. 17. 17. 18. 19. 19. 10. 11. 11. 12. 13. 14. 15. 16. 17. 18. 19. 10. 10. 11. 11. 12. 13. 14. 15. 16. 17. 18. 19. 10. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 10. 10. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 19. 10. 10. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 1	3.	Cirsium arvense	5	Ν	FACU	present, unless disturbed or problematic.		
6 7. 8. 9. 10. 11. 12. 13. 14. 15. Total Cover =	4.					Definitions of Vegetation Strata:		
7	5.							
No 9. 10. 11. 12. 13. 14. 15. Total Cover =						Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast		
9.						height (DBH), regardless of height.		
10.						•		
11						Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.		
12.					<u>.</u>			
13. 14. 15. Total Cover =100 Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 5. 5. 5. 1. Total Cover =0 Hydrophytic Vegetation Present?N					<u>.</u>	U		
14. 15. Total Cover =100 Woody Vines - All woody vines, regardless of height. Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 3. 5. 4. Total Cover = Hydrophytic Vegetation Present?						Herb - An herbaceda (her woody) plants, regulates of size.		
15. Woody Vines - All woody vines, regardless of height. Woody Vine Stratum (Plot size: 30 ft. radius)						4		
Total Cover =					-	Woody Vines - All woody vines, regardless of height.		
Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 3. 5. 4. Total Cover = 0 Remarks: Dominant plants within the upland area are smooth brome and Kentucky blue grass.	10.	Total Cover =	100					
1			100	-				
1	Woody Vine Str	ratum (Plot size: 30 ft. radius)						
3. Image: Marcon and State		í í						
5.	2.							
5.	3.					Hydrophytic Vegetation Present? N		
Total Cover = 0 Remarks: Dominant plants within the upland area are smooth brome and Kentucky blue grass.	5.							
Remarks: Dominant plants within the upland area are smooth brome and Kentucky blue grass.	4.							
Additional Remarks:	Remarks:	Remarks: Dominant plants within the upland area are smooth brome and Kentucky blue grass.						
Additional Remarks:								
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	Auditional R	Gillai N3.						
	L							