WETLAND DETERMINATION DATA FORM
Great Plains Region

Project/Site:	L3R		Date: 10/04/14
Applicant/ Investigators:	Enbridge NTT/BEH	Subregion (MLRA or LRR): MLRA 56	County: Red Lake State: MN
Soil Unit:	I59A	NWI Classification:	
Landform:	Talf	Local Relief: CV	Sample Point: **u-151n42w10-c1**
Slope (%):	3 - 7%	Latitude: 47.905924 Longitude: -96.012668 Datum:	
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)		Yes No	Section:
Are Vegetation , Soil , or Hydrology significantly disturbed?		Are normal circumstances present?	Township:
Are Vegetation , Soil , or Hydrology naturally problematic?		Yes No	Range: Dir:

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? No — Hydric Soils Present? No

Wetland Hydrology Present? No — Is This Sampling Point Within A Wetland? **No**

Remarks: The upland point is located in an open meadow area. The dominant plants are smooth brome and Kentucky blue grass.

HYDROLOGY

Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):

Primary:
- A1 - Surface Water
- A2 - High Water Table
- A3 - Saturation
- B1 - Water Marks
- B2 - Sediment Deposits
- B3 - Drift Deposits
- B4 - Algal Mat or Crust ☑
- B5 - Iron Deposits
- B7 - Inundation Visible on Aerial Imagery
- B9 - Water-Stained Leaves
- 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)

Secondary:
- 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 Observations:

Surface Water Present?	Yes	Depth:	(in.)
Water Table Present?	Yes	Depth:	(in.)
Saturation Present?	Yes	Depth:	(in.)

Wetland Hydrology 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)

	Matrix		Mottles					
Depth	or (Moist)	%	Color (Moist)	%	Type	Location	Texture	Remarks
0-	2/1	100					CL	
12-	5/1	100					VFS	
16-	4/2	100					C	gravel present

NRCS Hydric Soil Indicators (check here if indicators are not present):

- A4 - Hydrogen Sulfide
- ers (LRR F)
- RR FGH)
- low Dark Surface
- Surface
- Mineral
- Peat or Peat (LRR G, H)
- eat or Peat (LRR F)
- Matrix
- S5 - Sandy Redox
- S6 - Stripped Matrix
- F1 - Loamy Mucky Mineral
- F2 - Loamy Gleyed Matrix
- F3 - Depleted Matrix
- F6 - Redox Dark Surface
- F7 - Depleted Dark Surface
- F8 - Redox Depressions
- F16 - High Plains Depressions (MLRA 72, 73 of LRR H)

Indicators for Problematic Soils[1]
- A9 - 1 cm Muck (LRR I, J)
- A16 - Coast Prairie Redox (LRR F, G, H)
- S7 - Dark Surface (LRR G)
- F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)
- F18 - Reduced Vertic
- TF2 - Red Parent Material
- TF12 - Very Shallow Dark Surface
- Other (Explain in Remarks)

[1]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer Type: Depth: **Hydric Soil Present?** N

Remarks: Solid layer of dark black clay loam over a layer of very fine sand and a layer of clay with mixed gravel.

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Project/Site: L3R | Sample Point: u-151n42w10-c1

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 30 ft. radius)

Species Name	% Cover	Dominant	Ind.Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
Total Cover =	0		

Sapling/Shrub Stratum (Plot size: 15 ft. radius)

1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
Total Cover =	0		

Herb Stratum (Plot size: 5 ft. radius)

1.	70	Y	UPL
2.	20	Y	FACU
3.	10	N	FACU
4.			
5.			
6			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
Total Cover =	100		

Woody Vine Stratum (Plot size: 30 ft. radius)

1.			
2.			
3.			
5.			
4.			
Total Cover =	0		

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: ***0.0%*** (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL spp.	0	x 1 =	0
FACW spp.	0	x 2 =	0
FAC spp.	0	x 3 =	0
FACU spp.	30	x 4 =	120
UPL spp.	70	x 5 =	350
Total	100 (A)		470 (B)

Prevalence Index = B/A = ***4.700***

Hydrophytic Vegetation Indicators:

_____ Rapid Test for Hydrophytic Vegetation
_____ Dominance Test is > 50%
_____ Prevalence Index is ≤ 3.0 *
_____ Morphological Adaptations (Explain) *
_____ Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.

Herb - All herbaceous (non-woody) plants, regardless of size.

Woody Vines - All woody vines, regardless of height.

Hydrophytic Vegetation Present? N

Remarks: Dominant plants within the upland area are smooth brome and Kentucky blue grass.

Additional Remarks: