

WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: L3R City/County: Polk Sampling Date: 2015-06-03
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: u-150n39w29-c1
 Investigator(s): LEB/BCS Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): depression Local Relief (concave, convex, none): CL Slope (%): 0-2%
 Subregion (LRR or MLRA): LRR F Latitude: 47.7765510231... Longitude: -95.67589919...
 Datum: Minnesota State Plane North, NAD 83 (2011) U.S. feet

Soil Map Unit Name: I40B NWI Classification: PEMA
 Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): Yes

Are Vegetation Yes, Soil Yes, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	<u>No</u>	Is the Sampled Area within a Wetland?	
Hydric Soil Present?	<u>No</u>		<u>No</u>
Wetland Hydrology Present?	<u>No</u>		If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) The point is located in a swale within a cropped field. The swale is mapped as an NWI, however no wetland indicators are present.			

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot Size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:																				
1. _____	_____	_____	_____	Number of Dominant Species _____																				
2. _____	_____	_____	_____	That Are OBL, FACW, or FAC: <u>0</u> (A)																				
3. _____	_____	_____	_____	Total Number of Dominant Species _____																				
4. _____	_____	_____	_____	Species Across All Strata: <u>1</u> (B)																				
<u>0</u> = Total Cover				Percent of Dominant Species _____																				
Sapling/Shrub Stratum (Plot Size: _____)				That Are OBL, FACW, or FAC: <u>0</u> (A/B)																				
1. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: <table style="display:inline-table; border:none;"> <tr><td style="border:none;">OBL species</td><td style="border:none;">0.00</td><td style="border:none;">x 1</td><td style="border:none;"><u>0</u></td></tr> <tr><td style="border:none;">FACW species</td><td style="border:none;">0.00</td><td style="border:none;">x 2</td><td style="border:none;"><u>0</u></td></tr> <tr><td style="border:none;">FACU species</td><td style="border:none;">10.00</td><td style="border:none;">x 3</td><td style="border:none;"><u>20</u></td></tr> <tr><td style="border:none;">UPL species</td><td style="border:none;">0</td><td style="border:none;">x 4</td><td style="border:none;"><u>0</u></td></tr> <tr><td style="border:none;">Column Totals</td><td style="border:none;"><u>15</u> (A)</td><td style="border:none;"></td><td style="border:none;"><u>50</u> (B)</td></tr> </table> Prevalence Index = B/A = <u>3.3333</u>	OBL species	0.00	x 1	<u>0</u>	FACW species	0.00	x 2	<u>0</u>	FACU species	10.00	x 3	<u>20</u>	UPL species	0	x 4	<u>0</u>	Column Totals	<u>15</u> (A)		<u>50</u> (B)
OBL species	0.00	x 1	<u>0</u>																					
FACW species	0.00	x 2	<u>0</u>																					
FACU species	10.00	x 3	<u>20</u>																					
UPL species	0	x 4	<u>0</u>																					
Column Totals	<u>15</u> (A)		<u>50</u> (B)																					
2. _____	_____	_____	_____																					
3. _____	_____	_____	_____																					
4. _____	_____	_____	_____																					
5. _____	_____	_____	_____																					
<u>0</u> = Total Cover				Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation <u>no</u> 2 - Dominance Test is > 50% <u>no</u> 3 - Prevalence Index is ≤ 3.0 ¹ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) _____ ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																				
Herb Stratum (Plot Size: _____)																								
1. <u>Hordeum vulgare</u>	<u>75.00</u>	<u>Yes</u>	_____																					
2. <u>Calystegia sepium</u>	<u>10.00</u>	<u>No</u>	<u>FAC</u>																					
3. <u>Silene vulgaris</u>	<u>5.00</u>	<u>No</u>	_____																					
4. <u>Ambrosia artemisiifolia</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>																					
5. _____	_____	_____	_____																					
6. _____	_____	_____	_____																					
7. _____	_____	_____	_____																					
8. _____	_____	_____	_____																					
9. _____	_____	_____	_____																					
10. _____	_____	_____	_____																					
<u>95</u> = Total Cover																								
Woody Vine Stratum (Plot Size: _____)																								
1. _____	_____	_____	_____																					
2. _____	_____	_____	_____																					
<u>0</u> = Total Cover																								
% Bare Ground in Herb Stratum <u>5</u>																								
Hydrophytic Vegetation Present? _____																								
Remarks: The vegetation consists of planted barley with some scattered agricultural weeds throughout.																								

SOIL

Sampling Point: u-150n39...

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features					Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			
0-18	10YR 2 1	100						loamy fine s...	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 1cm Muck (A9) (LRR F, G, H) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 2.5cm Mucky Peat or Peat (S2)(LRR G, H) <input type="checkbox"/> 5cm Mucky Peat or Peat (S3) (LRR F)		<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> High Plains Depressions (F16)		Indicators for Problematic Hydric Soil³: <input type="checkbox"/> 1cm Muck (A9) (LRR I, J) <input type="checkbox"/> Coast Prairie Redox (A16)(LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR G) <input type="checkbox"/> High Plains Depressions (F16) (LRR H outside of MLRA 72 & 73) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (explain in remarks)	
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): <input type="checkbox"/> Type: _____ Depth (inches): _____	Hydric Soil Present? <u>No</u>
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Remarks:
The soil is dark, dry and sandy throughout the profile.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Salt Crust (B11) _____ High Water Table (A2) _____ Aquatic Invertebrates (B13) _____ Saturation (A3) _____ Hydrogen Sulfide Odor (C1) _____ Water Marks (B1) _____ Dry-Season Water Table (C2) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ (where not tilled) _____ Algal Mat or Crust (B4) _____ Presence of Reduced Iron (C4) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Water-Stained Leaves (B9) _____ Other (Explain in Remarks) _____ Inundation Visible on Aerial Imagery (B7)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Sparsely Vegetated Concave Surface (B8) _____ Drainage Patterns (B10) _____ Oxidized Rhizospheres on Living Roots (C3) _____ (where tilled) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ yes _____ Geomorphic Position (D2) _____ FAC-Neutral Test (D5) _____ Frost-Heave Hummocks (D7) (LRR F)	
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Field Observations: Surface Water Present? <u>No</u> Depth (inches) _____ Water Table Present? <u>No</u> Depth (inches) _____ Saturation Present? <u>No</u> Depth (inches) _____ (includes capillary fringe)	Wetland Hydrology Present? <u>No</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
The area is in a swale, however no wetland hydrology was observed.

Site Photograph 1

Sampling Point: u-150n39w29-c1





Latitude: 47.7765742410419

Cowardin Classification: _____

Longitude: -95.6759532541928

Circular 39: _____

Direction: _____

Eggers & Reed: _____

Remarks:

US Army Corps of Engineers

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Site Photograph 2

Sampling Point: u-150n39w29-c1

Latitude: _____

Cowardin Classification: _____

Longitude: _____

Circular 39: _____

Direction: _____

Eggers & Reed: _____

Remarks:

US Army Corps of Engineers

Northcentral and Northeast Region – Version 2.0