

**WETLAND DETERMINATION DATA FORM - Great Plains Region**

Project/Site: SPP City/County: Polk Sampling Date: 2015-07-15  
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: u-149n43w1-a1  
 Investigator(s): BCS/BJC Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Talf Local Relief (concave, convex, none): LL Slope (%): 2%  
 Subregion (LRR or MLRA): LRR F Latitude: 47.7595754480... Longitude: -96.09605809...  
 Datum: Minnesota State Plane North, NAD 83 (2011) U.S. feet

Soil Map Unit Name: Ulen; I65A NWI Classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): Yes  
 Are Vegetation No, Soil No, 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>	<b>Is the Sampled Area within a Wetland?</b>	
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.) Upland sample area located within a tilled, agricultural wheat field.			

**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. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b>
2. _____	_____	_____	_____	Total % Cover of: _____ Multiply by:
3. _____	_____	_____	_____	OBL species <u>0.00</u> x 1 <u>0</u>
4. _____	_____	_____	_____	FACW species <u>0.00</u> x 2 <u>0</u>
5. _____	_____	_____	_____	FACU species <u>0.00</u> x 3 <u>80</u>
<u>0</u> = Total Cover				UPL species <u>80.00</u> x 4 <u>400</u>
Herb Stratum (Plot Size: <u>5 ft</u> )				Column Totals <u>100</u> (A) <u>480</u> (B)
1. <u>Triticum aestivum</u>	<u>85.00</u>	<u>Yes</u>	_____	Prevalence Index = B/A = <u>4.8</u>
2. <u>Elymus repens</u>	<u>20.00</u>	<u>No</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b>
3. <u>Phleum pratense</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	_____ 1 - Rapid Test for Hydrophytic Vegetation
4. _____	_____	_____	_____	<u>no</u> 2 - Dominance Test is > 50%
5. _____	_____	_____	_____	<u>no</u> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>
6. _____	_____	_____	_____	_____ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
7. _____	_____	_____	_____	Problematic Hydrophytic Vegetation <sup>1</sup>
8. _____	_____	_____	_____	(Explain)
9. _____	_____	_____	_____	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
10. _____	_____	_____	_____	
<u>110</u> = Total Cover				
Woody Vine Stratum (Plot Size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0</u> = Total Cover				
% Bare Ground in Herb Stratum _____				<b>Hydrophytic Vegetation Present?</b> _____

Remarks:  
 Upland sample area dominated by cultivated wheat.

**SOIL**

Sampling Point: u-149n43...

**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 <sup>1</sup>	Loc <sup>2</sup>		
0-14	10YR 2 1	100					SIL	Very few fine CaCO3 concretions throughout
14-24	10YR 4 1	100					FSL	

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

<b>Hydric Soil Indicators:</b> <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)		<b>Indicators for Problematic Hydric Soil<sup>3</sup>:</b> <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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<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): <input type="checkbox"/>	Hydric Soil Present? <u>No</u>
Type: _____	
Depth (inches): _____	

Remarks:  
The observed profile consists of a black silt loam underlain by a light calcic horizon. The soil does not meet any hydric soil indicators.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

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

Remarks:  
No primary or secondary wetland hydrology indicators were observed.

Site Photograph 1

Sampling Point: u-149n43w1-a1

