

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: SPP City/County: Polk Sampling Date: 7/15/2015
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: u-149n39w24-c1
 Investigator(s): LEB/ACM Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): shoulder Local Relief (concave, convex, none): Convex
 Slope (%): 3 Latitude: 47.7170174662468 Longitude: -95.5873085931834 Datum: Minnesota State Plane North, NAD 83 (2011) U.S. f...
 Soil Map Unit Name: 296 NWI Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks):
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present?
 Are Vegetation , Soil , or Hydrology 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? If yes, optional Wetland Site ID: _____
Hydric Soil Present?	<u>No</u>	
Wetland Hydrology Present?	<u>No</u>	

Remarks: (Explain alternative procedures here or in a separate report.)
 The upland sample point is located on a shoulder between a roadside ditch and two gravel roads.

VEGETATION - Use scientific names of plants.

Sampling Point: u-149n39...

Tree Stratum (Plot Size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.00</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
0 _____ = Total Cover				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
0 _____ = Total Cover				
Sapling/Shrub Stratum (Plot Size: <u>15</u>) 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 0 _____ = Total Cover				
Herb Stratum (Plot Size: <u>5</u>) 1. <u>Bromus inermis</u> 60.00 Yes FACU 2. <u>Anemone canadensis</u> 15.00 No FACW 3. <u>Polygonum aviculare</u> 10.00 No FAC 4. <u>Cirsium arvense</u> 5.00 No FACU 5. <u>Ambrosia artemisiifolia</u> 2.00 No FACU 6. <u>Taraxacum officinale</u> 2.00 No FACU 7. _____ 8. _____ 9. _____ 10. _____ 94 _____ = Total Cover				
Woody Vine Stratum (Plot Size: _____) 1. _____ 2. _____ 0 _____ = Total Cover				

Remarks: (include photo numbers here or on a separate sheet.)
 The vegetation is dominated by smooth brome with scattered Canada anemone and prostrate knotweed along the roadside.

SOIL

Sampling Point: u-149n39...

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		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- 2 cm Muck (A10)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- 5 cm Mucky Peat or Peat (S3)

- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soil³:

- Coast Prairie Redox (A16)(LRR K, L, R)
- Dark Surface (S7) (LRR K, M)
- Iron-Maganese Masses (F12) (LRR K, L, R)
- Very Shallow Dark Surface (TF12)
- Other (explain in remarks)

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? No _____

Remarks:
Soils could not be sampled due to the roadside location; soils are assumed to be non-hydric based on the landscape position and dominance of non-hydrophytic vegetation.

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

Secondary Indicators (minimum of two required)

- | | | |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Surface Soil Cracks (B6) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Aquatic Fauna (B13) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> True Aquatic Plants | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Stunted/Stressed Plants (D1) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Thick Muck Surface | <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Gauge or Well Water | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Other (Explain in Remarks) | |

Field Observations:

Surface Water Present? No Depth (inches) _____

Water Table Present? No Depth (inches) _____

Saturation Present? No Depth (inches) _____

(includes capillary fringe)

Wetland Hydrology Present? No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
No indicators of wetland hydrology were observed.