

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: SPP City/County: Polk Sampling Date: 7/14/2015
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-149n39w22-a1
 Investigator(s): ACM/LEB Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): depression Local Relief (concave, convex, none): Concave
 Slope (%): 5 Latitude: 47.7147695236352 Longitude: -95.6395234075334 Datum: Minnesota State Plane North, NAD 83 (2011) U.S. f...
 Soil Map Unit Name: 20B NWI Classification: PUBH

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>Yes</u>	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID: _____
Hydric Soil Present?	<u>Yes</u>	
Wetland Hydrology Present?	<u>Yes</u>	

Remarks: (Explain alternative procedures here or in a separate report.)
 The wetland is a shallow marsh located on the fringe of a small lake and dominated by narrow-leaf cattail and reed canary grass with some box elder saplings. Soils could not be sampled because the wetland is on a roadside.

VEGETATION - Use scientific names of plants.

Sampling Point: w-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>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
0 _____ = Total Cover				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" 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) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Sapling/Shrub Stratum (Plot Size: <u>15</u>) 1. <u>Acer negundo</u> <u>20.00</u> <u>Yes</u> <u>FAC</u> 2. _____ _____ _____ _____ 3. _____ _____ _____ _____ 4. _____ _____ _____ _____ 5. _____ _____ _____ _____ 20 _____ = Total Cover				
Herb Stratum (Plot Size: <u>5</u>) 1. <u>Typha angustifolia</u> <u>50.00</u> <u>Yes</u> <u>OBL</u> 2. <u>Phalaris arundinacea</u> <u>25.00</u> <u>Yes</u> <u>FACW</u> 3. <u>Urtica dioica</u> <u>15.00</u> <u>No</u> <u>FACW</u> 4. <u>Cirsium arvense</u> <u>10.00</u> <u>No</u> <u>FACU</u> 5. <u>Carex atherodes</u> <u>5.00</u> <u>No</u> <u>OBL</u> 6. _____ _____ _____ _____ 7. _____ _____ _____ _____ 8. _____ _____ _____ _____ 9. _____ _____ _____ _____ 10. _____ _____ _____ _____ 105 _____ = 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 narrow-leaf cattail and reed canary grass with box elder saplings.				

Hydrophytic Vegetation Present? _____

SOIL

Sampling Point: w-149n3...

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? Yes _____

Remarks:
Soils were not sampled due to the location in a roadside ditch, but are assumed to be hydric based on the landscape position and dominance of hydrophytic vegetation.

Wetland Hydrology Indicators:

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

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- True Aquatic Plants
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thick Muck Surface
- Gauge or Well Water
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted/Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

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? Yes _____

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

Remarks:
The wetland is located in a ditch between a road and a small lake; the vegetation passes the FAC-neutral test.