

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Aitkin Sampling Date: 2016-08-17
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-50n26w7-k1
 Investigator(s): ZCW, MGH Section, Township, Range: S7, T50N, R26W
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 0-2%
 Subregion (LRR or MLRA): _____ Latitude: 46.8402175466... Longitude: -93.68137168... Datum: NAD83
 Soil Map Unit Name: 292 NWI Classification: N/A
 Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): No
 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>Yes</u> | Is the Sampled Area within a Wetland? | |
| Hydric Soil Present? | <u>Yes</u> | | <u>Yes</u> |
| Wetland Hydrology Present? | <u>Yes</u> | | If yes, optional Wetland Site ID: <u>w-50n26w7-k</u> |
| Remarks: (Explain alternative procedures here or in a separate report.) Climatic conditions are "wet" based on the results of a WETS analysis. | | | |

HYDROLOGY

| Wetland Hydrology Indicators: | <u>Secondary Indicators (minimum of two required)</u> |
|--|---|
| <u>Primary Indicators (minimum of one is required; check all that apply)</u> | |
| <u>yes</u> Surface Water (A1) | <u> </u> Surface Soil Cracks (B6) |
| <u>no</u> High Water Table (A2) | <u> </u> Drainage Patterns (B10) |
| <u>no</u> Saturation (A3) | <u> </u> Moss Trim Lines (B16) |
| <u> </u> Water Marks (B1) | <u> </u> Dry-Season Water Table (C2) |
| <u> </u> Sediment Deposits (B2) | <u> </u> Crayfish Burrows (C8) |
| <u> </u> Drift Deposits (B3) | <u> </u> Saturation Visible on Aerial Imagery (C9) |
| <u> </u> Algal Mat or Crust (B4) | <u> </u> Stunted/Stressed Plants (D1) |
| <u> </u> Iron Deposits (B5) | <u> </u> <u>YES</u> Geomorphic Position (D2) |
| <u> </u> Inundation Visible on Aerial Imagery (B7) | <u> </u> Shallow Aquitard (D3) |
| <u> </u> Sparsely Vegetated Concave Surface (B8) | <u> </u> Microtopographic Relief (D4) |
| | <u> </u> <u>YES</u> FAC-Neutral Test (D5) |

| | | | |
|--|------------|-----------------------------------|------------|
| Field Observations: | | Wetland Hydrology Present? | <u>Yes</u> |
| Surface Water Present? | <u>Yes</u> | Depth (inches) <u>3</u> | |
| Water Table Present? | <u>Yes</u> | Depth (inches) <u>0</u> | |
| Saturation Present? (includes capillary fringe) | <u>Yes</u> | Depth (inches) <u>0</u> | |

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

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: w-50n26w...

| | Absolute % Cover | Dominant Species? | Indicator Status | |
|--|------------------|-------------------|------------------|--|
| Tree Stratum (Plot Size: <u>30</u>) | | | | |
| 1. _____ | _____ | _____ | _____ | 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</u> (A/B) |
| 2. _____ | _____ | _____ | _____ | |
| 3. _____ | _____ | _____ | _____ | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| 6. _____ | _____ | _____ | _____ | |
| 7. _____ | _____ | _____ | _____ | |
| 0 _____ = Total Cover | | | | |
| Sapling/Shrub Stratum (Plot Size: <u>15</u>) | | | | |
| 1. _____ | _____ | _____ | _____ | Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>60.00</u> x 1 <u>60</u> FACW species <u>15.00</u> x 2 <u>30</u> FACU species <u>0.00</u> x 3 <u>0</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>75</u> (A) <u>90</u> (B) Prevalence Index = B/A = <u>1.2</u> |
| 2. _____ | _____ | _____ | _____ | |
| 3. _____ | _____ | _____ | _____ | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| 6. _____ | _____ | _____ | _____ | |
| 7. _____ | _____ | _____ | _____ | |
| 0 _____ = Total Cover | | | | |
| Herb Stratum (Plot Size: <u>5</u>) | | | | |
| 1. Typha X glauca | 35.00 | Yes | OBL | Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation yes _____ 2 - Dominance Test is > 50% yes _____ 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. |
| 2. Scirpus cyperinus | 25.00 | Yes | OBL | |
| 3. Poa palustris | 15.00 | Yes | FACW | |
| 4. _____ | _____ | _____ | _____ | |
| 5. _____ | _____ | _____ | _____ | |
| 6. _____ | _____ | _____ | _____ | |
| 7. _____ | _____ | _____ | _____ | |
| 8. _____ | _____ | _____ | _____ | |
| 9. _____ | _____ | _____ | _____ | |
| 10. _____ | _____ | _____ | _____ | |
| 11. _____ | _____ | _____ | _____ | |
| 12. _____ | _____ | _____ | _____ | |
| 75 _____ = Total Cover | | | | |
| Woody Vine Stratum (Plot Size: <u>30</u>) | | | | |
| 1. _____ | _____ | _____ | _____ | Definitions of Vegetation Strata: Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. |
| 2. _____ | _____ | _____ | _____ | |
| 3. _____ | _____ | _____ | _____ | |
| 4. _____ | _____ | _____ | _____ | |
| 0 _____ = Total Cover | | | | |
| | | | | Hydrophytic Vegetation Present? <u>Yes</u> |
| Remarks: (include photo numbers here or on a separate sheet.) | | | | |
| | | | | |

Site Photograph 1

Sampling Point: w-50n26w7-k1



Latitude: 46.8401970947598

Cowardin Classification: PEM

Longitude: -93.6813447811582

Circular 39: 2

Direction: West

Eggers & Reed: Fresh (Wet) Meadow

Remarks:



Latitude: 46.8401973043073

Cowardin Classification: PEM

Longitude: -93.6813446135201

Circular 39: 2

Direction: West

Eggers & Reed: Fresh (Wet) Meadow

Remarks:

Empty rectangular box for additional remarks.