## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

| Project/Site: RSA 22                                     | City/County: St. Louis  | Sampling Date: 15-Sep-17                                     |
|--|---|--|
| Applicant/Owner: Enbridge                                | State:  | MN Sampling Point: u-50n19w7-e2                              |
| Investigator(s): DPT                                     | Section, Township, Ran  | ge: S. 7 T. 50N R. 19W                                       |
| Landform (hillslope, terrace, etc.): Hillside            | Local relief (concave, conve  |  |
| Subregion (LRR or MLRA): LRR K                           | <b>Lat.:</b> 46 49.6091   | Long.: -92 47.4173   |
| Soil Map Unit Name: B127B                                |   | NWI classification: N/A                                      |
| Are climatic/hydrologic conditions on the site ty        | rpical for this time of year? Yes  No                                     | (If no, explain in Remarks.)                                 |
| Are Vegetation, Soil, or Hydrol                          |   | rmal Circumstances" present? Yes  No                         |
| Are Vegetation, Soil, or Hydrol                          |   | ed, explain any answers in Remarks.)                         |
| _ , _ ,  | •   | ions, transects, important features, etc                     |
| Hydrophytic Vegetation Present? Yes                      | No •  |  |
| Hydric Soil Present? Yes                                 | No • Is the Sampled Are within a Wetland?                                 | ea Yes ○ No •  |
| Wetland Hydrology Present? Yes                           | No •  | 100 - 110 -  |
| Remarks: (Explain alternative procedures here            | o or in a constrate report )  |  |
| Hydrology Wetland Hydrology Indicators:                  |   | Secondary Indicators (minimum of 2 required)                 |
| Primary Indicators (minimum of one required;             | check all that apply)   | Surface Soil Cracks (B6)                                     |
| Surface Water (A1)                                       | Water-Stained Leaves (B9)   | Drainage Patterns (B10)                                      |
| High Water Table (A2)                                    | Aquatic Fauna (B13)   | Moss Trim Lines (B16)  |
| Saturation (A3)  | Marl Deposits (B15)   | Dry Season Water Table (C2)                                  |
| Water Marks (B1)   | ☐ Hydrogen Sulfide Odor (C1)  | Crayfish Burrows (C8)  |
| Sediment Deposits (B2)  Drift deposits (B3)              | Oxidized Rhizospheres along Living Roots (C3)                             | Saturation Visible on Aerial Imagery (C9)                    |
| Algal Mat or Crust (B4)                                  | Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6) | ☐ Stunted or Stressed Plants (D1) ☐ Geomorphic Position (D2) |
| Iron Deposits (B5)                                       | Thin Muck Surface (C7)  | Shallow Aguitard (D3)  |
| Inundation Visible on Aerial Imagery (B7)                | Other (Explain in Remarks)  | Microtopographic Relief (D4)                                 |
| Sparsely Vegetated Concave Surface (B8)                  | outer (Explain in remarks)  | FAC-neutral Test (D5)  |
| Field Observations:                                      |   |  |
| Surface Water Present? Yes No •                          | Depth (inches):0  |  |
| Water Table Present? Yes No •                            | Depth (inches):0  |  |
| Saturation Present? (includes capillary fringe) Yes No • | Depth (inches): 0   | Hydrology Present? Yes O No 💿                                |
|  | oring well, aerial photos, previous inspections), if a                    | available:   |
| Remarks:   |   |  |
| Remarks.   |   |  |
|  |   |  |
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## **VEGETATION - Use scientific names of plants**

| VEGETATION - OSE SCIENCING Harnes of pla                 | Sampling Point: u-50n19w7-e2 |                   |           |   |
|--|------------------------------|-------------------|-----------|---|
| (Dist. size. 20  | Absolute                     |                   | Indicator | Dominance Test worksheet:   |
| Tree Stratum (Plot size: 30 )                            | % Cover                      | _Species:         | Status    | Number of Dominant Species  |
| 1  |                              |                   |           | That are OBL, FACW, or FAC:0(A)   |
| 2  |                              |                   |           | Total Number of Dominant  |
| 3  |                              |                   |           | Species Across All Strata: (B)  |
| 4  |                              |                   |           | Percent of dominant Species   |
| 5  |                              |                   |           | That Are OBL, FACW, or FAC: 0.0% (A/B)  |
| 6  |                              |                   |           |   |
| 7  |                              |                   |           | Prevalence Index worksheet:   |
| Sapling/Shrub Stratum (Plot size: 15 )                   | =                            | Total Cover       |           | Total % Cover of: Multiply by:  |
| 1  | 0                            |                   |           | 0BL speci es x 1 =0   |
| 2  |                              |                   |           | FACW species 0 x 2 = 0  |
| 3  |                              |                   |           | FAC speciles x 3 =  |
| 4  |                              |                   |           | FACU species x 4 =400   |
| 5  |                              |                   |           | UPL speci es x 5 =  |
| 6  |                              | $\Box$            |           | Column Total s: 100 (A) 400 (B)   |
| 7  |                              |                   |           | Prevalence Index = B/A = 4,000  |
|  |                              | = Total Cover     |           |   |
| Herb Stratum (Plot size: 5                               |                              | - rotal cover     |           | Hydrophytic Vegetation Indicators:  |
| 1 Tanacetum vulgare                                      | 40                           | <b>✓</b>          | FACU      | Rapid Test for Hydrophytic Vegetation   |
| 2. Poa pratensis   | - 10                         |                   | FACU      | Dominance Test is > 50%   |
| 3. Phleum pratense                                       |                              |                   | FACU      | Prevalence Index is ≤3.0 ¹  |
| 4. Lotus corniculatus                                    |                              | <b>✓</b>          | FACU      | Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)    |
| 5. Trifolium pratense                                    | 10                           |                   | FACU      | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)   |
| 6. Cirsium arvense                                       | - 10                         |                   | FACU      | Problematic Hydrophytic Vegetation - (Explain)  |
| 7  |                              |                   |           | <sup>1</sup> Indicators of hydric soil and wetland hydrology must                                     |
| 8  |                              |                   |           | be present, unless disturbed or problematic.  |
| 9  |                              |                   |           | Definitions of Vegetation Strata:   |
| 10   |                              |                   |           | Tree Woods plants 2 in (7.6 cm) or more in diameter   |
| 11   |                              |                   |           | Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 12   |                              |                   |           |   |
| 12   |                              | 100 = Total Cover |           | Sapling/shrub - Woody plants less than 3 in. DBH and  |
| Woody Vine Stratum (Plot size: 30                        |                              | - rotal core      |           | greater than 3.28 ft (1m) tall  |
| 1  | 0                            |                   |           | Herb - All herbaceous (non-woody) plants, regardless of   |
| 2  | 0                            |                   |           | size, and woody plants less than 3.28 ft tall.  |
| 3  | 0                            |                   |           | Woody vine - All woody vines greater than 3.28 ft in  |
| 4  | 0                            |                   |           | height.   |
|  | 0 =                          | Total Cover       |           |   |
|  |                              |                   |           |   |
|  |                              |                   |           |   |
|  |                              |                   |           |   |
|  |                              |                   |           | Hydrophytic Vegetation  |
|  |                              |                   |           | Present? Yes No •   |
|  |                              |                   |           |   |
| Remarks: (Include photo numbers here or on a separate sh | eet.)                        |                   |           |   |
|  |                              |                   |           |   |
|  |                              |                   |           |   |
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<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: u-50n19w7-e2

|                            | ption: (De    | scribe to  | the depth   | needed to document             | the indicator or    | confirm the                        | absence of indicators.)    |   |
|----------------------------|---------------|------------|-------------|--------------------------------|---------------------|------------------------------------|----------------------------|---|
| Depth<br>(inches)          | 0-1(          | Matrix     | 0/          |                                | ox Features         | 1                                  | -<br>-                     | Barranta  |
|                            | Color (       | 3/4        | 100         | Color (moist)                  | % Type              | 1 Loc²                             | Texture  Loamy Sand        | Remarks   |
| 0-8                        | 10YR          |            | 100         |                                |                     |                                    |                            |   |
| 8-20                       | 10YR          | 4/4        | 100         |                                |                     |                                    | Sand                       |   |
|                            |               |            |             |                                |                     |                                    |                            |   |
|                            |               |            |             |                                |                     |                                    |                            |   |
|                            |               |            |             |                                |                     |                                    |                            |   |
|                            |               |            |             |                                |                     |                                    |                            |   |
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|                            |               |            |             |                                |                     |                                    |                            |   |
|                            |               |            |             |                                |                     |                                    |                            |   |
|                            |               |            |             |                                |                     |                                    |                            |   |
|                            |               |            |             |                                |                     |                                    |                            |   |
| 1 Type: C=Cond             | entration. D  | =Depletion | n. RM=Rec   | luced Matrix, CS=Covere        | d or Coated Sand    | — ————<br>Grains <sup>2</sup> Loca | ation: PL=Pore Lining. M=N |   |
| Hydric Soil I              |               | •          |             |                                |                     |                                    |                            | ematic Hydric Soils: 3                          |
| Histosol (A                |               |            |             |                                | Surface (S8) (LRI   | RR,                                |                            |   |
| Histic Epip                | edon (A2)     |            |             | MLRA 149B)                     |                     |                                    |                            | (LRR K, L, MLRA 149B)<br>ox (A16) (LRR K, L, R) |
| Black Histi                | c (A3)        |            |             |                                | ce (S9) (LRR R, M   |                                    |                            | or Peat (S3) (LRR K, L, R)                      |
| Hydrogen                   | Sulfide (A4)  |            |             |                                | lineral (F1) LRR K, | L)                                 | Dark Surface (S7)          |   |
|                            | _ayers (A5)   |            |             | Loamy Gleyed N                 |                     |                                    |                            | furface (S8) (LRR K, L)                         |
|                            | Below Dark S  |            | 11)         | Depleted Matrix                |                     |                                    | Thin Dark Surface          |   |
|                            | Surface (A    |            |             | Redox Dark Sur Depleted Dark S |                     |                                    |                            | Masses (F12) (LRR K, L, R)                      |
| _                          | ck Mineral (S |            |             | Redox Depressi                 |                     |                                    |                            | nin Soils (F19) (MLRA 149B)                     |
|                            | yed Matrix (  | S4)        |             | ☐ Redox Depressi               | DIIS (I O)          |                                    | ☐ Mesic Spodic (TA6        | o) (MLRA 144A, 145, 149B)                       |
| Sandy Red                  |               |            |             |                                |                     |                                    | Red Parent Materi          | al (F21)  |
| Stripped N                 |               |            | 1.40D)      |                                |                     |                                    | Very Shallow Dark          |   |
|                            | ice (S7) (LRI |            |             |                                |                     |                                    | Other (Explain in I        | Remarks)  |
| <sup>3</sup> Indicators of | hydrophytic   | vegetation | n and wetla | and hydrology must be p        | esent, unless dist  | urbed or probl                     | lematic.                   |   |
| Restrictive La             | yer (if obs   | erved):    |             |                                |                     |                                    |                            |   |
| Type:                      |               |            |             |                                |                     |                                    |                            |   |
| Depth (inch                | nes):         |            |             |                                |                     |                                    | Hydric Soil Present?       | Yes ○ No •                                      |
| Remarks:                   |               |            |             |                                |                     |                                    |                            |   |
|                            |               |            |             |                                |                     |                                    |                            |   |
|                            |               |            |             |                                |                     |                                    |                            |   |
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|                            |               |            |             |                                |                     |                                    |                            |   |