WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | Date: County: | 09/12/14 | | |
|--|--|--|--|--|--|--|--|---|--|--|---|--|--|
| Applicant: | Enbridge | | | Subregion (MLRA or LRR): MLRA 56 | | | | | | | Pennington | | |
| Investigators | | RAJ/BEH/MRK | | | Subregio | n (MLRA (| , | State: | MN | | | | |
| Soil Unit: | 166A | | | <u> </u> | | | Classification: | | | 4 | 454 45 0514 | | |
| Landform: | Dip | | 40 | | al Relief: | | × 4 = 7 | | | Sample Point: | w-154n45w25-h1 | | |
| Slope (%): 0 - 2% Latitude: 48.124818 Longitude: -96.370847 Datum: | | | | | | | | | | | | | |
| Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section: | | | | | | | | | | | | | |
| Are Vegetation | | □, or Hydrology | • | • | | Are | normal circun | - | esent? | Township: | | | |
| Are Vegetation | | , , | □aturally p | oblematic? | | | ✓ Yes | □ No | | Range: | Dir: | | |
| SUMMARY OF FINDINGS | | | | | | | | | | | | | |
| Hydrophytic \ | _ | | Yes | | | | | | | oils Present? Yes | | | |
| Wetland Hyd | | | Yes | | | | | | | | | | |
| Remarks: | A wet mead | ow dominated by r | eed canary | grass in a hayf | ield. The | vegetatio | n is disturbed | by mowing | but most s | pecies are sti | I identifiable. All parameters of | | |
| wetland conditions are present. | | | | | | | | | | | | | |
| HYDROLOGY | | | | | | | | | | | | | |
| Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): | | | | | | | | | | | | | |
| Primary: | | | | | | | | | | | | | |
| □ A1 - Surface Water | | | | □ B11 - Salt Crust □ | | | | | | | oil Cracks | | |
| | | | | | B13 - Aqua | | | | | | Vegetated Concave Surface | | |
| | A3 - Saturation | | | | | gen Sulfide | | | | B10 - Drainage | | | |
| | B1 - Water Ma | | | | | eason Wate | | Doots (not till | | | Rhizospheres on Living Roots (tilled) | | |
| | B2 - Sediment B3 - Drift Depo | • | | | | ea Knizosp nce of Redi | oheres on Living | Roots (not till | | C8 - Crayfish E | o Visible on Aerial Imagery | | |
| | B4 - Algal Mat | | | | | /luck Surfac | | | _ | D2 - Geomorp | 5 , | | |
| | B5 - Iron Depo | | | | Other (Exp | | | | ✓ | D5 - FAC-Neu | | | |
| | | n Visible on Aerial Ima | agery | | ` . | , | | | | D7 - Frost-Hea | ved Hummocks (LRR F) | | |
| | B9 - Water-Sta | ained Leaves | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Field Observations: | | | | | | | | | | | | | |
| Surface Wate | er Present? | Yes □ | Dep | h: | (in.) | | | Wetland H | lydrology | Procent? | Υ | | |
| Water Table | Present? | Yes □ | Dep | h: | (in.) | | | vvetiana n | iyurology | rieseiit: | <u></u> | | |
| Saturation Pr | esent? | Yes □ | Dep | h: | (in.) | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | | | | | | | | | |
| | | | <u>'</u> | | | ections) it | f available: | | | | | | |
| Describe Rec | orded Data (s | tream gauge, monit | toring well, a | erial photos, pre | | ections), it | f available: | | | | | | |
| | orded Data (s | | toring well, a | erial photos, pre | | ections), it | f available: | | | | | | |
| Describe Reco | orded Data (s | tream gauge, monit | toring well, a | erial photos, pre | | ections), if | f available: | | | | | | |
| Describe Reco | orded Data (s Indicators of | tream gauge, monit wetland hydrology | toring well, a | erial photos, pre t. | vious insp | , | | dicators.) | | | | | |
| Describe Reconstruction Remarks: SOILS Profile Descri | orded Data (s Indicators of ption (Descri | tream gauge, monit | toring well, ac y are preser | erial photos, pre t. ument the indic | vious insp | onfirm the | absence of in | | | | | | |
| Describe Reconstruction Remarks: SOILS Profile Descri | orded Data (s Indicators of ption (Descri | tream gauge, monite wetland hydrology one to the depth needs | toring well, ac y are preser | erial photos, pre t. ument the indic | vious insp | onfirm the | absence of in | | | | | | |
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| Describe Reconstruction Remarks: SOILS Profile Descri (Type: C=Concer | orded Data (s Indicators of ption (Describeration, D=Deple | tream gauge, monite wetland hydrology one to the depth need to the | toring well, ac y are preser | erial photos, pre t. ument the indiced/Coated Sand G | vious insp ator or co | onfirm the | absence of in re Lining, M=Matr s | | Texture | | Remarks | | |
| Describe Reconstruction Remarks: SOILS Profile Descri (Type: C=Concert Depth (In.) | orded Data (s Indicators of ption (Descril | tream gauge, monite wetland hydrology oe to the depth need to the Matrix Color (Moist) | toring well, activity are preserted to doctoring. CS=Cover | erial photos, prett. Iment the indiced/Coated Sand G | vious insp ator or co | onfirm the tion: PL=Por Mottles | absence of in | ix) | Texture | | Remarks | | |
| Describe Reconstruction Remarks: SOILS Profile Descripation (Type: C=Concert) Depth (In.) 0-10 | prion (Describeration, D=Deple | tream gauge, monite wetland hydrology oe to the depth need to the Matrix Color (Moist) 2/1 | toring well, acy are preser eded to docutrix, CS=Cover | erial photos, prest. ument the indiced/Coated Sand General Color (No.) | vious inspectator or contains; Local | onfirm the tion: PL=Por Mottle: | absence of ingre Lining, M=Matres S | Location | CL | vertical streaks | Remarks | | |
| Describe Recorder Remarks: SOILS Profile Descri (Type: C=Concerd Depth (In.) 0-10 10-14 | ption (Describeration, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y | tream gauge, monite wetland hydrology oe to the depth need to the Matrix Matrix Color (Moist) 2/1 5/1 | toring well, acy are preser eded to docutrix, CS=Cover | crial photos, prest. ument the indiced/Coated Sand Good Coated Sand Good Color (No. 1) Hue_10YR | vious inspectator or contrains; Locate Moist) | onfirm the | absence of in re Lining, M=Matr s Type | Location M | CL CL | vertical streaks | Remarks | | |
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| Describe Recorder Remarks: SOILS Profile Descrit (Type: C=Concerd Type: C=Con | ption (Describeration, D=Deplementation, D=Deple | wetland hydrology be to the depth need to the d | eded to docentrix, CS=Cover | crial photos, prest. Iment the indicators and Geometric description of the indicators are not seen as a seen of the indicators are not seen of the indindicators are not seen of the indicators are not seen of the indi | vious inspectator or contains; Local Moist) 2/1 5/6 8/1 ot presented ox Matrix ucky Mineral eyed Matrix ucky Mineral eyed Matrix | Mottles 20 5 5 t): | absence of in re Lining, M=Matr s Type C C D | Location M M M | CL CL SCL SCL Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F | fine sandy fine sandy. Calci for Problematic fuck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression | c accumulations. | | |
| Describe Recorder Remarks: SOILS Profile Descrit (Type: C=Concerd Type: C=Con | ption (Describeration, D=Deplementation, D=Deple | wetland hydrology be to the depth need to the d | eded to docentrix, CS=Cover | crial photos, prest. Iment the indicators are numerators are nume | vious inspectator or contrains; Local Moist) 2/1 5/6 8/1 ot presentedox Watrix ucky Mineral eyed Matrix Matrix | Mottles 20 5 5 t): | absence of in re Lining, M=Matr s Type C C D | Location M M M —————————————————————————————— | CL CL SCL SCL Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce | fine sandy fine sandy. Calci for Problematic fuck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression | e accumulations. Soils ¹ LRR F, G, H) | | |
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WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | L3R | | | | Sample Point: w-154n45w25-h1 | | | | | |
|-----------------|---|---|-----------------|------------|--|--|--|--|--|--|
| | | | | | | | | | | |
| VEGETATION (| ` ' | ire non-native | species.) | | | | | | | |
| Tree Stratum (| (Plot size: 30 ft. radius) Species Name | % Cover | <u>Dominant</u> | Ind.Status | Dominance Test Worksheet | | | | | |
| 1. | <u> </u> | <u>,,, ,, , , , , , , , , , , , , , , , ,</u> | <u> </u> | <u></u> | | | | | | |
| 2. | | | | | Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) | | | | | |
| 3. | | | | | | | | | | |
| 4. | | | | | Total Number of Dominant Species Across All Strata:1 (B) | | | | | |
| 5. | | | | | | | | | | |
| 6. | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) | | | | | |
| 7. | | | | | | | | | | |
| 8. | | | | | Prevalence Index Worksheet | | | | | |
| 9. | | 4 | | | Total % Cover of: Multiply by: | | | | | |
| 10. | Tatal Cavan | | | | OBL spp. 2 | | | | | |
| | Total Cover = | = 0 | | | FACW spp. 84 $\times 2 = 168$ | | | | | |
| Conling/Chrub (| Stratum (Diet eizer 15 ft radius) | | | | FACTION $3 = 15$ | | | | | |
| Sapling/Shrub 3 | Stratum (Plot size: 15 ft. radius) | 1 | | | FACU spp. $0 \times 5 = 0$ | | | | | |
| 2. | | 1 | | | σε ε spp σ = σ | | | | | |
| 3. | | 1 | | | Total 91 (A) 185 (B) | | | | | |
| 4. | | 1 | | | | | | | | |
| 5. | | | | | Prevalence Index = B/A = 2.033 | | | | | |
| 6. | | | | | | | | | | |
| 7. | | | | | | | | | | |
| 8. | | | | | Hydrophytic Vegetation Indicators: | | | | | |
| 9. | | | | | Rapid Test for Hydrophytic Vegetation | | | | | |
| 10. | | | | | X Dominance Test is > 50% | | | | | |
| | Total Cover = | 0 | | | X Prevalence Index is ≤ 3.0 * | | | | | |
| | | | | | Morphological Adaptations (Explain) * | | | | | |
| Herb Stratum (| Plot size: 5 ft. radius) | | | | Problem Hydrophytic Vegetation (Explain) * | | | | | |
| 1. | Phalaris arundinacea | 70 | Υ | FACW | | | | | | |
| 2. | Calamagrostis stricta | 5 | N | FACW | * Indicators of hydric soil and wetland hydrology must be | | | | | |
| 3. | Apocynum cannabinum | 5 | N | FAC | present, unless disturbed or problematic. | | | | | |
| 4. | Symphyotrichum lanceolatum | 5 | N | FACW | Definitions of Vegetation Strata: | | | | | |
| 5. | Packera pseudaurea | 3 | N | FACW | <u>_</u> | | | | | |
| 6 | Juncus canadensis | 2 | N | OBL | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast | | | | | |
| 7. | Mentha arvensis | 1 | N | FACW | height (DBH), regardless of height. | | | | | |
| 8. | | | | | On the wife Woody plants loss than 2 in DRH regardless of height | | | | | |
| 9. | | | | | Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. | | | | | |
| 10. | | | | | | | | | | |
| 11. | | | | | Herb - All herbaceous (non-woody) plants, regardless of size. | | | | | |
| 12. 13. | | | | | Herb - / III horbaccous (non wessay) plante, regardless of size. | | | | | |
| 14. | | | | | | | | | | |
| 15. | | | | | Woody Vines - All woody vines, regardless of height. | | | | | |
| 10. | Total Cover = | = 91 | | | vvoody vinos a vin voody vinos, vogarances er voignin | | | | | |
| | Total Cover - | - 91 | _ | | | | | | | |
| Woody Vine St | ratum (Plot size: 30 ft. radius) | | | | | | | | | |
| 1. | Tatam (Fiot 5/26: 66 ft. radias) | | | | | | | | | |
| 2. | | | | | | | | | | |
| 3. | | | | | Hydrophytic Vegetation Present? Y | | | | | |
| 5. | | | | | | | | | | |
| 4. | | | | | | | | | | |
| | Total Cover = | | | | | | | | | |
| Remarks: | A wet meadow dominated by reed canary g | rass in a ha | yfield. Hy | drophytic | vegetation is present. There is a 1-inch layer of wetland moss on the surface. | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Additional R | Remarks: | | | | | | | | | |
| | | | | | | | | | | |
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