WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | | Date: | 10/04/14 |
|--|--|--|----------------|---|---|---|------------------------------|---|-------------------|--|---|---|
| Applicant: | Enbridge | | | | | | | | | | County: | Polk |
| Investigators | | | | Subregion (MLRA or LRR): MLRA 56 | | | | | | State: | MN | |
| Soil Unit: | | 712 NWI Classification: | | | | | | | | O I. D | 450×40·24 ×4 | |
| Landform: Slope (%): | Talf 0 - 2% | Local Relief: LL Latitude: 47.8042808 Longitude: -95.7162325 | | | | | | | Dotum | | Sample Point | u-150n40w24-g1 |
| | | nditions on the site | | | | | | | Datum: ☑Yes | □No | Section: | |
| Are Vegetation | | or Hydrology | | | | ii: (ii no, exp | | normal circum | | | | |
| Are Vegetation | | ☐ or Hydrology | | | | | Aic | ✓ Yes | □No | 330111: | Township: Range: | Dir: |
| SUMMARY C | | | Latarany | proble | matio: | | | 00 | | | range. | DII. |
| Hydrophytic \ | | | No | 0 | | | | | Hydric Soi | s Present? | Yes | |
| Wetland Hyd | | | No. | | | | | | | | nt Within A W | etland? No |
| Remarks: | | sample point is lo | | | elevated | area withi | n an ope | n pasture. Soil | | | | ever, no other wetland indicators |
| HYDROLOG | Υ | | | | | | | | | | | |
| | | estere (Chaok all | l that apply | e Minim | um of on | o primoru | or two or | oondon, roqui | od). | | | |
| Primary: | | cators (Check all | і шасарріу | /, IVIII III II | ium oi one | e primary | OI IWO SE | econdary requi | eu). | Secondary: | | |
| | A1 - Surface \ | Vater | | | | B11 - Salt (| Crust | | | | B6 - Surface S | Soil Cracks |
| | A2 - High Wat | | | | | B13 - Aqua | itic Fauna | | | | B8 - Sparsely | Vegetated Concave Surface |
| | A3 - Saturatio | | | | | C1 - Hydro | | | | | B10 - Drainag | |
| | B1 - Water Ma B2 - Sedimen | | | | | C2 - Dry Se | | er Table pheres on Living | Poote (not till | | C3 - Oxidized C8 - Crayfish | Rhizospheres on Living Roots (tilled) |
| 1 5 | B3 - Drift Dep | | | | | C4 - Prese | | | 1100ts (110t till | | | n Visible on Aerial Imagery |
| | B4 - Algal Mat | or Crust | | | | C7 - Thin N | | ce | | | D2 - Geomorp | |
| | B5 - Iron Depo | | | | | Other (Exp | lain) | | | | D5 - FAC-Neu | |
| | B7 - Inundatio | n Visible on Aerial Im | nagery | | | | | | | | D7 - Frost-He | aved Hummocks (LRR F) |
| - | 20 | aoa 20a.00 | | | | | | | | | | |
| Field Observ | vations: | | | | | | | | | | | |
| Surface Water | | Yes 🔲 | De | epth: | | (in.) | | | | | | |
| Water Table | | Yes 🗆 | | | | (in.) | | | Wetland F | lydrology l | Present? | N |
| Saturation Pr | | Yes | | epth: | | (in.) | | | | | | |
| | | | | | | ` ' | antiona) | if available. | | | | |
| | | tream gauge, moni | | | | | | ii avallable. | | | | |
| Remarks: | NO primary | or secondary indic | cators or we | elianu n | riyarology | were obs | erveu. | | | | | |
| SOU S | | | | | | | | | | | | |
| SOILS | | | | | | | | | | | | |
| SOILS Profile Descri | iption (Descri | be to the depth ne | eeded to do | ocumen | nt the indic | cator or co | onfirm the | e absence of in | dicators.) | | | |
| Profile Descri | | be to the depth ne | | | | | | | | | | |
| Profile Descri | | | | | | | | | | | | |
| Profile Descri | | etion, RM=Reduced Matrix | latrix, CS=Cov | vered/Coa | ated Sand (| Grains; Locat | | ore Lining, M=Matr | | | | |
| Profile Descri | ntration, D=Deple | etion, RM=Reduced M | latrix, CS=Cov | | | Grains; Locat | tion: PL=Po | ore Lining, M=Matr | | Texture | | Remarks |
| Profile Descri (Type: C=Concer | ntration, D=Deple | Matrix Color (Moist) 3/1 | latrix, CS=Cov | % | Color (N | Grains; Locat | tion: PL=Pe | ore Lining, M=Matr es Type | (x) | L | | Remarks |
| Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 | ntration, D=Deple | Matrix Color (Moist) | latrix, CS=Cov | % | ated Sand (| Grains; Locat | tion: PL=Pe | ore Lining, M=Matr | (x) | Texture L FS | | Remarks |
| Profile Descri (Type: C=Concer Depth (In.) | ntration, D=Deple | Matrix Color (Moist) 3/1 | latrix, CS=Cov | % | Color (N | Grains; Locat | Mottle | ore Lining, M=Matr es Type | Location | L | sapric loam | Remarks |
| Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 | Hue_10YR Hue_10YR | Matrix Color (Moist) 3/1 4/1 | latrix, CS=Cov | % 100 60 Hu | Color (N | Grains; Locat | Mottle | ore Lining, M=Matr es Type | Location | L FS | sapric loam | Remarks |
| Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 | Hue_10YR Hue_10YR | Matrix Color (Moist) 3/1 4/1 | latrix, CS=Cov | % 100 60 Hu | Color (N | Grains; Locat | Mottle | ore Lining, M=Matr es Type | Location | L FS | sapric loam | Remarks |
| Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 | Hue_10YR Hue_10YR | Matrix Color (Moist) 3/1 4/1 | latrix, CS=Cov | % 100 60 Hu | Color (N | Grains; Locat | Mottle | ore Lining, M=Matr es Type | Location | L FS | sapric loam | Remarks |
| Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-24 | Hue_10YR Hue_10YR | Matrix Color (Moist) 3/1 4/1 2.5/N | latrix, CS=Cov | % 100 60 Hu | Color (Nue_10YR | Moist) 4/6 | Mottle % | ore Lining, M=Matr es Type | Location | L FS | sapric Ioam | Remarks |
| Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-24 | Hue_10YR Hue_10YR Gley1 | Matrix Color (Moist) 3/1 4/1 2.5/N | latrix, CS=Cov | % 100 60 Hu 100 if indicat | Color (Nue_10YR | Moist) 4/6 oot presen | Mottle % | ore Lining, M=Matr es Type C | Location M | L FS MMI | for Problemati | |
| Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-24 | Hue_10YR Hue_10YR Gley1 ic Soil Field A1- Histosol | Matrix Color (Moist) 3/1 4/1 2.5/N Indicators (Ch | latrix, CS=Cov | % 100 60 Hu 100 if indicat | Color (Nue_10YR | Moist) 4/6 ot presen | Mottle % | ore Lining, M=Matr es Type C | Location M | L FS MMI Indicators 1 A9 - 1 cm M | for Problemati | c Soils ¹ |
| Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-24 NRCS Hydr | Hue_10YR Hue_10YR Gley1 Fic Soil Field A1- Histosol A2 - Histic Ep | Matrix Color (Moist) 3/1 4/1 2.5/N Indicators (chains in the color i | latrix, CS=Cov | % 100 60 Hu 100 if indicat \$5 \$6 | Color (Nue_10YR ue_10YR attors are n - Sandy Re - Stripped | Moist) 4/6 oot presen | Mottle % 40 tt): | ore Lining, M=Matr es Type C | Location | L FS MMI Indicators 1 A9 - 1 cm M A16 - Coast | for Problemati luck (LRR I, J) Prairie Redox | c Soils ¹ (LRR F, G, H) |
| Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-24 NRCS Hydr | Hue_10YR Hue_10YR Gley1 ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His | Matrix Color (Moist) 3/1 4/1 2.5/N Indicators (chippedon ditic | latrix, CS=Cov | % 100 60 Hu 100 if indicat | Color (Nue_10YR ue_10YR ators are n i - Sandy Re i - Stripped - Loamy M | Moist) 4/6 ot presen edox Matrix ucky Minera | Mottle % 40 40 tt): | ore Lining, M=Matr es Type C | Location | Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S6 | for Problemati luck (LRR I, J) Prairie Redox urface (LRR G) | <u>c Soils¹</u> (LRR F, G, H) |
| Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-24 NRCS Hydr | Hue_10YR Hue_10YR Gley1 ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger | Matrix Color (Moist) 3/1 4/1 2.5/N Indicators (chippedon | latrix, CS=Cov | % 100 60 Hu 100 if indicat \$5 \$6 F1 F2 F2 F2 F2 F2 F2 F2 | Color (Nue_10YR tors are n - Sandy Re - Stripped - Loamy M - Loamy M | Moist) 4/6 ot presen edox Matrix lucky Mineraleyed Matrix | Mottle % 40 40 tt): | ore Lining, M=Matr es Type C | Location M | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F | for Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi | c Soils ¹ (LRR F, G, H) |
| Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-24 NRCS Hydr | Hue_10YR Hue_10YR Gley1 ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroget A5 - Stratified | Matrix Color (Moist) 3/1 4/1 2.5/N Indicators (chippedon ditic | latrix, CS=Cov | % 100 60 Hu 100 | Color (Nue_10YR ue_10YR ators are n i - Sandy Re i - Stripped - Loamy M | Moist) 4/6 ot presen edox Matrix leyed Matrix Matrix Matrix | Mottle Mottle 40 41 tt): | ore Lining, M=Matr es Type C | Location M | Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc | for Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi | <u>c Soils¹</u> (LRR F, G, H) |
| Profile Descri (Type: C=Concer | Hue_10YR Hue_10YR Gley1 A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Strattied A9 - 1 cm Mur A11 - Deplete | Matrix Color (Moist) 3/1 4/1 2.5/N Indicators (chaigedon tic a Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface | latrix, CS=Cov | % 100 60 Hu 100 | Color (Nue_10YR attors are n - Sandy Re - Stripped - Loamy M - Loamy G - Depleted - Redox Da - Depleted | Moist) 4/6 4/6 oot presen edox Matrix lucky Minera leyed Matrix Matrix Matrix Ark Surface Dark Surface | Mottle % 40 41 | ore Lining, M=Matr es Type C | Location M | Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Red uc TF2 - Red F TF12 - Very | for Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi yed Vertic 'arrent Material Shallow Dark S | c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface |
| Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-24 NRCS Hydr | Hue_10YR Hue_10YR Gley1 ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D | Matrix Color (Moist) 3/1 4/1 2.5/N Indicators (chairman and a surface | latrix, CS=Cov | % 100 60 Hu 100 if indicat \$5 \$6 \$1 \$7 \$1 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 | Color (Nue_10YR tors are n S - Sandy Re - Stripped Loamy M - Loamy M - Loamy G - Pepleted - Redox De - Depleted | Moist) 4/6 ot presen edox Matrix uucky Mineraleyed Matrix Matrix ark Surface Dark Surfae porressions | Mottle Mottle 40 40 tt): | ore Lining, M=Matrices Type C | Location | Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Red uc TF2 - Red F TF12 - Very | for Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Palains Depressi Pad Vertic Parent Material | c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface |
| Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 18-24 NRCS Hydr | Hue_10YR Hue_10YR Gley1 ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D S1 - Sandy M | Matrix Color (Moist) 3/1 4/1 2.5/N Indicators (chained in the color | latrix, CS=Cov | % 100 60 Hu 100 if indicat \$5 \$6 \$1 \$7 \$1 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 | Color (Nue_10YR tors are n S - Sandy Re - Stripped Loamy M - Loamy M - Loamy G - Pepleted - Redox De - Depleted | Moist) 4/6 ot presen edox Matrix uucky Mineraleyed Matrix Matrix ark Surface Dark Surfae porressions | Mottle Mottle 40 40 tt): | ore Lining, M=Matr es Type C | Location | Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Red uc TF2 - Red F TF12 - Very | for Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi yed Vertic 'arrent Material Shallow Dark S | c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface |
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| Profile Descri (Type: C=Concer | Hue_10YR Hue_10YR Gley1 A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M | Matrix Color (Moist) 3/1 4/1 2.5/N Indicators (chained in the color in Sulfide Layers (LRR FGH) delow Dark Surface ark Surface ark Surface Lucky Mineral lucky Peat or Peat (LR) Peat or Peat (LR) Peat or Peat (LR) Peat or Peat (LR) | latrix, CS=Cov | % 100 60 Hu 100 if indicat \$5 \$6 \$1 \$7 \$1 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 | Color (Nue_10YR tors are n S - Sandy Re - Stripped Loamy M - Loamy M - Loamy G - Pepleted - Redox De - Depleted | Moist) 4/6 ot presen edox Matrix uucky Mineraleyed Matrix Matrix ark Surface Dark Surfae porressions | Mottle Mottle 40 40 tt): | ore Lining, M=Matrices Type C | Location | Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark SI F18 - Reduc TF2 - Red F TF12 - Very Other (Expla | for Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi bed Vertic Parent Material Shallow Dark Sain in Remarks) | c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface |
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WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | L3R | | | | Sample Point: u-150n40w24-g1 |
|-------------------|--|-------------|---------------|------------|--|
| | | | | | |
| VEGETATION | | non-native | species.) | | |
| Tree Stratum (| Plot size: 30 ft. radius) | | | | |
| | Species Name | % Cover | Dominant | Ind.Status | Dominance Test Worksheet |
| 1. | | | | | |
| 2. | | | | | Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) |
| 3. | | | | | |
| 4. | | | | | Total Number of Dominant Species Across All Strata:(B) |
| 5. | | | | | |
| 6. | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 7. | | | | | |
| 8. | | | | | Prevalence Index Worksheet |
| 9. | | | | | Total % Cover of: Multiply by: |
| 10. | | | | | OBL spp. 0 x 1 = 0 |
| | Total Cover = | 0 | | | FACW spp. 10 |
| | 10101 00101 | | _ | | FAC spp. 2 x 3 = 6 |
| Capling/Chrub (| Stratum (Plot size: 15 ft. radius) | | | | |
| 1. | Stratum (Flot size. 15 it. radius) | | | | ··· ——— |
| 2. | | | | | UPL spp. <u>51</u> x 5 = <u>255</u> |
| | | | | | Total OF (A) 400 (D) |
| 3. | | | | | Total 95 (A) 409 (B) |
| 4. | | | | | B |
| 5. | | | | | Prevalence Index = B/A = 4.305 |
| 6. | _ | | | | |
| 7. | | | | | |
| 8. | | | | | Hydrophytic Vegetation Indicators: |
| 9. | | | | | Rapid Test for Hydrophytic Vegetation |
| 10. | | | | | Dominance Test is > 50% |
| | Total Cover = | 0 | | | Prevalence Index is ≤ 3.0 * |
| | _ | | | | Morphological Adaptations (Explain) * |
| Herb Stratum (F | Plot size: 5 ft. radius) | | | | Problem Hydrophytic Vegetation (Explain) * |
| 1. | Bromus inermis | 50 | Υ | UPL | |
| 2. | Phleum pratense | 20 | Υ | FACU | * Indicators of hydric soil and wetland hydrology must be |
| 3. | Spartina pectinata | 10 | N | FACW | present, unless disturbed or problematic. |
| 4. | Solidago canadensis | 10 | N | FACU | Definitions of Vegetation Strata: |
| 5. | Galium boreale | 1 | N | FACU | Definitions of Vogetation official |
| 6 | Fragaria virginiana | 1 | N | FACU | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast |
| 7. | Zizia aurea | 1 | N | FAC | height (DBH), regardless of height. |
| 8. | | | N | | |
| 9. | Pycnanthemum virginianum | 1 | N | FAC | Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. |
| | Carduus acanthoides | 1 | IN | NI | Sapinig/Siliub = Woody planto loss than one. BBH, regulatess of height. |
| 10. | | | | | |
| 11. | | | | | All back assess (and supplied a second supplied as a second secon |
| 12. | | | | | Herb - All herbaceous (non-woody) plants, regardless of size. |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | Woody Vines - All woody vines, regardless of height. |
| | Total Cover = | 95 | _ | | |
| | <u></u> | | | | |
| Woody Vine Str | ratum (Plot size: 30 ft. radius) | | | | |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | Hydrophytic Vegetation Present? N |
| 5. | | | | | |
| 4. | | | | | |
| | Total Cover = | 0 | | _ | |
| Remarks: | | | h nrairie c | ordarass | and Canada goldenrod also prevalent. The topography of the area is quite flat, so |
| Remarks. | the wetland boundary is somewhat gradual. | uniouny wit | iii prairie c | orugrass | and Canada goldenioù also prevalent. The topography of the area is quite flat, so |
| | the wettarid boundary is somewhat gradual. | | | | |
| | | | | | |
| Additional R | Remarks: | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |