WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | Date: 08/02/14 |
|---|--|---|--|--|---|---------------|-------------------|---|---|--|
| Applicant: | | Enbridge | | | | | | | | County: Marshall |
| Investigators | | NTT/KRG | | | Subregio | • | or LRR): | MLRA 56 | | State: <u>MN</u> |
| Soil Unit: Landform: | I15A Depression | | | | cal Relief: | | I Classification: | PEMbg | | Sample Dainty W-155p/5w7-c1 |
| Slope (%): | Depression 3 - 7% | | titude: 48.2 | | Longitude: | | 595 | Datum: | | Sample Point: w-155n45w7-c1 |
| | | nditions on the site ty | | | <u> </u> | | | ☑ Yes | □ No | Section: |
| Are Vegetation | | , or Hydrology 🗅 | | | | 1 | e normal circun | | esent? | Township: |
| Are Vegetation | | □, or Hydrology □a | | | | | ⊠ Yes | □ No | | Range: Dir: |
| SUMMARY C | | | | | | | | | | |
| Hydrophytic | - | | Yes | | _ | | | | Is Present? | |
| Wetland Hyd | | | Yes | the odge of a | n ovicting | ninolino | corridor and d | | | nt Within A Wetland? Yes |
| Remarks: The wetland is a shallow marsh located on the edge of an existing pipeline corridor and dominated by Typha angustifolia. | | | | | | | | | | |
| HYDROLOGY | | | | | | | | | | |
| | | icators (Check all the | at annly: M | inimum of on | o primary | or two s | econdary requi | rod). | | |
| Primary | ••• | icators (Check all tha | at apply, ivi | | epinary | | econdary requi | ieu). | Secondary: | |
| <u>.</u> | A1 - Surface \ | | | | B11 - Salt | | | | | B6 - Surface Soil Cracks |
| | A2 - High Wat | | | | B13 - Aqua | | | | | B8 - Sparsely Vegetated Concave Surface |
| | A3 - Saturatio B1 - Water Ma | | | | C1 - Hydro C2 - Dry Se | | | | | B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled) |
| | B2 - Sedimen | t Deposits | | | C3 - Oxidiz | ed Rhizos | spheres on Living | Roots (not till | € □ | C8 - Crayfish Burrows |
| | B3 - Drift Dep | | | | C4 - Prese C7 - Thin M | | | | | C9 - Saturation Visible on Aerial Imagery |
| | B4 - Algal Mat B5 - Iron Dep | | | | Other (Exp | | ace | | ⊻ ✓ | D2 - Geomorphic Position D5 - FAC-Neutral Test |
| | B7 - Inundatio | n Visible on Aerial Image | ery | _ | ee. (=/.p | | | | | D7 - Frost-Heaved Hummocks (LRR F) |
| | B9 - Water-St | ained Leaves | | | | | | | | |
| Field Observ | votiona | | | | | | | | | |
| Surface Wat | | Voc 🗖 | Dooth | . 1 | (in) | | | | | |
| Water Table | | Yes ☑ Yes ☑ | Depth Depth | | _ (in.) _ (in.) | | | Wetland H | lydrology l | Present? Y |
| Saturation Pr | | Yes 🗹 | Depth | | - (in.) (in.) | | | | | |
| | | tream dauge monitori | · · · | | - | ections) | if available: | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The wetland has standing water throughout the majority of it, with all areas saturated at the surface. | | | | | | | | | | |
| | | | | | , | | | | | |
| SOILS | | | | | | | | | | |
| | | be to the depth neede etion, RM=Reduced Matrix | | | | | | | | |
| | | | ., 00-007010 | a, coalea cana s | | | | | | |
| | | Matrix | | | | Mottle | | | | |
| | | IVIALITX | | | | WOU | es | | | |
| Depth (In.) | | Color (Moist) | % | Color (| Moist) | % | es Type | Location | Texture | Remarks |
| Depth (In.) 0-3 | Hue_10YR | Color (Moist) 2/1 | % 100 | · · · · · · · · · · · · · · · · · · · | Moist) | - | | Location | Texture FSL | Remarks |
| 0-3 3-8 | Hue_10YR | Color (Moist) 2/1 2/2 | 100 95 | Hue_7.5YR | , | - | | Location M | | Remarks |
| 0-3 | | Color (Moist) 2/1 2/2 | 100 | Hue_7.5YR | , | % | Туре | | | Remarks |
| 0-3 3-8 | Hue_10YR | Color (Moist) 2/1 2/2 | 100 95 | Hue_7.5YR | , | % | Туре | | | Remarks |
| 0-3 3-8 | Hue_10YR | Color (Moist) 2/1 2/2 | 100 95 | Hue_7.5YR | , | % | Туре | | | Remarks |
| 0-3 3-8 8-18 | Hue_10YR Hue_10YR | Color (Moist) 2/1 2/2 4/2 | 100 95 100 | Hue_7.5YR | 6/4 | % 5 | Type C | | | Remarks |
| 0-3 3-8 8-18 | Hue_10YR | Color (Moist) 2/1 2/2 4/2 | 100 95 100 | Hue_7.5YR | 6/4 | % 5 | Туре | | FSL S S | |
| 0-3 3-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR | Color (Moist) 2/1 2/2 4/2 | 100 95 100 | Hue_7.5YR | 6/4 not presen | % 5 | Type C | M | FSL S S Indicators f | Enter Problematic Soils ¹ |
| 0-3 3-8 8-18 | Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep | Color (Moist) 2/1 2/2 4/2 Indicators (check | 100 95 100 k here if in | Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped | 6/4 not presen edox Matrix | % 5 t): | Type C | M | FSL S S Indicators f A9 - 1 cm M A16 - Coast | f <mark>or Problematic Soils¹</mark> luck (LRR I, J) : Prairie Redox (LRR F, G, H) |
| 0-3 3-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His | Color (Moist) 2/1 2/2 4/2 Indicators (check | 100 95 100 k here if in | Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N | 6/4 not presen edox Matrix Jucky Miner | % 5 t): | Type C | M | FSL S S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su | f <mark>or Problematic Soils¹</mark> luck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) |
| 0-3 3-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger | Color (Moist) 2/1 2/2 4/2 Indicators (check ipedon stic n Sulfide | 100 95 100 k here if in | Hue_7.5YR Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G | edox Matrix Mucky Miner | % 5 t): | Type C | M | FSL S S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F | For Problematic Soils ¹ Nuck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) |
| 0-3 3-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified | Color (Moist) 2/1 2/2 4/2 Indicators (check | 100 95 100 k here if ind □ □ | Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N | 6/4 6/4 not presen edox Matrix Mucky Miner Gleyed Matri Matrix | % 5 t): | Type C | M | FSL S S <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc | For Problematic Soils ¹ Nuck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) |
| 0-3 3-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mut A11 - Deplete | Color (Moist) 2/1 2/2 4/2 Indicators (check ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface | 100 95 100 k here if ind □ □ | Hue_7.5YR Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted | edox Matrix Mucky Miner Bleyed Matrii Matrix Vark Surface | % 5 t): | Type C | M | FSL S S <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very | for Problematic Soils ¹ Iuck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material ' Shallow Dark Surface |
| 0-3 3-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D | Color (Moist) 2/1 2/2 4/2 Indicators (check ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface | 100 95 100 k here if ind □ □ □ | Hue_7.5YR Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D | edox Matrix Mucky Minera Bleyed Matri Matrix Matrix Dark Surface Dark Surface | % 5 t): | C C | M | FSL S S <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very | For Problematic Soils ¹ Iuck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material |
| 0-3 3-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mut A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M | Color (Moist) 2/1 2/2 4/2 Indicators (check ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR | 100 95 100 k here if ind □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | Hue_7.5YR Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D | edox Matrix Mucky Minera Bleyed Matri Matrix Matrix Dark Surface Dark Surface | % 5 t): | Type C | M | FSL S S <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very | for Problematic Soils ¹ Iuck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material ' Shallow Dark Surface |
| 0-3 3-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Muc | Color (Moist) 2/1 2/2 4/2 Indicators (check ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR F) | 100 95 100 k here if ind □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | Hue_7.5YR Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D | edox Matrix Mucky Minera Bleyed Matri Matrix Matrix Dark Surface Dark Surface | % 5 t): | C C | M | FSL S S <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla | for Problematic Soils ¹ Nuck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material 'Shallow Dark Surface ain in Remarks) |
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| 0-3 3-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR Al- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Muc S3 - 5 cm Muc S4 - Sandy G | Color (Moist) 2/1 2/2 4/2 Indicators (check ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR F) | 100 95 100 k here if ind □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | Hue_7.5YR Hue_7.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl | 6/4 6/4 not presen edox Matrix Mucky Miner Gleyed Matri Matrix bark Surface Dark Surface Dark Surface Dark Surface | % 5 t): | Type C | M M □ □ □ □ □ □ □ □ □ □ □ □ □ | FSL S S <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla | for Problematic Soils ¹ Nuck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material 'Shallow Dark Surface ain in Remarks) |
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WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | : L3R | | | | Sample Point: w-155n45w7-c1 | | | |
|---------------------|---|----------------|-----------------|------------|--|--|--|--|
| | | | | | | | | |
| VEGETATIO | | e non-native | species.) | | | | | |
| Tree Stratum | (Plot size: 30 ft. radius) | | | | | | | |
| | <u>Species Name</u> | <u>% Cover</u> | <u>Dominant</u> | Ind.Status | Dominance Test Worksheet | | | |
| 1. | | | | | | | | |
| 2. | | | | | Number of Dominant Species that are OBL, FACW, or FAC: <u>3</u> (A) | | | |
| 3. | | | | | | | | |
| 4. | | | | | Total Number of Dominant Species Across All Strata: 3 (B) | | | |
| 5. | | | | | | | | |
| 6. | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) | | | |
| 7. | | | | | | | | |
| 8. | | | | | Prevalence Index Worksheet | | | |
| 9. | | | | | Total % Cover of: Multiply by: | | | |
| 10. | | | | | OBL spp. <u>85</u> X 1 = <u>85</u> | | | |
| | Total Cover = | 0 | | | FACW spp. 40 x 2 = 80 | | | |
| | | | | | FAC spp. 0 $x 3 = 0$ | | | |
| Sapling/Shrub | Stratum (Plot size: 15 ft. radius) | | | | FACW spp. 40 x $2 =$ 80 FAC spp. 0 x $3 =$ 0 FACU spp. 0 x $4 =$ 0 | | | |
| 1. | Salix interior | 20 | Y | FACW | UPL spp. 0 $x 5 = 0$ | | | |
| 2. | Salix discolor | 5 | Y | FACW | | | | |
| 3. | | | | | Total 125 (A) 165 (B) | | | |
| 4. | | | | | | | | |
| 5. | | | | | Prevalence Index = B/A = 1.320 | | | |
| 6. | - | | | | | | | |
| 7. | - | | | | | | | |
| 8. | | | | | Hydrophytic Vegetation Indicators: | | | |
| 9. | | | | | Rapid Test for Hydrophytic Vegetation | | | |
| 10. | - | | | | X Dominance Test is > 50% | | | |
| 10. | Total Cover = | 25 | | | $\frac{1}{X} \qquad \text{Prevalence Index is } \leq 3.0 \text{ *}$ | | | |
| | | 20 | | | | | | |
| | | | | | Morphological Adaptations (Explain) * | | | |
| | (Plot size: 5 ft. radius) | 70 | V | | Problem Hydrophytic Vegetation (Explain) * | | | |
| 1. | Typha angustifolia | 70 | | OBL | | | | |
| 2. | Carex bebbii | 15 | <u>N</u> | OBL | * Indicators of hydric soil and wetland hydrology must be | | | |
| 3. | Phalaris arundinacea | 10 | <u>N</u> | FACW | present, unless disturbed or problematic. | | | |
| 4. | Calamagrostis canadensis | 5 | N | FACW | Definitions of Vegetation Strata: | | | |
| 5. | | | | | | | | |
| 6 | | | | | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast | | | |
| 7. | | | | | height (DBH), regardless of height. | | | |
| 8. | | | | | | | | |
| 9. | | | | | Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. | | | |
| 10. | | | | | | | | |
| 11. | | | | | | | | |
| 12. | | | | | Herb - All herbaceous (non-woody) plants, regardless of size. | | | |
| 13. | | | | | | | | |
| 14. | | | | | | | | |
| 15. | | | | | Woody Vines - All woody vines, regardless of height. | | | |
| | Total Cover = | 100 | | | | | | |
| | | | | | | | | |
| Woody Vine St | tratum (Plot size: 30 ft. radius) | | | | | | | |
| 1 | | | | | | | | |
| 2. | | | | | | | | |
| 3. | | | | | Hydrophytic Vegetation Present? Y | | | |
| 5. | 1 | | | | | | | |
| 4. | | | | | | | | |
| | Total Cover = | 0 | | | | | | |
| Remarks: | The wetland is dominated by Typha angustife | | na maiority | of the we | tland ground covered with moss | | | |
| itemarks. | The wettand is dominated by Typha anguStill | Jia, witti ti | ie majonty | | alana yiouna coverea with moss. | | | |
| | | | | | | | | |
| | | | | | | | | |
| Additional Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| I | | | | | | | | |