WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | Date: County: | 10/03/14 |
|---|--|--|---|--|---|--|---|------------------------|--|---|--|
| Applicant: Enbridge | | | | Subregion (MLRA or LRR): MLRA 56 | | | | | | | Kittson |
| Investigators | | | | | | | | State: | MN | | |
| Soil Unit: Landform: | I140A Talf | | | | cal Daliaf | | I Classification: | | | Sampla Point | u_159p48w29_b1 |
| Landform: Talf Local Relief: LL Sample Point: u-159n48w29-b1 Slope (%): 0 - 2% Latitude: 48.5717745 Longitude: -96.8891723 Datum: | | | | | | | | | | | |
| | | nditions on the site | | | | | | | □ No | Section: | |
| Are Vegetation | | C or Hydrology | | | xi i (ii iio, ox | | e normal circun | | | Township: | |
| Are Vegetatio | on 🛛 Soil | □ or Hydrology | | | | | ⊡ Yes | □No | | Range: | Dir: |
| SUMMARY C | | | | | | | | | | - 5- | |
| Hydrophytic Vegetation Present? | | | | No | | | | Hydric Soil | | <mark>? No</mark> nt Within A W | etland? No |
| Remarks: | The upland | sample point is lo | | CRP field a | diacent to | a roadsi | ide ditch wetlar | d Vegetatio | on is domin | ated by creer | bing wild rve |
| . tomanio | ine aplana | | | , er ar heid, e | aja 00.11 10 | | | a. rogotati | | | |
| HYDROLOG | Y | | | | | | | | | | |
| | | icators (Check all | that apply: M | linimum of on | e nrimarv | or two s | econdary requi | red). | | | |
| Primary: | | cators (oneck an | that apply, iv | | c primary | 01 100 3 | contraity requi | icu). | Secondary | : | |
| | A1 - Surface | | | | B11 - Salt | | | | Ó | B6 - Surface S | |
| | A2 - High Wa | | | | B13 - Aqua | | | | | | Vegetated Concave Surface |
| | A3 - Saturatio B1 - Water Ma | | | | C1 - Hydro | | | | | | e Patterns Rhizospheres on Living Roots (tilled) |
| | B2 - Sedimen | | | □ C2 - Dry Season Water Table □ □ C3 - Oxidized Rhizospheres on Living Roots (not till | | | | | | | Burrows |
| | B3 - Drift Dep | | | | C4 - Prese | ence of Re | educed Iron | | | | Nisible on Aerial Imagery |
| | B4 - Algal Ma | | | | C7 - Thin I | | ace | | | D2 - Geomorp | |
| | B5 - Iron Dep | osits in Visible on Aerial Im | 2000/ | | Other (Exp | blain) | | | | D5 - FAC-Neu | tral Test aved Hummocks (LRR F) |
| | B9 - Water-St | | lagery | | | | | | | D7 - FIOSI-Rea | aved Hummocks (LKK F) |
| _ | | | | | | | | | | | |
| Field Observ | vations: | | | | | | | | | | |
| Surface Wate | er Present? | Yes 🛛 | Dept | n: | (in.) | | | | | | |
| Water Table | | Yes 🔲 | | ו: | | | | Wetland H | lydrology | Present? | N |
| Saturation Pr | | Yes 🛛 | Dept | | (in.) | | | | | | |
| Describe Reco | | | | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No primary or secondary indicators of wetland hydrology were observed. | | | | | | | | | | | |
| | | | - | | | | , if available: | | | | |
| | | | - | | | | , if available: | | | | |
| | | | - | | | | , if available: | | | | |
| Remarks: SOILS Profile Descri | No primary | or secondary indic | eded to docu | and hydrology ment the indi | were obs | served. | e absence of ir | | | | |
| Remarks: SOILS Profile Descri | No primary | or secondary indic | eded to docu | and hydrology ment the indi | were obs | served. | e absence of ir | | | | |
| Remarks: SOILS Profile Descri | No primary | or secondary indic be to the depth ne etion, RM=Reduced Ma | eded to docu | and hydrology ment the indi | were obs | onfirm th | e absence of ir ore Lining, M=Matr | | | | |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary | or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix | eded to docu | ment the indi | cator or co Grains; Loca | onfirm th tition: PL=P | e absence of ir ore Lining, M=Matr | ix) | | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) | No primary | or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) | eded to docu atrix, CS=Cover | ment the indi | cator or co Grains; Loca | onfirm th | e absence of ir ore Lining, M=Matr | | Texture | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 | No primary ption (Descrintration, D=Depl Hue_10YR | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 | eeded to docu atrix, CS=Coverd % 100 | ment the indi | were obs | onfirm th tition: PL=P Mottle % | e absence of ir ore Lining, M=Matr es Type | Location | С | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) | No primary | or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) | eded to docu atrix, CS=Cover | ment the indi | cator or co Grains; Loca | onfirm th tition: PL=P | e absence of ir ore Lining, M=Matr | ix) | | Mixed matrix. | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 | No primary ption (Descrintration, D=Depl Hue_10YR | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 | eeded to docu atrix, CS=Coverd % 100 | ment the indi | were obs | onfirm th tition: PL=P Mottle % | e absence of ir ore Lining, M=Matr es Type | Location | С | Mixed matrix. | Remarks |
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| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 | No primary ption (Descrintration, D=Depl Hue_10YR | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 | eeded to docu atrix, CS=Coverd % 100 | ment the indi | were obs | onfirm th tition: PL=P Mottle % | e absence of ir ore Lining, M=Matr es Type | Location | С | Mixed matrix. | Remarks |
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| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 | No primary ption (Descri tration, D=Depl Hue_10YR Hue_5Y | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 | eded to docu atrix, CS=Cover % 100 98 | ment the indi ed/Coated Sand (Color (I Hue_10YR | were obs cator or cc Grains; Loca Moist) 2/1 | monfirm the second seco | e absence of ir ore Lining, M=Matr es Type | Location | C C | | |
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| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 | No primary ption (Descrintration, D=Depiner Hue_10YR Hue_5Y ic Soil Field | or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 Indicators (ch ipedon | eded to docu eded to docu atrix, CS=Cover % 100 98 eck here if ir | ment the indi d/Coated Sand of Color (I Hue_10YR dicators are r | were obs cator or co Grains; Loca Moist) 2/1 2/1 not preser edox Matrix | erved. | e absence of ir fore Lining, M=Matr es Type C | Location M | C C Indicators 1 A9 - 1 cm M A16 - Coast | for Problematie | <mark>: Soils¹</mark> :LRR F, G, H) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr | No primary ption (Descrintration, D=Deple Hue_10YR Hue_5Y Lic Soil Field A1- Histosol A2 - Histic Ep | or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 3/1 Indicators (ch ipedon etic | eded to docu atrix, CS=Cover % 100 98 eck here if ir | ment the indi d/Coated Sand of Color (I Hue_10YR dicators are r | were obs cator or cr Grains; Loca Vloist) 2/1 2/1 Not preser edox Matrix lucky Miner | in the second se | e absence of ir fore Lining, M=Matr es Type C | Location M | C C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S | for Problematii Muck (LRR I, J) I Prairie Redox (urface (LRR G) | <mark>: Soils¹</mark> :LRR F, G, H) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr U | No primary ption (Descrintration, D=Depiner Hue_10YR Hue_5Y ic Soil Field A1- Histosol A2 - Histic Epiner A3 - Black His A4 - Hydroge A5 - Stratified | or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) | eded to docu eded to docu atrix, CS=Cover % 100 98 eck here if ir | ment the indi d/Coated Sand (Color (I Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F2 - Loamy M F2 - Loamy M F3 - Depleted | were obs cator or cr Grains; Loca Moist) 2/1 2/1 bot preser edox Matrix lucky Miner ieyed Matri | intion: PL=P Mottli 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | e absence of ir fore Lining, M=Matr es Type C | Location M | C C Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc | for Problematic Muck (LRR I, J) I Prairie Redox u urface (LRR G) Plains Depressio ced Vertic | 2 <u>Soils1</u> (LRR F, G, H) |
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| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0 | No primary ption (Descri tration, D=Depi Hue_10YR Hue_5Y Hue_5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu S3 - 5 cm Mu S4 - Sandy G | or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 | eded to docu atrix, CS=Cover % 100 98 eck here if ir E E E E E RR G, H) | dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D | were obs cator or cr Grains; Loca (Moist) 2/1 2/1 00t preser edox Matrix lucky Miner leyed Matri Matrix ark Surface pressions ains Depres | ace | e absence of ir tore Lining, M=Matr es Type C C F RA 72, 73 of LRF | ix) | C C A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expla | for Problematic fuck (LRR I, J) Intervie Redox urface (LRR G) Plains Depressio ced Vertic Parent Material Shallow Dark S ain in Remarks) | <mark>c Soils¹</mark> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0 | No primary ption (Descrintration, D=Depine Hue_10YR Hue_5Y Hue_5Y ic Soil Field A1- Histosol A2 - Histic Epine A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G r Type: | or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 | eded to docu eded to docu atrix, CS=Cover % 100 98 98 98 98 98 98 98 98 98 98 98 98 98 | ment the indi d/Coated Sand (Color (I Hue_10YR Hue_10YR Hue_10YR Glicators are r S5 - Sandy R S5 - Sandy R S6 - Stripped S6 - Stripped F3 - Depleted F8 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl | were obs cator or cr Grains; Loca Moist) 2/1 2/1 bot preser edox Matrix matrix ark Surface Dark Surface pressions ains Depres | in the second se | e absence of ir ore Lining, M=Matr es Type C C LRA 72, 73 of LRF Hydric So | ILocation M R H) | C C N A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High f F18 - Reduc TF2 - Red F TF12 - Very Other (Expla 'Indicators of I unless disturbe | for Problematic Muck (LRR I, J) t Prairie Redox i urface (LRR G) Plains Depressic ced Vertic Parent Material v Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic. | 2 Soils ¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr Restrictive Layer Restrictive Layer | No primary ption (Descrintration, D=Depletration, D=Depletrat | or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 | eded to docu atrix, CS=Cover % 100 98 eck here if ir ieck here if ir E E E RR G, H) R F) | ment the indi d/Coated Sand (Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F2 - Loamy M F2 - Loamy C F3 - Depleted F3 - Depleted F3 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl Depth: | were obs cator or cr Grains; Loca Moist) 2/1 2/1 bot preser edox Matrix matrix ark Surface Dark Surface pressions ains Depres | in the second se | e absence of ir ore Lining, M=Matr es Type C C LRA 72, 73 of LRF Hydric So | ILocation M R H) | C C N A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High f F18 - Reduc TF2 - Red F TF12 - Very Other (Expla 'Indicators of I unless disturbe | for Problematic Muck (LRR I, J) t Prairie Redox i urface (LRR G) Plains Depressic ced Vertic Parent Material v Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic. | <mark>c Soils¹</mark> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface |

WETLAND DETERMINATION DATA FORM

Great Plains Region

| Project/Site: | L3R | | | | Sample Point: u-159n48w29-b1 | | | | |
|---------------------|--|--------------|-------------|------------|---|--|--|--|--|
| | | | | | | | | | |
| VEGETATIO | | e non-native | e species.) | | | | | | |
| Tree Stratum (| Plot size: 30 ft. radius) Species Name | % Cover | Dominant | Ind.Status | Dominance Test Worksheet | | | | |
| 1. | | % Cover | Dominant | Ind.Status | | | | | |
| 2. | | | | | Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) | | | | |
| 3. | | | | | | | | | |
| 4. | <u> </u> | | | | Total Number of Dominant Species Across All Strata: 1 (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. | | | | | $\frac{1}{OBL \text{ spp.}} 0 \qquad \text{x 1} = 0$ | | | | |
| 10. | Total Cover = | 0 | | | FACW spp. 1 \times 2 = 2 | | | | |
| | | | _ | | FAC spp. 10 $x 3 = 30$ | | | | |
| Sanling/Shruh | Stratum (Plot size: 15 ft. radius) | | | | FACU spp. 70 x 4 = 280 | | | | |
| 1. | | | | | UPL spp. 30 $\times 5 = 150$ | | | | |
| 2. | J | | | | | | | | |
| 3. | J | | | | Total 111 (A) 462 (B) | | | | |
| 4. | J | | | | | | | | |
| 5. | J | | | | Prevalence Index = B/A = 4.162 | | | | |
| 6. | J | | | | | | | | |
| 7. | | | | | | | | | |
| 8. | | | | | Hydrophytic Vegetation Indicators: | | | | |
| 9. | | | | | Rapid Test for Hydrophytic Vegetation | | | | |
| 10. | | | | | Dominance Test is > 50% | | | | |
| 10. | Total Cover = | 0 | | | Prevalence Index is ≤ 3.0 * | | | | |
| | | | | | Morphological Adaptations (Explain) * | | | | |
| Herb Stratum (| Plot size: 5 ft. radius) | | | | Problem Hydrophytic Vegetation (Explain) * | | | | |
| 1. | Elymus repens | 60 | Y | FACU | | | | | |
| 2. | Grindelia squarrosa | 15 | N | UPL | * Indicators of hydric soil and wetland hydrology must be | | | | |
| 3. | Bromus inermis | 15 | N | UPL | present, unless disturbed or problematic. | | | | |
| 4. | Sonchus arvensis | 10 | N | FAC | Definitions of Vegetation Strata: | | | | |
| 5. | Symphyotrichum ericoides | 5 | N | FACU | | | | | |
| 6 | Artemisia biennis | 5 | Ν | FACU | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast | | | | |
| 7. | Symphyotrichum lanceolatum | 1 | N | FACW | 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 = | 111 | | | | | | | |
| | | | | | | | | | |
| Woody Vine St | ratum (Plot size: 30 ft. radius) | | | | | | | | |
| 1. | | | | | | | | | |
| 2. | | | | | | | | | |
| 3. | | | | | Hydrophytic Vegetation Present? N | | | | |
| 5. | | | | | | | | | |
| 4. | | | | _ | | | | | |
| _ | Total Cover = | | | | | | | | |
| Remarks: | The vegetation is dominated by creeping wile | d rye. | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Additional Remarks: | | | | | | | | | |
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