WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | Date: | 10/10/14 | | |
|---|--|--|---|--|---|---|---|------------------------------------|--|---|--|--|--|
| Applicant: Enbridge | | | | | | | | | | County: | Polk | | |
| Investigators: BJC/RAJ | | | | Subregion (MLRA or LRR): MLRA 56 | | | | | | State: | MN | | |
| Soil Unit: | 20B | | | | | | Classification: | PEMC | | | | | |
| Landform: | Dip | | | | cal Relief: | | 407 | Determ | | Sample Point: | u-149n39w2-b1 | | |
| Slope (%): | 0 - 2% | nditions on the site | Latitude: 47.75 | | Longitude: | | | Datum: | ⊡ No | 0 | | | |
| | | nditions on the site | | | II ? (If no, exp | | e normal circun | | | Section: | | | |
| Are Vegetation | on ĻSoli an ⊡Soli | G or Hydrology | gnificantly | | | Ale | Yes | | esent | Township: | Dir: | | |
| SUMMARY C | | | | Diematic | | | | | | Range: | DII. | | |
| | | | No | | | | | Hydric Soi | ls Present? | Ves | | | |
| 5 1 5 6 | | | | No | | | Hydric Soils Present? Is This Sampling Poin | | | | etland? No | | |
| Remarks: | The upland sa | mple point is located | l in an NWI-map | ped polygon that | at currently | does not n | neet wetland hydr | ology or vege | etation param | eters. The area | is a hayfield dominated by alfalfa and | | |
| | | Though a hydric soil | | | | | | | | | | | |
| HYDROLOG | Y | | | | | | | | | | | | |
| | | i cators (Check all | that apply: Mi | nimum of on | o primary | or two se | econdary requi | red). | | | | | |
| Primary: | | icators (Check all | i tilat apply, ivii | | ephinary | | econically requi | leu). | Secondary: | | | | |
| | A1 - Surface | Water | | | B11 - Salt | Crust | | | | B6 - Surface S | oil Cracks | | |
| | A2 - High Wa | | | | B13 - Aqua | | | | | | Vegetated Concave Surface | | |
| | A3 - Saturatio B1 - Water Ma | | | = , , , , , , , , , , , , , , , , , , , | | | | | | | B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled) | | |
| | B2 - Sedimen | | | | | | pheres on Living | Roots (not til | | | | | |
| | B3 - Drift Dep | osits | | | C4 - Prese | nce of Red | | C9 - Saturation | n Visible on Aerial Imagery | | | | |
| | B4 - Algal Ma | | | C7 - Thin Muck Surface | | | | | | | hic Position | | |
| | B5 - Iron Dep | osits In Visible on Aerial Im | agery | | Other (Exp | iain) | | | _ | D5 - FAC-Neu D7 - Frost-Hea | trai Test aved Hummocks (LRR F) | | |
| | B9 - Water-St | | lagery | | | | | | - | D7 - Host-Host | | | |
| | | | | | | | | | | | | | |
| Field Observ | vations: | | | | | | | | | | | | |
| Surface Wate | er Present? | Yes 🛛 | Depth: | | (in.) | | | Wotland H | lydrology | Procont? | Ν | | |
| Water Table | Present? | Yes 🛛 | Depth: | | (in.) | | | wellanur | iyurology | Fresentr | | | |
| Saturation Pr | resent? | Yes 🛛 | Depth | | (in.) | | | | | | | | |
| Describe Reco | orded Data (s | tream gauge, moni | itoring well, aer | ial photos, pre | evious insp | ections), | if available: | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The sample point is in a slight depression in a generally flat area; no other indicators of wetland hydrology were observed. | | | | | | | | | | | | | |
| Remarks: | I ne sample | point is in a slight | t depression in | a generally | flat area; ı | no other | indicators of w | etland hydro | ology were | observed. | | | |
| | The sample | point is in a slight | t depression in | a generally | flat area; ı | no other | indicators of w | etland hydro | ology were | observed. | | | |
| SOILS | | | | | | | | | ology were | observed. | | | |
| SOILS Profile Descri | ption (Descri | be to the depth ne | eded to docur | nent the indi | cator or co | onfirm the | e absence of ir | dicators.) | ology were | observed. | | | |
| SOILS Profile Descri | ption (Descri | | eded to docur | nent the indi | cator or co | onfirm the | e absence of ir | dicators.) | ology were | observed. | | | |
| SOILS Profile Descri | ption (Descri | be to the depth ne etion, RM=Reduced Ma | eded to docur | nent the indi | cator or co | onfirm the tion: PL=Pc | e absence of ir ore Lining, M=Matr | dicators.) | ology were | observed. | | | |
| SOILS Profile Descri (Type: C=Concer | ption (Descri | be to the depth ne etion, RM=Reduced Ma Matrix | eded to docur | ment the india d/Coated Sand (| cator or co Grains; Loca | onfirm the | e absence of ir ore Lining, M=Matr | dicators.) | Texture | observed. | Remarks | | |
| SOILS Profile Descri | ption (Descri | be to the depth ne etion, RM=Reduced Ma | eded to docur atrix, CS=Covered | nent the indi | cator or co Grains; Loca | onfirm the tion: PL=Po Mottle | e absence of ir ore Lining, M=Matr | idicators.) | | observed. | Remarks | | |
| SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 | ption (Descri tration, D=Depl Hue_10YR | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) | eeded to docur atrix, CS=Covered | nent the india 3/Coated Sand (Color (I | cator or co Grains; Loca | onfirm the tion: PL=Po Mottle | e absence of ir ore Lining, M=Matr | idicators.) | | observed. | Remarks | | |
| SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 | ption (Descri ntration, D=Depl Hue_10YR Hue_10YR | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 | eeded to docur atrix, CS=Covered % 100 | ment the india d/Coated Sand (| cator or co Grains; Loca Moist) | nfirm the tion: PL=Pc Mottle % | e absence of ir ore Lining, M=Matr es Type | ix) | Texture L | observed. | Remarks | | |
| SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 | ption (Descri tration, D=Depl Hue_10YR | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/2 | eeded to docur atrix, CS=Covered % 100 50 | nent the india 3/Coated Sand (Color (I | cator or co Grains; Loca Moist) | nfirm the tion: PL=Pc Mottle % | e absence of ir ore Lining, M=Matr es Type | ix) | Texture L SIL | | Remarks | | |
| SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 | ption (Descri ntration, D=Depl Hue_10YR Hue_10YR | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/2 | eeded to docur atrix, CS=Covered % 100 50 | nent the india 3/Coated Sand (Color (I | cator or co Grains; Loca Moist) | nfirm the tion: PL=Pc Mottle % | e absence of ir ore Lining, M=Matr es Type | ix) | Texture L SIL | | Remarks | | |
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| SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 12-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0 | ption (Description itration, D=Depli Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei A3 - Black His A4 - Hydrogei A3 - Black His A4 - Hydrogei A3 - Black His A4 - 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 | be to the depth ne etion, RM=Reduced Mi Matrix Color (Moist) 2/1 6/2 4/1 Indicators (ch ipedon ttic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRI eyed Matrix | eeded to docur atrix, CS=Covered % 100 50 46 | nent the indii //Coated Sand (Color (1 Hue_7.5YR //////////////////////////////////// | Cator or cc Grains; Local Moist) 5/8 5/8 oot presen edox Matrix lucky Minera lucky Minera lucky Minera ark Surface Dark Surface pressions ains Depress | Mottle Mottle % 4 4 t): ce sions (ML | e absence of ir pre Lining, M=Matr 25 Type C C E RA 72, 73 of LRF Hydric So | Idicators.) | Indicators of Figure 2 Constraints of Figure 2 Constra | for Problematic for Problematic for Problematic for Problematic for Problematic for Problematic for Problematic shallow Dark S ain in Remarks) hydrophytic vegetat 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-149n39w2-b1 |
|------------------------------|--|----------------|-----------|------------|--|
| VEOETATIO | | | | | |
| VEGETATION Tree Stratum (| N (Species identified in all uppercase an Plot size: 30 ft. radius) | e non-native s | species.) | | |
| | 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 Deminant Species Across All Strate: 2 (D) |
| <u>4.</u> 5. | | | | | Total Number of Dominant Species Across All Strata: 2 (B) |
| 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. 0 $x = 0$ |
| Sapling/Shrub 9 | Stratum (Plot size: 15 ft. radius) | | | | FAC spp. 0 x 3 = 0 FACU spp. 40 x 4 = 160 |
| 1. | | | | | UPL spp. 70 \times 5 = 350 |
| 2. | | | | | |
| 3. | | | | | Total <u>110 (</u> A) <u>510 (</u> B) |
| 4. | | | | | |
| 5. | | | | | Prevalence Index = B/A = 4.636 |
| 6. | | | | | |
| 7. | | | | | Hydrophytic Vogetation Indicators: |
| 9. | <u> </u> | | | | Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation |
| 10. | <u></u> | | | | Dominance Test is > 50% |
| - | Total Cover = | 0 | | | Prevalence Index is ≤ 3.0 * |
| | | | - | | Morphological Adaptations (Explain) * |
| Herb Stratum (I | Plot size: 5 ft. radius) | | | | Problem Hydrophytic Vegetation (Explain) * |
| 1. | Medicago sativa | 70 | Y | NI | |
| 2. | Dactylis glomerata | 40 | Y | FACU | * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| <u>3.</u> 4. | | | | | 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. |
| 12. | | | | | |
| 14. | | | | | |
| 15. | | | | | Woody Vines - All woody vines, regardless of height. |
| | Total Cover = | 110 | _ | | |
| | | | | | |
| | ratum (Plot size: 30 ft. radius) | | | | |
| 1. 2. | | | | _ | |
| <u>2.</u> 3. | | | | | Hydrophytic Vegetation Present? N |
| 5. | | | | - | |
| 4. | r | | | | |
| | Total Cover = | | | | |
| Remarks: | The sample point is dominated by alfalfa and | d orchardgra | ass. | | |
| | | | | | |
| Additional | Domarka. | | | | |
| Additional R | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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