WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | Date: 07/02/14 | |
|---|---|--|---|---|--|--|--|--|---|--|---|
| Applicant: Enbridge | | | | | . | | County: Kittson | | | | |
| Investigators: BCS/BEH | | | | Subregion (MLRA or LRR): MLRA 56 | | | | | | State: MN | |
| | | | | | | | Classification | : PEMA | | | 00.04 |
| Landform: Depression Local Relief: CL Sample Point: w-160n50w23-a1 Slope (%): 0 - 2% Latitude: 48.66893825 Longitude: -97.070202101 Datum: Datum: | | | | | | | | | | | |
| Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes INo Section: | | | | | | | | | | | |
| Are Vegetation | | or Hydrology | | ly disturbed? | | | e normal circur | | - | | |
| Are Vegetation | | □ or Hydrology | | oblematic? | | | ⊻ Yes | | coont: | Township: Range: Dir: | |
| SUMMARY C | | | | Oblematic : | | | | | | Range. Dir. | |
| Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes | | | | | | | | | | | |
| Wetland Hyd | | Yes | | | | Is This Sampling Point | | | | | |
| Remarks: | | | | ed depressio | n which wa | s planted | to sugar beet | s this sprinc | . Hvdric soi | and primary and secondar | |
| Remarks: The wetland is a farmed, seasonally-flooded depression which was planted to sugar beets this spring. Hydric soil and primary and secondary wetland hydrology indicators are present. The site is also located in a mapped NWI wetland. | | | | | | | | | | , | |
| HYDROLOG | Y | | | | | • | | | | | |
| | | i cators (Check all | that apply: I | Ainimum of c | no primary | or two or | ocondory roqui | irod): | | | |
| Primary: | | icators (Check all | triat apply, i | | ne primary | OF LWO SE | econdary requi | neu). | Secondary: | | |
| <u>r ninary</u> . | A1 - Surface | Vater | | | B11 - Salt | Crust | | | | B6 - Surface Soil Cracks | |
| 7 | A2 - High Wa | | | | B13 - Aqu | | | | | B8 - Sparsely Vegetated Conca | ave Surface |
| | A3 - Saturatio | | | - | C1 - Hydro | | | | | B10 - Drainage Patterns | Livian Deete (tilled) |
| | B1 - Water M B2 - Sedimen | | | | C2 - Dry S C3 - Oxidi | | | C3 - Oxidized Rhizospheres or C8 - Crayfish Burrows | LIVING ROOLS (LINED) | | |
| | B3 - Drift Dep | | | | C4 - Prese | | | | | C9 - Saturation Visible on Aeria | al Imagery |
| I | B4 - Algal Ma | | | | C7 - Thin I | | ace | | 1 | D2 - Geomorphic Position | |
| | B5 - Iron Dep | osits in Visible on Aerial Im | agen/ | L | Other (Exp | blain) | | | | D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks | |
| | B9 - Water-St | | lagery | | | | | | - | D7 - FIOSI-Heaved Hummocks | |
| | | | | | | | | | | | |
| Field Observ | vations: | | | | | | | | | | |
| Surface Wate | er Present? | Yes 🗹 | Dep | :h: 2 | (in.) | | | | | | |
| Water Table | | Yes 🗹 | Dep | | (in.) | | | Wetland F | lydrology | Present? Y | |
| Saturation Pr | resent? | Yes 🗹 | Dep | | (in.) | | | | | | |
| Describe Rec | orded Data (s | tream gauge, moni | itoring well a | arial photos r | | nections) | if available: | | | | |
| | | | | | | ,, | il available. | | | | |
| rtemarto. | Remarks: Two inches of standing water are present at the sample point. | | | | | | | | | | |
| SOULS | | | | | | | | | | | |
| SOILS | | | | | | | | | | | |
| Profile Descri | | be to the depth ne | | | | | | | | | |
| Profile Descri | | be to the depth ne etion, RM=Reduced Ma | | | | | | | | | |
| Profile Descri | | etion, RM=Reduced Ma | | | | ition: PL=P | ore Lining, M=Mat | | 1 | | |
| Profile Descri (Type: C=Concer | | etion, RM=Reduced Ma Matrix | atrix, CS=Cove | ed/Coated San | d Grains; Loca | ntion: PL=P Mottle | ore Lining, M=Mat | rix) | Touture | Damad | |
| Profile Descri (Type: C=Concer Depth (In.) | ntration, D=Depl | etion, RM=Reduced Ma Matrix Color (Moist) | atrix, CS=Cove | ed/Coated San | | ition: PL=P | ore Lining, M=Mat | | Texture | Remark | s |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 | Hue_2.5Y | Matrix Color (Moist) 2.5/1 | atrix, CS=Cove | ed/Coated San Color | d Grains; Loca | Mottle | ore Lining, M=Mat es Type | Location | С | Remark | S |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 | Hue_2.5Y | Matrix Color (Moist) 2.5/1 5/2 | atrix, CS=Cove | ed/Coated San Color | d Grains; Loca (Moist) R 5/6 | Mottle | ore Lining, M=Mat es Type C | Location M | C C | Remark | S |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 | Hue_2.5Y | Matrix Color (Moist) 2.5/1 | atrix, CS=Cove | Color Hue_10Y | (Moist) R 5/6 R 4/6 | Mottle % 7 1 | ore Lining, M=Mat es Type C C | Location M M | C C C | Remark | S |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 | Hue_2.5Y | Matrix Color (Moist) 2.5/1 5/2 | atrix, CS=Cove | ed/Coated San Color | (Moist) R 5/6 R 4/6 | Mottle | ore Lining, M=Mat es Type C | Location M | C C | Remark | S |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 | Hue_2.5Y | Matrix Color (Moist) 2.5/1 5/2 | atrix, CS=Cove | Color Hue_10Y | (Moist) R 5/6 R 4/6 | Mottle % 7 1 | ore Lining, M=Mat es Type C C | Location M M | C C C | Remark | S |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 6-21 | Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y | Matrix Matrix Color (Moist) 2.5/1 5/2 2.5/1 | atrix, CS=Cove % 10 7! | Color Color Hue_10Y Hue_7.5Y Hue_10Y | (Moist) R 5/6 R 4/6 R 6/1 | Mottle % 7 1 2 | ore Lining, M=Mat Es Type C C D | Location M M | C C C | Remark | S |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 6-21 | Hue_2.5Y | Matrix Matrix Color (Moist) 2.5/1 5/2 2.5/1 | atrix, CS=Cove % 10 7! | Color Hue_10Y | (Moist) R 5/6 R 4/6 R 6/1 | Mottle % 7 1 2 | ore Lining, M=Mat es Type C C | Location M M | C C C | | S |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 6-21 NRCS Hydr | Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y | Matrix Matrix Color (Moist) 2.5/1 5/2 2.5/1 | atrix, CS=Cove | ed/Coated San Color Hue_10Y Hue_7.5Y Hue_10Y | (Moist) (Moist) R 5/6 R 4/6 R 6/1 | Mottle % 7 1 2 | ore Lining, M=Mat Es Type C C D | Location M M M | C C C C Indicators 1 | or Problematic Soils ¹ | S |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 6-21 | Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol | Matrix Color (Moist) 2.5/1 5/2 2.5/1 Indicators (ch | atrix, CS=Cove % 10 75 11 neck here if i | ed/Coated San Color Color Hue_10Y Hue_7.5Y Hue_10Y ndicators are | (Moist) R 5/6 R 4/6 R 6/1 e not preser Redox | Mottle % 7 1 2 | ore Lining, M=Mat Es Type C C D | Location M M M | C C C C Indicators f A9 - 1 cm M | | S |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 6-21 NRCS Hydr | Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y | Matrix Color (Moist) 2.5/1 5/2 2.5/1 Indicators (ch | atrix, CS=Cove | ed/Coated San Color Color Hue_10Y Hue_7.5Y Hue_10Y Strippe S5 - Sandy S6 - Strippe F1 - Loamy | (Moist) R 5/6 R 4/6 R 6/1 e not preser Redox d Matrix Mucky Miner | Mottle % 7 1 2 | ore Lining, M=Mat Es Type C C D | Location M M M M | C C C C Indicators f A9 - 1 cm M A16 - Cost F | or Problematic Soils ¹ | S |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 0-21 NRCS Hydr | Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge | Matrix Color (Moist) 2.5/1 5/2 2.5/1 Indicators (ch ipedon ttic | atrix, CS=Cove | ed/Coated San Color Hue_10Y Hue_7.5Y Hue_7.5Y Hue_10Y S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy | (Moist) (Moist) R 5/6 R 4/6 R 6/1 enot preser Redox ed Matrix Mucky Mineu Gleyed Matr | Mottle % 7 1 2 | ore Lining, M=Mat Es Type C C D | Location M M M M | C C C C A9-1 cm M A16 - Cost F S7 - Dark S F16 - High F | or Problematic Soils ¹ uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outisde ML | |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 0-21 NRCS Hydr | Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified | etion, RM=Reduced Matrix Color (Moist) 2.5/1 5/2 2.5/1 Indicators (ch ipedon stic 1 Sulfide Layers (LRR F) | atrix, CS=Cove | Color Color Hue_10Y Hue_7.5Y Hue_10Y Hue_10Y S5 - Sandy S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplet | (Moist) R 5/6 R 4/6 R 6/1 e not preser Redox ed Matrix Mucky Mineu Gleyed Matrix | Mottle % 7 1 2 tt): | ore Lining, M=Mat Es Type C C D | Location M M M M | C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc | or Problematic Soils ¹ uck (LRR I, J) rairie Redox (LRR F, G, H) urface (LRR G) Pains Depressions (LRR H, outisde ML ed Vertic | |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 6-21 NRCS Hydr | Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu | etion, RM=Reduced Matrix Color (Moist) 2.5/1 5/2 2.5/1 Indicators (ch ipedon tic ipedon tic in Sulfide Layers (LRR F) ck (LRR FGH) | atrix, CS=Cove | Color Color Hue_10Y Hue_7.5Y Hue_10Y Hue_10Y Hue_10Y S5 - Sandy S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplet F6 - Redox | (Moist) R 5/6 R 4/6 R 6/1 e not preser Redox ed Matrix Mucky Miner Gleyed Matrix Dark Surface | Mottle % 7 1 2 tt): | ore Lining, M=Mat Es Type C C D | Location M M M | C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F | or Problematic Soils ¹ uck (LRR I, J) rairie Redox (LRR F, G, H) urface (LRR G) ¹ ains Depressions (LRR H, outisde ML ed Vertic arent Material | |
| Profile Descri (Type: C=Concer 0-6 6-21 6-21 0-21 NRCS Hydr | Hue 2.5Y Hue 2.5Y Hue 2.5Y Hue 2.5Y Hue 2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Histic Ep A3 - Black Hit A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D | etion, RM=Reduced Matrix Color (Moist) 2.5/1 5/2 2.5/1 Indicators (ch ipedon stic h Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface | e | ed/Coated Sam Color Color Hue_10Y Hue_7.5Y Hue_10Y Hue_10Y G6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplet F6 - Redox F7 - Deplet F8 - Redox | (Moist) (Moist) R 5/6 R 4/6 R 6/1 enot preser Redox d Matrix Mucky Mineu Gleyed Matrix Mucky Mineu Gleyed Matrix Dark Surface ed Dark Surface Depressions | Mottle Mottle % 7 1 2 where the second | ore Lining, M=Mat | Location M M M M | C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF12 - Very | or Problematic Soils ¹ uck (LRR I, J) rairie Redox (LRR F, G, H) urface (LRR G) Pains Depressions (LRR H, outisde ML ed Vertic | |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 0-21 NRCS Hydr | Hue_2.5Y Hue | etion, RM=Reduced Matrix Color (Moist) 2.5/1 5/2 2.5/1 Indicators (ch ipedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral | e | ed/Coated Sam Color Color Hue_10Y Hue_7.5Y Hue_10Y Hue_10Y G6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplet F6 - Redox F7 - Deplet F8 - Redox | (Moist) (Moist) R 5/6 R 4/6 R 6/1 enot preser Redox d Matrix Mucky Mineu Gleyed Matrix Mucky Mineu Gleyed Matrix Dark Surface ed Dark Surface Depressions | Mottle Mottle % 7 1 2 where the second | ore Lining, M=Mat Es Type C C D | Location M M M M | C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF12 - Very | or Problematic Soils ¹ uck (LRR I, J) rrairie Redox (LRR F, G, H) urface (LRR G) Vains Depressions (LRR H, outisde ML ed Vertic arent Material Shallow Dark Surface | |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 0-21 NRCS Hydr | Hue_2.5Y Statified A3 - Black His A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D Statified Statif | etion, RM=Reduced Matrix Color (Moist) 2.5/1 5/2 2.5/1 Indicators (ch ipedon tic an Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (L | e RR G, H) | ed/Coated Sam Color Color Hue_10Y Hue_7.5Y Hue_10Y Hue_10Y G6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplet F6 - Redox F7 - Deplet F8 - Redox | (Moist) (Moist) R 5/6 R 4/6 R 6/1 enot preser Redox d Matrix Mucky Mineu Gleyed Matrix Mucky Mineu Gleyed Matrix Dark Surface ed Dark Surface Depressions | Mottle Mottle % 7 1 2 where the second | ore Lining, M=Mat | Location M M M M | C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla | or Problematic Soils ¹ uck (LRR I, J) rrairie Redox (LRR F, G, H) urface (LRR G) 'ains Depressions (LRR H, outisde ML ed Vertic arent Material Shallow Dark Surface in in Remarks) | LRA 72, 73) |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 0-21 NRCS Hydr | Hue_2.5Y Statified A3 - Black His A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D Statified Statif | etion, RM=Reduced Matrix Color (Moist) 2.5/1 5/2 2.5/1 Indicators (ch ipedon tic 1 Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LR | e RR G, H) | ed/Coated Sam Color Color Hue_10Y Hue_7.5Y Hue_10Y Hue_10Y G6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplet F6 - Redox F7 - Deplet F8 - Redox | (Moist) (Moist) R 5/6 R 4/6 R 6/1 enot preser Redox d Matrix Mucky Mineu Gleyed Matrix Mucky Mineu Gleyed Matrix Dark Surface ed Dark Surface Depressions | Mottle Mottle % 7 1 2 where the second | ore Lining, M=Mat | Location M M M M | C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF2 - Red F TF2 - Very Other (Expla | or Problematic Soils ¹ uck (LRR I, J) rrairie Redox (LRR F, G, H) urface (LRR G) Vains Depressions (LRR H, outisde ML ed Vertic arent Material Shallow Dark Surface | LRA 72, 73) |
| Profile Descri (Type: C=Concer 0-6 6-21 6-21 6-21 0-21 0-21 0-21 0-21 0-21 0-21 0-21 0 | Hue_2.5Y Hue | etion, RM=Reduced Matrix Color (Moist) 2.5/1 5/2 2.5/1 Indicators (ch ipedon tic 1 Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LR | e RR G, H) | ed/Coated Sam Color Color Hue_10Y Hue_7.5Y Hue_10Y Hue_10Y G6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplet F6 - Redox F7 - Deplet F8 - Redox | (Moist) (Moist) R 5/6 R 4/6 R 6/1 enot preser Redox d Matrix Mucky Mineu Gleyed Matrix Mucky Mineu Gleyed Matrix Dark Surface ed Dark Surface Depressions | Mottle Mottle % 7 1 2 where the second | ore Lining, M=Mat | Location M M M M | C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF2 - Red F TF2 - Very Other (Expla | or Problematic Soils ¹ uck (LRR I, J) rairie Redox (LRR F, G, H) raface (LRR G) Plains Depressions (LRR H, outisde ML ed Vertic arent Material Shallow Dark Surface in in Remarks) ydrophytic vegetation and wetland hyc | LRA 72, 73) |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 6-21 0-21 0-21 0-21 0-21 0-21 0-21 0-21 0 | Hue 2.5Y Hue 3.5 Histic Ep A3 - Black His A3 - Stratified S1 - Sandy M S3 - 5 cm Mu S4 - Sandy G S4 - Sandy G | etion, RM=Reduced Matrix Color (Moist) 2.5/1 5/2 2.5/1 Indicators (ch ipedon tic 1 Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LR | e RR G, H) | Color Color Hue_10Y Hue_7.5Y Hue_10Y Hue_7.5Y Hue_10Y Hue_10Y Hue_10Y F3 - Sandy F3 - Deplet F3 - Deplet F3 - Redox F6 - Redox F16 - High | (Moist) R 5/6 R 4/6 R 6/1 e not preser Redox ed Matrix Mucky Miner Gleyed Matrix Dark Surface ed Dark Surface ed Dark Surface Plains Depresi | Mottle Mottle % 7 1 2 where the second | RA 72, 73 of LRI | rix) | C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla | or Problematic Soils ¹ uck (LRR I, J) rairie Redox (LRR F, G, H) raface (LRR G) Plains Depressions (LRR H, outisde ML ed Vertic arent Material Shallow Dark Surface in in Remarks) ydrophytic vegetation and wetland hyc | LRA 72, 73) |
| Profile Descri (Type: C=Concer 0-6 6-21 6-21 6-21 0-21 0-21 0-21 0-21 0-21 0-21 0-21 0 | Hue_2.5Y Hue | etion, RM=Reduced Matrix Color (Moist) 2.5/1 5/2 2.5/1 Indicators (ch ipedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR cky Peat or Peat (LR cky Peat or Peat (LR) | e RR G, H) R F) | ed/Coated Sam Color Hue_10Y Hue_7.5Y Hue_10Y Hue_10Y Hue_10Y S5 - Sandy S5 - Sandy S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F2 - Loamy F3 - Deplet F6 - Redox F7 - Deplet F8 - Redox F16 - High | (Moist) R 5/6 R 4/6 R 6/1 e not preser Redox r Mucky Minei Gleyed Matrix Dark Surface d Matrix Depressions Plains Depres | Mottle % 7 1 2 tt): | RA 72, 73 of LR | rix) | C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla | or Problematic Soils ¹ uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) 'lains Depressions (LRR H, outisde ML ed Vertic arent Material Shallow Dark Surface in in Remarks) ydrophytic vegetation and wetland hyd d or problematic. | LRA 72, 73) drology must be present, |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 6-21 0-21 0-21 0-21 0-21 0-21 0-21 0-21 0 | Hue_2.5Y Hue_3.5 Hue S1 - Sandy M S2 - S.5 mMu S3 - 5 cm Mu S4 - Sandy G S4 - Sandy G | etion, RM=Reduced Matrix Color (Moist) 2.5/1 5/2 2.5/1 Indicators (ch ipedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR) eyed Matrix | e RR G, H) R F) | ed/Coated Sam Color Hue_10Y Hue_7.5Y Hue_10Y Hue_7.5Y Hue_10Y Hue_10Y S5 - Sandy S5 - Sandy S5 - Sandy S6 - Strippe F1 - Loamy F3 - Deplet F6 - Redox F6 - Redox F6 - Redox F7 - Deplet F8 - Redox F16 - High | (Moist) R 5/6 R 4/6 R 6/1 e not preser Redox ed Matrix Mucky Minee Gleyed Matr ad Matrix Dark Surface ed Dark Surfac | Mottle % 7 1 2 1 tt): xal xx ssions (ML | RA 72, 73 of LRI | rix) | C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla | or Problematic Soils ¹ uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Vains Depressions (LRR H, outisde ML ed Vertic arent Material Shallow Dark Surface in in Remarks) ydrophytic vegetation and wetland hyc d or problematic. | LRA 72, 73) drology must be present, letions in the |
| Profile Descri (Type: C=Concer Depth (In.) 0-6 6-21 6-21 0-21 NRCS Hydr | Hue_2.5Y Hue_3.5 Hue S1 - Sandy M S2 - S.5 mMu S3 - 5 cm Mu S4 - Sandy G S4 - Sandy G | etion, RM=Reduced Matrix Color (Moist) 2.5/1 5/2 2.5/1 Indicators (ch ipedon tic a Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR) eyed Matrix | e RR G, H) R F) | ed/Coated Sam Color Hue_10Y Hue_7.5Y Hue_10Y Hue_7.5Y Hue_10Y Hue_10Y S5 - Sandy S5 - Sandy S5 - Sandy S6 - Strippe F1 - Loamy F3 - Deplet F6 - Redox F6 - Redox F6 - Redox F7 - Deplet F8 - Redox F16 - High | (Moist) R 5/6 R 4/6 R 6/1 e not preser Redox ed Matrix Mucky Minee Gleyed Matr ad Matrix Dark Surface ed Dark Surfac | Mottle % 7 1 2 1 tt): xal xx ssions (ML | RA 72, 73 of LRI | rix) | C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla | or Problematic Soils ¹ uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) 'lains Depressions (LRR H, outisde ML ed Vertic arent Material Shallow Dark Surface in in Remarks) ydrophytic vegetation and wetland hyd d or problematic. | LRA 72, 73) drology must be present, letions in the |

WETLAND DETERMINATION DATA FORM

Great Plains Region

| Project/Site: | L3R | | | | Sample Point: w-160n50w23-a1 | | | |
|---|---|--------------|-----------|------------|--|--|--|--|
| VECETATIO | | | | | | | | |
| VEGETATIO | N (Species identified in all uppercase ar (Plot size: 30 ft. radius) | e non-native | species.) | | | | | |
| | Species Name | % Cover | Dominant | Ind.Status | Dominance Test Worksheet | | | |
| 1. | | | | | | | | |
| 2. 3. | | | | | Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) | | | |
| <u> </u> | | | | | Total Number of Dominant Species Across All Strata: 0 (B) | | | |
| 5. | | | | | | | | |
| 6. | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: N/A (A/B) | | | |
| 7. | | | | | | | | |
| 8. | | | | | Prevalence Index Worksheet | | | |
| 9. 10. | | | | | Total % Cover of: <u>Multiply by:</u> | | | |
| 10. | Total Cover = | 0 | | | OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 | | | |
| | | | - | | FAC spp. 0 x 3 = 0 | | | |
| Sapling/Shrub | Stratum (Plot size: 15 ft. radius) | | | | FACU spp. 0 x 4 = 0 | | | |
| 1. | | | | | UPL spp. 2 X 5 = 10 | | | |
| 2. | | | | | | | | |
| 3. | | | | | Total 2 (A) 10 (B) | | | |
| 4. 5. | | | | | Prevalence Index = B/A = 5.000 | | | |
| 6. | | | | | | | | |
| 7. | | | | | | | | |
| 8. | | | | | Hydrophytic Vegetation Indicators: | | | |
| 9. | | | | | Rapid Test for Hydrophytic Vegetation | | | |
| 10. | | | | | Dominance Test is > 50% | | | |
| | Total Cover = | 0 | - | | Prevalence Index is $\leq 3.0^{*}$ | | | |
| Horb Stratum (| Plot size: 5 ft. radius) | | | | Morphological Adaptations (Explain) * X Problem Hydrophytic Vegetation (Explain) * | | | |
| 1. | Beta vulgaris | 2 | N | NI | | | | |
| 2. | | | | | * Indicators of hydric soil and wetland hydrology must be | | | |
| 3. | | | | | present, unless disturbed or problematic. | | | |
| 4. | | | | | Definitions of Vegetation Strata: | | | |
| 5. | | | | | Tree | | | |
| 6 7. | | | | | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast 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. | | | | | | | | |
| 14. | <u> </u> | | | | Woody Vines - All woody vines, regardless of height. | | | |
| | Total Cover = | 2 | | | - | | | |
| | | | | | | | | |
| | ratum (Plot size: 30 ft. radius) | | | | | | | |
| 1. | | | | | | | | |
| 2. 3. | <u> </u> | | | | Hydrophytic Vegetation Present? Y | | | |
| 5. | <u> </u> | | | | | | | |
| 4. | · | | | | | | | |
| | Total Cover = | 0 | | | | | | |
| Remarks: The sample area is located in an agricultural field which has been planted to sugar beets. Very little vegetation is present due to flooding after planting and potential herbicide application. | | | | | | | | |
| Additional Remarks: | | | | | | | | |
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