WETLAND DETERMINATION DATA FORM Great Plains Region

| | | | | | | | | | | T | 22/25/1 | |
|--|---|--|---|--|--|--|--|-------------------|--|--|--|--------------|
| Project/Site: | | L3R | | | | | | | | Date: | 09/25/14 Maraball | |
| Applicant: | | Enbridge NTT/BEH | | | Subragia | n /MI D/ | \ | MLRA 56 | | County: State: | Marshall MN | |
| Investigators Soil Unit: | I18A | NI I/DEN | | | _Subregio | • | A or LRR): I Classification | | | State. | IVIIN | |
| Landform: | Depression | | | | cal Relief: | | Classification | • | | Sample Point | w-154n45w2-c2 | |
| Slope (%): | 3 - 7% | | Latitude: 48.1 | | | -96.403 | 3678 | Datum: | | | | |
| | | nditions on the site | | | | | | | □ No | Section: | | |
| Are Vegetation | · | □, or Hydrology | | | | | e normal circun | nstances pro | esent? | Township: | | |
| Are Vegetation | on 🛚 Soil | □, or Hydrology | □aturally pr | oblematic? | | | | □ No · | | Range: | Dir: | |
| SUMMARY C | OF FINDINGS | 6 | | | | | | | | | | |
| Hydrophytic \ | • | | Yes | | _ | | | | ls Present? | | | |
| Wetland Hyd | | | Yes | | | | | | | t Within A W | | |
| Remarks: | | • | ooded basin | located on the | e edge of a | a farmed | d soybean field. | Dominant p | plants includ | le narrow-lea | f cattail, reed canary gra | ass, and |
| | fowl blue gr | ass. | | | | | | | | | | |
| HYDROLOG' | Y | | | | | | | | | | | |
| Wetland Hy | drology Ind | icators (Check all | that apply; N | linimum of or | e primary | or two s | econdary requi | red): | | | | |
| Primary: | | · | | | | | | , | Secondary: | | | |
| | A1 - Surface | | | | B11 - Salt | | | | | B6 - Surface S | | |
| | A2 - High Wa A3 - Saturatio | | | | B13 - Aqua C1 - Hydro | | | | | B8 - Sparsely B10 - Drainage | Vegetated Concave Surface |) |
| | B1 - Water M | | | | C1 - Hydro | | | | | | e Patterns Rhizospheres on Living Roc | ts (tilled) |
| | B2 - Sedimen | | | | | | spheres on Living | Roots (not till | € □ | C8 - Crayfish B | | ito (tillou) |
| | B3 - Drift Dep | | | | C4 - Prese | ence of Re | educed Iron | , | | C9 - Saturation | n Visible on Aerial Imagery | |
| | B4 - Algal Ma | | | | C7 - Thin N | | ace | | ☑ | D2 - Geomorp | | |
| | B5 - Iron Dep | osits n Visible on Aerial Im | aggery. | | Other (Exp | olain) | | | | D5 - FAC-Neu | tral Test aved Hummocks (LRR F) | |
| | B9 - Water-St | | iagery | | | | | | | D1 - F1051-F16 | aved Hullillocks (LKK F) | |
| | 20 Water C | aniod Edaved | | | | | | | | | | |
| Field Observ | vations: | | | | | | | | | | | |
| Surface Wate | | Yes 🗆 | Dept | h: | (in.) | | | | | | | |
| Water Table | | Yes | Dept | | - (in.) | | | Wetland F | łydrology l | Present? | Υ | |
| Saturation Pr | | Yes | Dept | | - (in.) | | | | | | | |
| | | | | | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No primary hydrology indicators are present. Wetland hydrology is assumed based on hydrophytic vegetation and landscape position. | | | | | | | | | | | | |
| | <u> </u> | | | | <u>.</u> | | - | da a da di a coa | notation on | d law da a a a a | | |
| Remarks: | <u> </u> | | | | <u>.</u> | | - | drophytic ve | getation an | d landscape | position. | |
| Remarks: | <u> </u> | | | | <u>.</u> | | - | drophytic ve | getation an | d landscape _l | position. | |
| Remarks: | No primary | hydrology indicato | rs are preser | nt. Wetland hy | drology is | assume | ed based on hyd | | getation and | d landscape | position. | |
| Remarks: SOILS Profile Descri | No primary | | eeded to docu | nt. Wetland hy | drology is | assume | ed based on hyd | ndicators.) | getation and | d landscape | position. | |
| Remarks: SOILS Profile Descri | No primary | hydrology indicators be to the depth ne | eeded to docu | nt. Wetland hy | drology is | assume | ed based on hyd | ndicators.) | getation and | d landscape | position. | |
| Remarks: SOILS Profile Descri | No primary | hydrology indicators be to the depth ne | eeded to docu | nt. Wetland hy | drology is | assume | ed based on hydee absence of in Pore Lining, M=Mati | ndicators.) | getation and | d landscape | position. | |
| Remarks: SOILS Profile Descri | No primary | hydrology indicators be to the depth ne | eeded to docu | nt. Wetland hy ument the indi | drology is | onfirm th | ed based on hydee absence of in Pore Lining, M=Mati | ndicators.) | getation and | d landscape | position. Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) | eeded to docu | ument the indied/Coated Sand | drology is | onfirm th | ed based on hydeed based on hy | ndicators.) | | d landscape | | |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary ption (Descri | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 | eeded to docu | ument the indicad/Coated Sand Color (| cator or co | onfirm th | ed based on hydeed based on hy | ndicators.) | Texture | d landscape | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 | No primary Iption (Descri | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 | eeded to docu | ument the indicad/Coated Sand Color (| cator or co | onfirm th | ed based on hydee absence of in Fore Lining, M=Matrices | ndicators.) | Texture CL | d landscape | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 | No primary Iption (Descri | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 | eeded to docu | ument the indicad/Coated Sand Color (| cator or co | onfirm th | ed based on hydee absence of in Fore Lining, M=Matrices | ndicators.) | Texture CL | d landscape | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 | No primary Iption (Descri | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 | eeded to docu | ument the indicad/Coated Sand Color (| cator or co | onfirm th | ed based on hydee absence of in Fore Lining, M=Matrices | ndicators.) | Texture CL | d landscape | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 | No primary Iption (Descri | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 | eeded to docu | ument the indicad/Coated Sand Color (| cator or co | onfirm th | ed based on hydee absence of in Fore Lining, M=Matrices | ndicators.) | Texture CL | d landscape | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 | No primary ption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 | eeded to docu atrix, CS=Cover | color (| cator or co Grains; Loca Moist) | onfirm the tion: PL=P | ed based on hydee absence of in Fore Lining, M=Matrices | ndicators.) | Texture CL | d landscape | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 | No primary Iption (Descri | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 | eeded to docu atrix, CS=Cover | ument the indicad/Coated Sand Color (| cator or co Grains; Loca Moist) | onfirm the tion: PL=P | ed based on hydee absence of in Pore Lining, M=Matro | ndicators.) | Texture CL SCL | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr | No primary ption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 | eeded to docu atrix, CS=Cover | Color () Hue_10YR | cator or configurations; Local Moist) 6/8 not present | onfirm the tion: PL=P | ed based on hydee absence of in Pore Lining, M=Matro | Location M | Texture CL SCL | or Problematic | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 | No primary Iption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/1 Indicators (ch | eeded to docu atrix, CS=Cover | Color (Hue_10YR Addicators are in the set of the set | cator or configuration of present sedox Matrix | monfirm the stion: PL=P Mottle % 5 | ed based on hydee absence of in Pore Lining, M=Matro | Location M | Texture CL SCL Indicators f A9 - 1 cm M A16 - Coast | or Problemation | Remarks c Soils ¹ (LRR F, G, H) | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His | hydrology indicator be to the depth neletion, RM=Reduced Marix Color (Moist) 2/1 4/1 Indicators (chaine) | eeded to docu atrix, CS=Cover | Color () Hue_10YR Indicators are I S5 - Sandy R I S6 - Stripped I F1 - Loamy N | cator or configuration of present declaration of present declaration of the configuration of | monfirm the tion: PL=P Mottle % 5 at): | ed based on hydee absence of in Pore Lining, M=Matro | Location M | Texture CL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St | or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) | Remarks c Soils ¹ (LRR F, G, H) | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge | hydrology indicator be to the depth neletion, RM=Reduced Marix Color (Moist) 2/1 4/1 Indicators (chair) | eeded to docuatrix, CS=Covers % 100 95 neck here if ir | Color (Hue_10YR Addicators are in the set of the set | cator or configuration of present sedox Mucky Miner Gleyed Matrix | monfirm the tion: PL=P Mottle % 5 at): | ed based on hydee absence of in Pore Lining, M=Matro | Location M | Texture CL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F | or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression | Remarks c Soils ¹ (LRR F, G, H) | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified | hydrology indicator be to the depth neletion, RM=Reduced Marix Matrix Color (Moist) 2/1 4/1 Indicators (chair) ipedon stic of Sulfide Layers (LRR F) | eeded to docuatrix, CS=Covers % 100 95 neck here if ir | Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted | cator or configurations; Local Moist) 6/8 not present sedox I Matrix Mucky Miner Gleyed Matrix d Matrix | monfirm the street of the stre | ed based on hydee absence of in Pore Lining, M=Matro | Location M | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce | or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic | Remarks c Soils ¹ (LRR F, G, H) | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu | hydrology indicator be to the depth neletion, RM=Reduced Marix Matrix Color (Moist) 2/1 4/1 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) | eeded to docuatrix, CS=Covers % 100 95 | Color (Hue_10YR Adicators are I S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D | cator or configuration of present and pres | onfirm the tion: PL=P Mottle % 5 tt): | ed based on hydee absence of in Pore Lining, M=Matro | Location M | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P | or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material | Remarks c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu | hydrology indicator be to the depth neletion, RM=Reduced Mark Matrix Color (Moist) 2/1 4/1 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface | eeded to docuatrix, CS=Covers % 100 95 neck here if ir | Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted | cator or configuration of present district Mucky Miner Gleyed Matrix Dark Surfaced Dar | monfirm the stion: PL=P Mottle Mottle stip: all ix acce | ed based on hydee absence of in Pore Lining, M=Matro | Location M | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very | or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic earent Material Shallow Dark S | Remarks c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M | hydrology indicator be to the depth neletion, RM=Reduced Mark Matrix Color (Moist) 2/1 4/1 Indicators (charter) ipedonetic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral | eeded to docuatrix, CS=Covers % 100 95 neck here if ir | Color (Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D | cator or configurations; Local Moist) 6/8 6/8 Anot present Redox Mucky Miner Gleyed Matrix Mucky Miner Gleyed Matrix Oark Surface Depressions | monfirm the tion: PL=P Mottle Mottle 5 al at ace | ed based on hydee absence of in Pore Lining, M=Matro | Location M | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very | or Problemation uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material | Remarks c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) | |
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WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | L3R | | | | Sample Point: w-154n45w2-c2 |
|-------------------|---|----------------|-----------------|------------|---|
| | | | | | • |
| VEGETATION | (Species identified in all uppercase | are non-native | species.) | | |
| Tree Stratum (| Plot size: 30 ft. radius) | | | | |
| | <u>Species Name</u> | % Cover | <u>Dominant</u> | Ind.Status | Dominance Test Worksheet |
| 1. | | | | | |
| 2. | | | | | Number of Dominant Species that are OBL, FACW, or FAC:4(A) |
| 3. | | | | | |
| 4. | | | | | Total Number of Dominant Species Across All Strata: 4 (B) |
| 5. | | | | | |
| 6. | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) |
| 7. | | | | | |
| 8. | | | | | Prevalence Index Worksheet |
| 9. | | | | | Total % Cover of: Multiply by: |
| 10. | | | | | OBL spp15 |
| | Total Cover | = 0 | FACW spp65 | | |
| | | | OBL spp. 15 | | |
| Sapling/Shrub S | Stratum (Plot size: 15 ft. radius) | | | | FACU spp. $\underline{}$ $x 4 = \underline{}$ |
| 1. | | | | | UPL spp. $\underline{\qquad}$ $x = \underline{\qquad}$ $\underline{\qquad}$ |
| 2. | | | | | |
| 3. | | | | | Total 80 (A) 145 (B) |
| 4. | | | | | |
| 5. | | | | | Prevalence Index = B/A = 1.813 |
| 6. | | | | | |
| 7. | | _ | | | |
| 8. | | | | | Hydrophytic Vegetation Indicators: |
| 9. | | | | | Rapid Test for Hydrophytic Vegetation |
| 10. | | | | | X Dominance Test is > 50% |
| | Total Cover | = 0 | | | X Prevalence Index is ≤ 3.0 * |
| | | | _ | | Morphological Adaptations (Explain) * |
| Herb Stratum (I | Plot size: 5 ft. radius) | | | | Problem Hydrophytic Vegetation (Explain) * |
| 1. | Phalaris arundinacea | 30 | Υ | FACW | |
| 2. | Poa palustris | 15 | Υ | FACW | * Indicators of hydric soil and wetland hydrology must be |
| 3. | Typha angustifolia | 15 | · Y | OBL | present, unless disturbed or problematic. |
| 4. | Agrostis gigantea | 15 | Y | FACW | Definitions of Vegetation Strata: |
| 5. | Calamagrostis stricta | 5 | N | FACW | |
| 6 | | | | | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast |
| 7. | | - | | | height (DBH), regardless of height. |
| 8. | | | | | |
| 9. | 1 | | | | Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. |
| 10. | | | | | |
| 11. | | | | | 1 |
| 12. | | | | | Herb - All herbaceous (non-woody) plants, regardless of size. |
| 13. | I . | | | | - |
| 14. | | | | | - |
| 15. | | | | | Woody Vines - All woody vines, regardless of height. |
| 15. | Total Cavan | 00 | | | - VVOCAY VIIIeS - 7411 WOODY VIIIOS, TOGATAICSS OF HOIGHT. |
| | Total Cover | = 80 | | | |
| 11/2 1 1/2 01 | (D) | | | | |
| Woody Vine Sti | ratum (Plot size: 30 ft. radius) | | | | |
| 1. | <u> </u> | | | | |
| 2. | | | | | II. In a last of the Manager of the a Danager of the A |
| 3. | | | | | Hydrophytic Vegetation Present?Y |
| 5. | | | | | |
| 4. | T.110 | | | | |
| | Total Cover | | | | |
| Remarks: | The wetland vegetation is dominated by na | arrow-leat cat | ttail, reed | canary gra | ass, redtop, and fowl blue grass. |
| | | | | | |
| | | | | | |
| Additional R | lemarks: | | | | |
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