## WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site:  |   | L3R  |  |  |  |  |  |   | Date:   | 07/30/14  |          |  |  |
|--|---|--|--|--|--|--|--|---|---|---|----------|--|--|
| Applicant:   |   | Enbridge   |  |  |  |  |  |   | County:   | Marshall  |          |  |  |
| Investigators  | :   | KRG/NTT  |  |  | Subregion (I   | MLRA or LRR):  | MLRA 56  |   | State:  | MN  |          |  |  |
| Soil Unit:   | 123A  |  |  |  |  | NWI Classifica   | ation:   |   |   |   |          |  |  |
| Landform:  | Rise  |  |  |  | cal Relief: <mark>VI</mark>  |  |  |   | Sample Point:   | u-157n47w21-b1  |          |  |  |
| Slope (%):   | 3 - 7%  |  | Latitude: 48.  |  | Longitude: -9  |  | Datum:   |   |   |   |          |  |  |
|  |   | nditions on the si   |  |  | ar? (If no, explain  |  |  | □ No  | Section:  |   |          |  |  |
| Are Vegetation   |   | □, or Hydrology  | •  | tly disturbed?   |  | Are normal ci  | rcumstances pre  | esent?  | Township:   |   |          |  |  |
| Are Vegetation   |   | □, or Hydrology  | □aturally p  | roblematic?  |  | ✓ \  | ∕es □ No   |   | Range:  | Dir:  |          |  |  |
| SUMMARY C  | OF FINDING:   | S  |  |  |  |  |  |   |   |   |          |  |  |
| Hydrophytic \  | Vegetation P  | resent?  | No   |  |  |  |  | ls Present?   |   |   |          |  |  |
| Wetland Hyd  | Irology Prese   | nt?  | No   |  |  |  | Is This Sar  | mpling Poin   | t Within A We   | etland? <b>No</b>   |          |  |  |
| Remarks: The upland point is located on a slight rise between a roadside ditch wetland and an agricultural field planted in soybeans. Vegetation is dominated by |   |  |  |  |  |  |  |   |   |   |          |  |  |
| Kentucky bluegrass and bird's-foot trefoil.  |   |  |  |  |  |  |  |   |   |   |          |  |  |
| <b>HYDROLOG</b>  | Υ   |  |  |  |  |  |  |   |   |   |          |  |  |
| Wetland Hy   | drology Ind   | icators (Check al  | ll that apply:   | Minimum of on  | e primary or   | two secondary r  | equired):  |   |   |   |          |  |  |
| Primary:   | •   | ioatoro (oricon ai   | ii tilat apply,  | William Grant  | o primary or   | two occorridary r  | oquirou):  | Secondary:  |   |   |          |  |  |
|  | A1 - Surface  | Water  |  |  | B11 - Salt Cru   | ıst  |  |   | B6 - Surface S  | oil Cracks  |          |  |  |
| □ A2 - High Water Table  |   |  |  |  | B13 - Aquatic  |  |  |   |   | /egetated Concave Surface   |          |  |  |
|  | A3 - Saturation   |  |  |  | C1 - Hydroger  |  |  |   | B10 - Drainage  |   | n        |  |  |
|  | B1 - Water M  |  |  |  |  | son Water Table  | iving Boots (not till  |   |   | Rhizospheres on Living Roots (  | (tilled) |  |  |
|  | B2 - Sedimen  | •  |  |  |  | e of Reduced Iron  | iving Roots (not till  | , –   | C8 - Crayfish B   | Visible on Aerial Imagery   |          |  |  |
| □ B3 - Drift Deposits □ C4 - Presence of Reduce □ B4 - Algal Mat or Crust □ C7 - Thin Muck Surface   |   |  |  |  |  |  |  |   | D2 - Geomorph   |   |          |  |  |
|  | B5 - Iron Dep   |  |  |  | Other (Explain   | n)   |  |   | D5 - FAC-Neut   |   |          |  |  |
|  |   | on Visible on Aerial Ir  | magery   |  |  |  |  |   | D7 - Frost-Hea  | ved Hummocks (LRR F)  |          |  |  |
|  | B9 - Water-S  | tained Leaves  |  |  |  |  |  |   |   |   |          |  |  |
|  |   |  |  |  |  |  |  |   |   |   |          |  |  |
| Field Observ   |   |  |  |  |  |  |  |   |   |   |          |  |  |
| Surface Wate   |   | Yes □  |  | oth:   | _ (in.)  |  | Wetland H  | lydrology F   | Present?  | N   |          |  |  |
| Water Table  |   | Yes □  |  | oth:   | (in.)  |  | Trottalla I  | ., a. o.og, .   |   | <u></u>   |          |  |  |
| Saturation Pr  | resent?   | Yes  | Dep  | oth:   | _ (in.)  |  |  |   |   |   |          |  |  |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:   |   |  |  |  |  |  |  |   |   |   |          |  |  |
| Describe Reco  | orded Data (s   | stream gauge, mor  | nitoring well, a                                       | erial photos, pre  | evious inspec  | tions), if available   | :<br>:   |   |   |   |          |  |  |
| Describe Reco  |   | stream gauge, mor  |  |  | evious inspec  | tions), if available   | :  |   |   |   |          |  |  |
|  |   |  |  |  | evious inspec  | tions), if available   | :  |   |   |   |          |  |  |
|  |   |  |  |  | evious inspec  | tions), if available   | :  |   |   |   |          |  |  |
| Remarks:  SOILS Profile Descri   | No indicato   | rs of wetland hydr   | rology were o  | bserved.   | cator or confi   | irm the absence  | of indicators.)  |   |   |   |          |  |  |
| Remarks:  SOILS Profile Descri   | No indicato   | rs of wetland hydr   | rology were o  | bserved.   | cator or confi   | irm the absence  | of indicators.)  |   |   |   |          |  |  |
| Remarks:  SOILS Profile Descri   | No indicato   | rs of wetland hydr<br>be to the depth no<br>etion, RM=Reduced M  | rology were o  | bserved.   | cator or confi   | irm the absence<br>: PL=Pore Lining, M   | of indicators.)  |   |   |   |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer   | No indicato   | rs of wetland hydr<br>be to the depth no<br>etion, RM=Reduced M<br>Matrix  | eeded to doo<br>Matrix, CS=Cove                        | bserved.<br>cument the indicated/Coated Sand (   | cator or confi<br>Grains; Location   | irm the absence<br>: PL=Pore Lining, Man   | of indicators.)<br>=Matrix)  |   |   |   |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer   | No indicato   | rs of wetland hydrological libe to the depth not be to the depth not be toon, RM=Reduced Matrix  Color (Moist)   | eeded to doo<br>Matrix, CS=Cove                        | cument the indicated/Coated Sand Coated Color (I   | cator or confi<br>Grains; Location   | irm the absence<br>: PL=Pore Lining, M   | of indicators.)<br>=Matrix)  | Texture   |   | Remarks   |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer   | No indicato   | rs of wetland hydrological libe to the depth not be to the depth not be toon, RM=Reduced Matrix  Color (Moist)   | eeded to doo<br>Matrix, CS=Cove                        | cument the indicated/Coated Sand Coated Color (I   | cator or confi<br>Grains; Location   | irm the absence<br>: PL=Pore Lining, Man   | of indicators.)<br>=Matrix)  | Texture<br>CL   |   | Remarks   |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer   | No indicato   | be to the depth notetion, RM=Reduced Matrix  Color (Moist)  2/1  | eeded to doo<br>Matrix, CS=Cove                        | cument the indicated Sand Control Color (1900)   | cator or confi<br>Grains; Location   | irm the absence<br>: PL=Pore Lining, Man   | of indicators.)<br>=Matrix)  | Texture<br>CL<br>FS   |   | Remarks   |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5  | No indicato  ption (Descriptration, D=Depl  | be to the depth notetion, RM=Reduced Matrix  Color (Moist)  2/1  | eeded to doo Matrix, CS=Cove                           | cument the indicated Sand Control Color (1900)   | cator or confi<br>Grains; Location   | irm the absence<br>: PL=Pore Lining, Man   | of indicators.)<br>=Matrix)  | CL  |   | Remarks   |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5  | No indicato  ption (Descriptration, D=Depl  | be to the depth notetion, RM=Reduced Matrix  Color (Moist)  2/1  | eeded to doo Matrix, CS=Cove                           | cument the indicated Sand Control Color (1900)   | cator or confi<br>Grains; Location   | irm the absence<br>: PL=Pore Lining, Man   | of indicators.)<br>=Matrix)  | CL  |   | Remarks   |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5  | No indicato  ption (Descriptration, D=Depl  | be to the depth notetion, RM=Reduced Matrix  Color (Moist)  2/1  | eeded to doo Matrix, CS=Cove                           | cument the indicated Sand Control Color (1900)   | cator or confi<br>Grains; Location   | irm the absence<br>: PL=Pore Lining, Man   | of indicators.)<br>=Matrix)  | CL  |   | Remarks   |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5  | No indicato  ption (Descriptration, D=Depl  | be to the depth notetion, RM=Reduced Matrix  Color (Moist)  2/1  | eeded to doo Matrix, CS=Cove                           | cument the indicated Sand Control Color (1900)   | cator or confi<br>Grains; Location   | irm the absence<br>: PL=Pore Lining, Man   | of indicators.)<br>=Matrix)  | CL  |   | Remarks   |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18   | No indicato  ption (Descriptration, D=Depl  Hue_10YR Hue_10YR   | Matrix Color (Moist)  2/1 3/2  | eeded to doo Matrix, CS=Cove                           | cument the indicated Sand Coolor (1900)  | cator or configrains; Location  Moist)   | irm the absence<br>: PL=Pore Lining, Man   | of indicators.)<br>=Matrix)  | CL  |   | Remarks   |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5  | No indicato  ption (Descriptration, D=Depl  Hue_10YR Hue_10YR   | Matrix Color (Moist)  2/1 3/2  | eeded to doo Matrix, CS=Cove                           | cument the indicated Sand Control Color (1900)   | cator or configrains; Location  Moist)   | irm the absence : PL=Pore Lining, Max  Mottles  % Type   | of indicators.)<br>=Matrix)  | CL<br>FS  | or Problematic  | _   |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18  NRCS Hydr  | No indicato  ption (Descriptration, D=Depl  Hue_10YR Hue_10YR   | Matrix Color (Moist)  2/1 3/2  | eeded to doo Matrix, CS=Cove                           | cument the indicated Sand Coolor (1900)  | cator or configrains; Location  Moist)  not present):  | irm the absence : PL=Pore Lining, Max  Mottles  % Type   | of indicators.) =Matrix)  Location   | CL<br>FS  | or Problematic  | _   |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18   | No indicato  Iption (Description, D=Depl  Hue_10YR Hue_10YR  Hue_10YR   | Matrix Color (Moist)  2/1 3/2  Indicators (Classical Action)   | eeded to doo Matrix, CS=Cove                           | cument the indicators are r  | cator or configrains; Location  Moist)  not present):  edox Matrix   | irm the absence : PL=Pore Lining, Max  Mottles  % Type   | of indicators.) =Matrix)  Location   | CL<br>FS<br>Indicators f<br>A9 - 1 cm M   |   | : Soils <sup>1</sup>  |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18  NRCS Hydr  | Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His   | matrix Color (Moist)  2/1 3/2  Indicators (classification)   | eeded to doo Matrix, CS=Cove                           | cument the indicators are r  | cator or configrains; Location  Moist)  not present): edox Matrix Mucky Mineral  | irm the absence : PL=Pore Lining, Max  Mottles  % Type   | of indicators.) =Matrix)  Location   | Indicators for A9 - 1 cm M A16 - Coast S7 - Dark Su   | uck (LRR I, J)<br>Prairie Redox (<br>urface (LRR G)   | : <b>Soils<sup>1</sup></b><br>LRR F, G, H)                                |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18  NRCS Hydr  | Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge  | matrix Color (Moist)  2/1 3/2  Indicators (classics in Sulfide   | eeded to doo Matrix, CS=Cove                           | cument the indicators are r  S5 - Sandy R  S6 - Stripped F1 - Loamy M F2 - Loamy G   | Cator or configrains; Location  Moist)  Mot present):  edox Matrix Mucky Mineral Bleyed Matrix   | irm the absence : PL=Pore Lining, Max  Mottles  % Type   | of indicators.) =Matrix)  Location   | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P  | uck (LRR I, J)<br>Prairie Redox (<br>urface (LRR G)<br>Pains Depressio  | : Soils <sup>1</sup>  |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18  NRCS Hydr  | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified   | matrix Color (Moist)  Indicators  Indicators  Sipedon Stic Sic Sulfide Layers (LRR F)  | eeded to doo Matrix, CS=Cove                           | cument the indicators are r  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy G  F3 - Depleted   | cator or configrains; Location  Moist)  Mot present):  edox Matrix Mucky Mineral Gleyed Matrix I Matrix  | irm the absence : PL=Pore Lining, Max  Mottles  % Type   | of indicators.) =Matrix)  Location   | Indicators f<br>A9 - 1 cm M<br>A16 - Coast<br>S7 - Dark St<br>F16 - High P<br>F18 - Reduc   | uck (LRR I, J)<br>Prairie Redox (<br>urface (LRR G)<br>Plains Depressio<br>ed Vertic                                    | : <b>Soils<sup>1</sup></b><br>LRR F, G, H)                                |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18  NRCS Hydr  | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu  | matrix Color (Moist)  Indicators  Indicato | eeded to doo Matrix, CS=Cove                           | cument the indicators are r  S5 - Sandy R  S6 - Stripped  F1 - Loamy N  F2 - Loamy N  F3 - Depleted  F6 - Redox D  | cator or configrains; Location  Moist)  Moist)  not present): edox Matrix Mucky Mineral Gleyed Matrix I Matrix ark Surface   | irm the absence : PL=Pore Lining, Max  Mottles  % Type   | of indicators.) =Matrix)  Location   | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduc TF2 - Red P  | uck (LRR I, J)<br>Prairie Redox (<br>urface (LRR G)<br>Plains Depressio<br>ed Vertic<br>arent Material                  | ESoils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)        |          |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18  NRCS Hydr  | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu  | matrix Color (Moist)  Indicators  Indicato | eeded to doo Matrix, CS=Cove                           | cument the indicators are r  S5 - Sandy R  S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted  | cator or configrains; Location  Moist)  Hot present):  edox Matrix Mucky Mineral Gleyed Matrix I Matrix ark Surface I Dark Surface                                   | irm the absence : PL=Pore Lining, Max  Mottles  % Type   | of indicators.) =Matrix)  Location   | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduc TF2 - Red P TF12 - Very  | uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ed Vertic arent Material Shallow Dark S                  | ESoils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)        |          |  |  |
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| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18   | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu              | Indicators  Indica | eeded to doo Matrix, CS=Cove  9 10 10 check here if    | cument the indicators are r  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy C  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D  | cator or configrains; Location  Moist)  Moist)  edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface I Dark Surface epressions                               | irm the absence : PL=Pore Lining, Max  Mottles % Type  | of indicators.) =Matrix)  Location   | Indicators for A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduct TF2 - Red P TF12 - Very Other (Explain Indicators of heads)             | uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S uin in Remarks) | ESoils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)        | resent,  |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18  NRCS Hydr  | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N                           | Indicators  Indica | eeded to doo Matrix, CS=Cove  9 10 10 check here if    | cument the indicators are r  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy C  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D  | cator or configrains; Location  Moist)  Moist)  edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface I Dark Surface epressions                               | irm the absence : PL=Pore Lining, Max  Mottles % Type  | of indicators.) =Matrix)  Location   | Indicators for A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduct TF2 - Red P TF12 - Very Other (Explain Indicators of heads)             | uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S in in Remarks)  | Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  urface | resent,  |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18   | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu              | Indicators  Indica | eeded to doo Matrix, CS=Cove  9 10 10 check here if    | cument the indicators are r  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy C  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D  | cator or configrains; Location  Moist)  Moist)  edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface I Dark Surface epressions                               | irm the absence : PL=Pore Lining, Max  Mottles % Type  | of indicators.) =Matrix)  Location   | Indicators for A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduct TF2 - Red P TF12 - Very Other (Explain Indicators of heads)             | uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S uin in Remarks) | Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  urface | resent,  |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18   | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G | Ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 3/2  Indicators (classical August (LRR FGH)  Ick (LRR FGH)  Ic | eeded to doo Matrix, CS=Cove  9 10 10 check here if    | cument the indicators are r  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy C  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D  | cator or configrains; Location  Moist)  Moist)  not present):  edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface I Dark Surface epressions ains Depressio | irm the absence PL=Pore Lining, Management of the second o | of indicators.) =Matrix)  Location   | Indicators for A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduct TF2 - Red P TF12 - Very Other (Explain Indicators of hunless disturbed) | uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S uin in Remarks) | Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  urface | resent,  |  |  |
| Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-18  NRCS Hydr  | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G | Ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 3/2  Indicators (classical August (LRR FGH)  Ick (LRR FGH)  Ic | eeded to doo Matrix, CS=Cove  9 10 10 10 check here if | cument the indicators are respectively.  Color (100)  Col | cator or configrains; Location  Moist)  Moist)  not present):  edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface I Dark Surface epressions ains Depressio | irm the absence PL=Pore Lining, Management of the second o | of indicators.) =Matrix)  Location  Graph of the state of | Indicators for A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P F18 - Reduct TF2 - Red P TF12 - Very Other (Explain Indicators of hunless disturbed) | uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S uin in Remarks) | Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  urface | resent,  |  |  |

## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

| Project/Site:    | L3R   |              |                 |   | Sample Point: u-157n47w21-b1  |
|------------------|---|--------------|-----------------|---|---|
|                  |   |              |                 |   | -   |
| <b>VEGETATIO</b> | N (Species identified in all uppercase ar   | e 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:(A)   |
| 3.               |   |              |                 |   |   |
| 4.               |   |              |                 |   | Total Number of Dominant Species Across All Strata: 2 (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.              |   |              |                 |   | OBL spp 0   |
|                  | Total Cover =                               | 0            |                 | FACW spp. $\underline{\qquad}$ $X 2 = \underline{\qquad}$ $\underline{\qquad}$ 10 |   |
|                  |   |              |                 |   | OBL spp.       0       x 1 =       0         FACW spp.       5       x 2 =       10         FAC spp.       5       x 3 =       15         FACU spp.       100       x 4 =       400   |
| Sapling/Shrub S  | Stratum (Plot size: 15 ft. radius)          |              |                 |   | FACU spp. $100$ $X 4 = 400$   |
| 1.               |   |              |                 |   | UPL spp. $\underline{}$ |
| 2.               |   |              |                 |   |   |
| 3.               |   |              |                 |   | Total 115 (A) 450 (B)   |
| 4.               |   |              |                 |   |   |
| 5.               |   |              |                 |   | Prevalence Index = B/A = 3.913  |
| 6.               |   |              |                 |   |   |
| 7.               |   |              |                 |   |   |
| 8.               |   |              |                 |   | Hydrophytic Vegetation Indicators:  |
| 9.               |   |              |                 |   | Rapid Test for Hydrophytic Vegetation   |
| 10.              |   |              |                 |   | Dominance Test is > 50%   |
|                  | Total Cover =                               | 0            |                 |   | Prevalence Index is ≤ 3.0 *   |
|                  |   |              | _               |   | Morphological Adaptations (Explain) *   |
| Herb Stratum (   | Plot size: 5 ft. radius)                    |              |                 |   | Problem Hydrophytic Vegetation (Explain) *  |
| 1.               | Poa pratensis                               | 30           | Υ               | FACU  |   |
| 2.               | Lotus corniculatus                          | 30           | Υ               | FACU  | * Indicators of hydric soil and wetland hydrology must be   |
| 3.               | Phleum pratense                             | 15           | <br>N           | FACU  | present, unless disturbed or problematic.   |
| 4.               | Melilotus officinalis                       | 15           | N               | FACU  | Definitions of Vegetation Strata:   |
| 5.               | Apocynum cannabinum                         | 5            | N               | FAC   |   |
| 6                | Taraxacum officinale                        | 5            | N               | FACU  | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast   |
| 7.               | Glycine max                                 | 5            | N               | NI  | height (DBH), regardless of height.   |
| 8.               | Cirsium arvense                             | 5            | N               | FACU  |   |
| 9.               | Phalaris arundinacea                        | 5            | N               | FACW  | Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.   |
| 10.              | Frialans alunumacea                         |              | 11              | TAOW  | Capinig/Ciriab  |
| 11.              |   |              |                 |   |   |
| 12.              |   |              |                 |   | Herb - All herbaceous (non-woody) plants, regardless of size.   |
| 13.              |   |              |                 |   | TIEID 1 7 III TIOI Buddedda (Tioi T Woody) plante, regardiodd o'i cizo.   |
|                  |   |              |                 |   |   |
| 14.              |   |              |                 |   | Woody Vines - All woody vines, regardless of height.  |
| 15.              | Tatal Oassa                                 | 445          |                 |   | Woody Vines - All Woody Vines, Tegardless of Height.  |
|                  | Total Cover =                               | 115          |                 |   |   |
|                  |   |              |                 |   |   |
| Woody Vine St    | ratum (Plot size: 30 ft. radius)            |              |                 |   |   |
| 1.               |   |              |                 |   |   |
| 2.               |   |              |                 |   |   |
| 3.               |   |              |                 |   | Hydrophytic Vegetation Present?N  |
| 5.               |   |              |                 |   |   |
| 4.               |   |              |                 |   |   |
|                  | Total Cover =                               |              |                 |   |   |
| Remarks:         | Vegetation is dominated by Kentucky bluegra | ass and bir  | d's-foot tre    | efoil.  |   |
|                  |   |              |                 |   |   |
|                  |   |              |                 |   |   |
| Additional R     | Remarks:                                    |              |                 |   |   |
|                  |   |              |                 |   |   |
|                  |   |              |                 |   |   |
|                  |   |              |                 |   |   |
|                  |   |              |                 |   |   |