WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | Date: | 09/15/14 | • | |
|--|--|--|---|--|--|--|--|-----------------|--|---|---|--------|--|
| Applicant: | | | | | | | | | | County: | Pennington | | |
| | nvestigators: RAJ/BJC | | | Subregion (MLRA or LRR): MLRA 56 | | | | | | | MN | | |
| Soil Unit: | I9A | | | - | | | I Classification | : | | | | | |
| Landform: | Talf | | 10.11 | | cal Relief: | | | | | Sample Point | u-154n44w33-a1 | | |
| Slope (%): | 0 - 2% | | ude: 48.11 | | Longitude: | | | Datum: | | | | | |
| | | nditions on the site typi | | | ar? (If no, ex | ī | | ✓ Yes | □ No | Section: | | | |
| Are Vegetation | | | | disturbed? | | Are | e normal circur | • | esent? | Township: | D : | | |
| Are Vegetation | | | urally prob | olematic? | | | Yes | □ No | | Range: | Dir: | | |
| SUMMARY C | | | NI. | | | | | Lludria Cai | In Drangert | Ne | | | |
| Hydrophytic Vegetation Present? Wetland Hydrology Present? | | | | No No | | | Hydric Soils Present? Is This Sampling Poin | | | | etland? No | | |
| Remarks: | | oint in an old field. No | | of wotland | conditions | oro pro | cont | is this sai | mpling Poin | it vvitriiri A vv | eliano? No | | |
| Nemarks. | An uplanu p | onit in an old neid. No | indicators | s or welland | Conditions | ale ple | Serit. | | | | | | |
| HYDROLOG | V | | | | | | | | | | | | |
| | | (0) | | | • | , | | D | | | | | |
| | • | icators (Check all that | apply; Mir | nimum of on | e primary | or two s | econdary requi | red): | C | | | | |
| Primary: | | Nator | | | R11 - Salt | Cruet | | | Secondary: | B6 - Surface S | Soil Cracks | | |
| | □ A1 - Surface Water□ A2 - High Water Table | | | □ B11 - Salt Crust □ □ B13 - Aquatic Fauna □ | | | | | | B8 - Sparsely Vegetated Concave Surface | | | |
| | A3 - Saturation | | | ☐ C1 - Hydrogen Sulfide Odor ☐ | | | | | | | B10 - Drainage Patterns | | |
| | B1 - Water M | | | | C2 - Dry S | | | D | | | Rhizospheres on Living Roots (ti | lled) | |
| | B2 - Sedimen B3 - Drift Dep | • | | | | | spheres on Living educed Iron | Roots (not till | l€ □ | C8 - Crayfish | Burrows n Visible on Aerial Imagery | | |
| | B4 - Algal Ma | | | | C7 - Thin N | | | | | D2 - Geomorp | | | |
| | B5 - Iron Dep | | | | Other (Exp | | | | _ | D5 - FAC-Neu | | | |
| | | n Visible on Aerial Imagery | / | | | , | | | | D7 - Frost-He | aved Hummocks (LRR F) | | |
| | B9 - Water-St | ained Leaves | | | | | | | | | | | |
| Fig. 1.1.01 | -4. | | | | | | | | | | | | |
| Field Observ | | | | | <i>(</i> ,) | | | | | | | | |
| Surface Wat | | Yes | Depth: | | (in.) | | | Wetland F | Hydrology I | Present? | N | | |
| Water Table | | Yes | Depth: | | (in.) | | | | ., | | . <u>- </u> | | |
| Saturation Present? Yes Depth: (in.) | | | | | | | | | | | | | |
| | | 163 = | 200 | | . () | | | | | | | | |
| | orded Data (s | stream gauge, monitoring | <u> </u> | | | ections), | if available: | | | | | | |
| | • | | g well, aeri | al photos, pre | | ections), | if available: | | | | | | |
| Describe Reco | • | stream gauge, monitoring | g well, aeri | al photos, pre | | ections), | if available: | | | | | | |
| Describe Reco | No indicato | stream gauge, monitoring or sof wetland hydrology | g well, aeri | al photos, preent. | evious insp | , | | | | | | | |
| Describe Reconstruction Remarks: SOILS Profile Descri | No indicato | stream gauge, monitoring rs of wetland hydrology be to the depth needed | g well, aeri | al photos, preent. | evious insponent | onfirm th | e absence of ir | | | | | | |
| Describe Reconstruction Remarks: SOILS Profile Descri | No indicato | stream gauge, monitoring or sof wetland hydrology | g well, aeri | al photos, preent. | evious insponent | onfirm th | e absence of ir | | | | | | |
| Describe Reconstruction Remarks: SOILS Profile Descri | No indicato | stream gauge, monitoring rs of wetland hydrology be to the depth needed etion, RM=Reduced Matrix, Control of the street of the depth needed etion, RM=Reduced Matrix, Control of the street of the depth needed etion, RM=Reduced Matrix, Control of the street of the stree | g well, aeri | al photos, preent. | evious insponent | onfirm th | e absence of ir ore Lining, M=Mati | | | | | | |
| Describe Reconstruction Remarks: SOILS Profile Descri (Type: C=Concer | No indicato | stream gauge, monitoring rs of wetland hydrology be to the depth needed etion, RM=Reduced Matrix, C | g well, aeri are prese d to docum CS=Covered | al photos, preent. | evious insp cator or co Grains; Loca | onfirm th tion: PL=P | e absence of ir ore Lining, M=Mati | rix) | Texture | | Remarks | | |
| Describe Reconstruction Remarks: SOILS Profile Descripation (Type: C=Concert) Depth (In.) | No indicato | tream gauge, monitoring s of wetland hydrology be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) | g well, aeri are prese d to docum CS=Covered | al photos, preent. | evious insp cator or co Grains; Loca | onfirm th | e absence of ir ore Lining, M=Mati | | Texture | | Remarks | | |
| Describe Reconstruction Remarks: SOILS Profile Descripation (Type: C=Concert) Depth (In.) 0-14 | No indicator | be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 | g well, aeri are prese d to docum CS=Covered % 100 | al photos, preent. nent the indicated Sand Color (I | cator or co Grains; Loca | onfirm th tion: PL=P Mottl | e absence of ir ore Lining, M=Mati es Type | Location | CL | | Remarks | | |
| Describe Reconstruction Remarks: SOILS Profile Descripation (Type: C=Concert) Depth (In.) | No indicato | be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 | g well, aeri are prese d to docum CS=Covered | al photos, preent. | cator or co Grains; Loca | onfirm th tion: PL=P | e absence of ir ore Lining, M=Mati | rix) | Texture CL SCL | | Remarks | | |
| Describe Reconstruction Remarks: SOILS Profile Descripation (Type: C=Concert) Depth (In.) 0-14 | No indicator | be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 | g well, aeri are prese d to docum CS=Covered % 100 | al photos, preent. nent the indicated Sand Color (I | cator or co Grains; Loca | onfirm th tion: PL=P Mottl | e absence of ir ore Lining, M=Mati es Type | Location | CL | | Remarks | | |
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| Describe Reconstruction Remarks: SOILS Profile Descripation (Type: C=Concert) Depth (In.) 0-14 | No indicator | be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 | g well, aeri are prese d to docum CS=Covered % 100 | al photos, preent. nent the indicated Sand Color (I | cator or co Grains; Loca | onfirm th tion: PL=P Mottl | e absence of ir ore Lining, M=Mati es Type | Location | CL | | Remarks | | |
| Describe Recordance Remarks: SOILS Profile Descrit (Type: C=Concerd Concerd C | No indicatorion (Description (Description, D=Deplementation, D=Dep | be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 | well, aeri are prese to docum CS=Covered % 100 98 | al photos, preent. nent the indicorded Sand Control (Inc.) Color (Inc.) Hue_10YR | cator or co Grains; Loca Moist) | Mottle 2 | e absence of ir ore Lining, M=Mati es Type | Location | CL | | Remarks | | |
| Describe Recordance Remarks: SOILS Profile Descrit (Type: C=Concerd Concerd C | No indicator | be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 | well, aeri are prese to docum CS=Covered % 100 98 | al photos, preent. nent the indicated Sand Color (I | cator or co Grains; Loca Moist) | Mottle 2 | e absence of interest Lining, M=Mate | Location | CL SCL | or Problemati | | | |
| Describe Reco | No indicatorion (Description (Description, D=Deplementation, D=Dep | be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 | well, aeri are prese to docum CS=Covered % 100 98 | al photos, preent. nent the indicated Sand Control Color (Internal Control Hue_10YR icators are negative. | cator or co Grains; Loca Moist) | Mottle 2 | e absence of interest Lining, M=Mate | Location | CL SCL | or Problemati | c Soils ¹ | | |
| Describe Recordance Remarks: SOILS Profile Descrit (Type: C=Concerd Concerd C | No indicator iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep | be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 Indicators (check in the depth needed etion) | well, aeri are prese to docum CS=Covered % 100 98 | al photos, preent. nent the indicorded Sand Control (Inc.) Color (Inc.) Hue_10YR | cator or co Grains; Loca Moist) 3/6 | Mottle 2 | e absence of interest Lining, M=Mate | Location | Indicators f A9 - 1 cm M A16 - Coast | luck (LRR I, J) Prairie Redox | c Soils¹ (LRR F, G, H) | | |
| Describe Recordance Remarks: SOILS Profile Descrit (Type: C=Concerd Concerd C | Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His | stream gauge, monitoring rs of wetland hydrology be to the depth needed etion, RM=Reduced Matrix, C Matrix Color (Moist) 2/1 3/1 Indicators (check) ipedon etic | well, aeri are prese to docum CS=Covered % 100 98 | al photos, preent. nent the indice //Coated Sand Coated Sand Coat | cator or co Grains; Loca Moist) 3/6 aot presentedox Matrix lucky Miner | Mottle % 2 t): | e absence of interest Lining, M=Mate | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St | luck (LRR I, J) Prairie Redox urface (LRR G) | c Soils ¹ (LRR F, G, H) | | |
| Describe Recordance Remarks: SOILS Profile Descripation (Type: C=Concerdance) Depth (In.) 0-14 14-18 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge | be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 Indicators (check in Sulfide | well, aeri are prese | al photos, preent. nent the indice /Coated Sand Coated Sand Coate | cator or co Grains; Loca Moist) 3/6 aot presented ox Matrix lucky Miner | Mottle % 2 t): | e absence of interest Lining, M=Mate | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F | luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi | c Soils¹ (LRR F, G, H) | | |
| Describe Recordance Remarks: SOILS Profile Descripation (Type: C=Concerdance) Depth (In.) 0-14 14-18 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified | be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 Indicators (check in Sulfide Layers (LRR F) | well, aeri are prese | al photos, preent. nent the indice //Coated Sand Coated Sand Coat | cator or co Grains; Loca Moist) 3/6 aot presentedox Matrix lucky Miner leyed Matrix Matrix | mottle which was all and a second conformation and a second conformati | e absence of interest Lining, M=Mate | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce | luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic | c Soils ¹ (LRR F, G, H) | | |
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| Describe Recordance Remarks: SOILS Profile Descripation (Type: C=Concerdance) Depth (In.) 0-14 14-18 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 | be to the depth needed etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 Indicators (check line) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR G | well, aeri are prese | al photos, preent. nent the indice / Coated Sand Coat | cator or contract of present and present a | mottle with the second | e absence of ir ore Lining, M=Mati es Type C | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla | luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic Parent Material Shallow Dark S ain in Remarks) | c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface | | |
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WETLAND DETERMINATION DATA FORM

Great Plains Region

| Project/Site: | L3R | | | | Sample Point: u-154n44w33-a1 | | |
|---------------------|--|----------------|-----------------|--------------|--|--|--|
| | | | | | - | | |
| VEGETATIO | N (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:(A) | | |
| 3. | | | | | | | |
| 4. | | <u> </u> | | | Total Number of Dominant Species Across All Strata:(B) | | |
| 5. | | | | | | | |
| 6. | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) | | |
| 7. | ĺ | | | | | | |
| 8. | | | | | Prevalence Index Worksheet | | |
| 9. | | | | | Total % Cover of: Multiply by: | | |
| 10. | <u></u> | | | | | | |
| | Total Cover = 0 | | | | OBL spp. 0 | | |
| | | | _ | | FAC spp. $\frac{10}{10}$ $\times 3 = \frac{30}{10}$ | | |
| Sanling/Shrub 9 | Stratum (Plot size: 15 ft. radius) | | | | FACU spp. $\frac{40}{40}$ \times $4 = \frac{160}{160}$ | | |
| 1. | otratam (Flot size: To it: radias) | | | | UPL spp. $\frac{40}{60}$ $\times 5 = \frac{100}{300}$ | | |
| 2. | | | | | от 2 орр. <u> </u> | | |
| 3. | | | | | Total 140 (A) 550 (B) | | |
| 4. | | | | | Total 140 (A) 550 (B) | | |
| | | | | | Dravalance Index D/A 2 020 | | |
| 5. | | | | | Prevalence Index = B/A = 3.929 | | |
| 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. | Bromus inermis | 60 | Υ | UPL | | | |
| 2. | Lotus corniculatus | 30 | Υ | FACU | * Indicators of hydric soil and wetland hydrology must be | | |
| 3. | Symphyotrichum lateriflorum | 15 | N | FACW | present, unless disturbed or problematic. | | |
| 4. | Symphyotrichum lanceolatum | 15 | N | FACW | Definitions of Vegetation Strata: | | |
| 5. | Poa pratensis | 10 | N | FACU | | | |
| 6 | Apocynum cannabinum | 5 | N | FAC | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast | | |
| 7. | Solidago gigantea | 5 | N | FAC | height (DBH), regardless of height. | | |
| 8. | - Contago gigaritos | | | 1710 | | | |
| 9. | <u> </u> | | | | Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. | | |
| 10. | | | | | Capining/Official Control of the Con | | |
| 11. | | | | | | | |
| | <u> </u> | | | | Herb - All herbaceous (non-woody) plants, regardless of size. | | |
| 12. | | | | | Terb - All Herbaceous (Horr-woody) plants, regardless of size. | | |
| 13. | | | | | | | |
| 14. | | | | | All was aboving a growth state | | |
| 15. | | | | | Woody Vines - All woody vines, regardless of height. | | |
| | Total Cover | = 140 | _ | | | | |
| | | | | | | | |
| Woody Vine St | ratum (Plot size: 30 ft. radius) | | | | | | |
| 1. | | | | | | | |
| 2. | | | | | | | |
| 3. | | | | | Hydrophytic Vegetation Present? N | | |
| 5. | | | | _ | | | |
| 4. | | | | | | | |
| | Total Cover | = 0 | | | | | |
| Remarks: | | | orome and | d bird's foo | ot trefoil. Hydrophytic vegetation is not present. | | |
| | (, , , , , , , , , , , , , , , , , , , | , , | | | ye of year against a soft and a | | |
| | | | | | | | |
| Additional Demontor | | | | | | | |
| Additional Remarks: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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