WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | Date: | 09/15/14 | | |
|--|--|--|---|--|--|--|---|-----------------|---|--|---|--|--|
| Applicant: | | | | | 0 1 . | (N.41. D.A | County: State: | Pennington | | | | | |
| Investigators | | | | | | Subregion (MLRA or LRR): MLRA 56 | | | | | MN | | |
| Soil Unit: Landform: | I75A | | | | ool Boliof: | | I Classification: | · | | Comple Deint | w 154p44w21 I4 | | |
| Slope (%): | | | | | | | | | | | | | |
| | | nditions on the site typica | | | | | | ✓ Yes | □ No | Section: | | | |
| Are Vegetation | | | | disturbed? | 11 . (11 110, 02) | 1 | e normal circun | | | Township: | | | |
| Are Vegetation | | | - | olematic? | / ((| ✓ Yes | □ No | 000111. | Range: | Dir: | | | |
| SUMMARY C | | | y p. o | | | | - 100 | _ , 10 | | i tali igot | | | |
| Hydrophytic \ | | | Yes | | | | | Hydric Soil | Is Present? | Yes | | | |
| Wetland Hydrology Present? | | | Yes | | | Is This Sampling Poir | | | | | etland? Yes | | |
| Remarks: | The sample | point is located in a strip | of quak | king aspen s | wamp tha | t transiti | ons from Willov | w-Carr to up | land forest. | | | | |
| HYDROLOG [*] | Υ | | | | | | | | | | | | |
| | | cators (Check all that ap | naly: Mir | nimum of on | o nrimary | or two se | econdary requi | rod): | | | | | |
| Primary: | • | cators (Oneck all that ap | ppiy, iviii | iiiiiuiii oi oi | e pililary | OI TWO S | econdary requi | ieu). | Secondary: | | | | |
| <u>- 1111a.y.</u> | <u>·</u> A1 - Surface \ | Vater | | | B11 - Salt | Crust | | | | B6 - Surface S | oil Cracks | | |
| ✓ | | | | | B13 - Aqua | | | | | | Vegetated Concave Surface | | |
| ✓ | A3 - Saturatio | | | | C1 - Hydro | | | | | B10 - Drainage | | | |
| | B1 - Water Ma B2 - Sedimen | | | | C2 - Dry S | | ater Table spheres on Living | Poots (not till | | C3 - Oxidized C8 - Crayfish E | Rhizospheres on Living Roots (tilled) | | |
| | B3 - Drift Dep | • | | | | | educed Iron | NOOLS (HOL LIII | , – | • | Note on Aerial Imagery | | |
| | B4 - Algal Mat | | | | C7 - Thin N | | | | _ | D2 - Geomorp | | | |
| | B5 - Iron Depo | | | | Other (Exp | lain) | | | ☑ | D5 - FAC-Neur | | | |
| | | n Visible on Aerial Imagery | | | | | | | | D7 - Frost-Hea | aved Hummocks (LRR F) | | |
| □ B9 - Water-Stained Leaves | | | | | | | | | | | | | |
| Field Observ | vations: | | | | | | | | | | | | |
| Surface Wate | | Yes | Depth: | | (in.) | | | | | | | | |
| | | Yes ☑ | Depth: | | (in.) | | | Wetland F | łydrology l | Present? | Υ | | |
| | | Water Table Present? Yes ☑ Depth: 5 (in.) Saturation Present? Yes ☑ Depth: 0 (in.) | | | | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | | | | | | | | | |
| Describe Rec | orded Data (s | | | | • ` ′ | vactions) | if available: | | | | | | |
| | <u> </u> | tream gauge, monitoring w | vell, aeria | al photos, pr | evious insp | | if available: | | | | | | |
| Describe Reco | <u> </u> | | vell, aeria | al photos, pr | evious insp | | if available: | | | | | | |
| Remarks: | <u> </u> | tream gauge, monitoring w | vell, aeria | al photos, pr | evious insp | | if available: | | | | | | |
| Remarks: SOILS Profile Descri | Soil is satur | tream gauge, monitoring wated at the surface. The value to the depth needed to | vell, aeria | al photos, proble was obs | evious insperved at 5 | inches. | e absence of ir | | | | | | |
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| Remarks: SOILS Profile Descri | Soil is satur | tream gauge, monitoring wated at the surface. The value to the depth needed to etion, RM=Reduced Matrix, CS= | vell, aeria | al photos, proble was obs | evious insperved at 5 | onfirm the | e absence of ir ore Lining, M=Matr | | | | | | |
| Remarks: SOILS Profile Descri (Type: C=Concer | Soil is satur | tream gauge, monitoring wated at the surface. The value to the depth needed to etion, RM=Reduced Matrix, CS= | vell, aeria water ta o docum =Covered | al photos, proble was obs | evious insperved at 5 cator or co | onfirm the | e absence of in ore Lining, M=Matr | rix) | T t | | Damada | | |
| Remarks: SOILS Profile Descri (Type: C=Concer | Soil is satur iption (Descri | tream gauge, monitoring wated at the surface. The value to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) | vell, aeria water ta o docum =Covered | al photos, proble was obs | evious insperved at 5 cator or co | onfirm the | e absence of ir ore Lining, M=Matr | | Texture | | Remarks | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 | Soil is satur iption (Descri | tream gauge, monitoring wated at the surface. The value of the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 | vell, aeria water ta o docum =Covered % 100 | al photos, proble was obs | evious insperved at 5 cator or co | onfirm the | e absence of in ore Lining, M=Matr | rix) | M | | Remarks | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-19 | Soil is satur iption (Descrintration, D=Deple Hue_10YR Hue_10YR | tream gauge, monitoring wated at the surface. The value of the to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 2/1 | water ta o docum =Covered // 100 100 | al photos, proble was obs | evious insperved at 5 cator or co | onfirm the | e absence of in ore Lining, M=Matr | rix) | M MMI | | Remarks | | |
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| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-19 19-25 | Soil is satur iption (Descri ntration, D=Deple Hue_10YR Hue_10YR Hue_10YR | tream gauge, monitoring wated at the surface. The value of the to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 2/1 4/2 | water ta o docum =Covered 100 100 | al photos, proble was observed the indicated Sand Color (| evious insperved at 5 cator or cograins; Loca Moist) | mottle with the second | e absence of in ore Lining, M=Matr es Type | rix) | M MMI | | Remarks | | |
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| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-19 19-25 NRCS Hydr | Soil is satur iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR | tream gauge, monitoring wated at the surface. The value of the total the surface of the total th | water ta o docum Covered 100 100 100 re if indi | al photos, proble was observed the indicated Sand Color (| evious insperved at 5 cator or cograins; Loca Moist) not presenedox Matrix | mottle white white was a second confirm the tion: PL=Pi | e absence of in ore Lining, M=Matr es Type | Location | MMI LFS Indicators f A9 - 1 cm M A16 - Coast | | : Soils ¹ | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-19 19-25 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger | tream gauge, monitoring wated at the surface. The value of the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 2/1 4/2 Indicators (check he dipedon etic of Sulfide | water ta o docum Covered 100 100 100 re if indi | al photos, proble was observed the individual of | erved at 5 cator or co Grains; Loca Moist) not presen edox Matrix Mucky Miner Gleyed Matri | mottle was all | e absence of in ore Lining, M=Matr es Type | Location | MMI LFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F | luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio | : Soils ¹ | | |
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| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-19 19-25 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue | tream gauge, monitoring wated at the surface. The value of the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 2/1 4/2 Indicators (check he dipedon etic on Sulfide Layers (LRR F) ck (LRR FGH) | water ta o docum =Covered 100 100 100 100 100 100 | color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D | erved at 5 cator or co Grains; Loca Moist) oot presen edox Matrix Mucky Miner Bleyed Matri I Matrix ark Surface | mottle which we have all and a second control of the control of th | e absence of in ore Lining, M=Matr es Type | Location | MMI LFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P | luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material | E Soils ¹ 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-154n44w31-I4 | | | | |
|---------------------|---|----------------|-----------------|---------------------------------------|--|--|--|--|--|
| | | | | | - | | | | |
| VEGETATIO | | re non-native | e species.) | | | | | | |
| Tree Stratum | (Plot size: 30 ft. radius) | | | | | | | | |
| | Species Name | <u>% Cover</u> | <u>Dominant</u> | Ind.Status | Dominance Test Worksheet | | | | |
| 1. | Populus tremuloides | 70 | Y | FAC | | | | | |
| 2. | Salix discolor | 3 | N | FACW | Number of Dominant Species that are OBL, FACW, or FAC: (A) | | | | |
| 3. | | | | | | | | | |
| 4. | | | | | Total Number of Dominant Species Across All Strata:(B) | | | | |
| 5. | | | | | | | | | |
| 6. | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B) | | | | |
| 7. | | | | | | | | | |
| 8. | | | | | Prevalence Index Worksheet | | | | |
| 9. | | | | | Total % Cover of: Multiply by: | | | | |
| 10. | | 73 | | | OBL spp. 48 $x 1 = 48$ | | | | |
| Total Cover = | | | | | FACW spp. 53 $X 2 = 106$ | | | | |
| | | | | | FAC spp. $100 	 X 	 3 = 300$ | | | | |
| Sapling/Shrub | Stratum (Plot size: 15 ft. radius) | X. | | | FACU spp. 15 \times $4 = 60$ | | | | |
| 1. | Populus tremuloides | 30 | Υ | FAC | UPL spp. $\underline{15}$ $X 5 = \underline{75}$ | | | | |
| 2. | Cornus rugosa | 15 | Υ | NI | | | | | |
| 3. | Toxicodendron rydbergii | 15 | Υ | FACU | Total <u>231</u> (A) <u>589</u> (B) | | | | |
| 4. | Salix bebbiana | 5 | N | FACW | | | | | |
| 5. | | | | | Prevalence Index = B/A = 2.550 | | | | |
| 6. | | | | | | | | | |
| 7. | | | | | | | | | |
| 8. | | | | | Hydrophytic Vegetation Indicators: | | | | |
| 9. | | | | | Rapid Test for Hydrophytic Vegetation | | | | |
| 10. | | | | | XDominance Test is > 50% | | | | |
| | Total Cover = | = 65 | | | X Prevalence Index is ≤ 3.0 * | | | | |
| | | | | Morphological Adaptations (Explain) * | | | | | |
| Herb Stratum (| Plot size: 5 ft. radius) | | | | Problem Hydrophytic Vegetation (Explain) * | | | | |
| 1. | Carex stricta | 45 | Υ | OBL | | | | | |
| 2. | Phalaris arundinacea | 15 | Υ | FACW | * Indicators of hydric soil and wetland hydrology must be | | | | |
| 3. | Calamagrostis canadensis | 15 | Υ | FACW | present, unless disturbed or problematic. | | | | |
| 4. | Rubus pubescens | 10 | N | FACW | Definitions of Vegetation Strata: | | | | |
| 5. | Symphyotrichum lateriflorum | 5 | N | FACW | | | | | |
| 6 | Caltha palustris | 3 | N | OBL | 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. | | | | |
| 13. | | | | | | | | | |
| 14. | | | | | | | | | |
| 15. | | | | | Woody Vines - All woody vines, regardless of height. | | | | |
| 101 | Total Cover = | = 93 | | | | | | | |
| | 10tal 20001 - | | _ | | | | | | |
| Woody Vine St | tratum (Plot size: 30 ft. radius) | | | | | | | | |
| 1. | ratarr (1 lot 3126. 56 ft. radius) | - | | | | | | | |
| 2. | | | | | | | | | |
| 3. | | | | | Hydrophytic Vegetation Present? Y | | | | |
| 5. | | | | | Trydrophytic vegetation resent: | | | | |
| 4. | | | | | | | | | |
| | Total Cover = | = 0 | | | | | | | |
| Remarks: | | | laver is ni | rimarily qu | aking aspen saplings with round-leaf dogwood and poison-ivy. The ground layer is | | | | |
| ixemarks. | dominated by tussock sedge, reed canary g | | | | laking aspen sapilings with round-lear dogwood and poison-ivy. The ground layer is | | | | |
| | dominated by tussock sedge, reed canary g | jiass, and C | Janaua biu | iejoirit. | | | | | |
| | | | | | | | | | |
| Additional Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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