WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | Date: | 09/26/14 |
|--|---|--|--|--|---|---|--|------------------|--|---|--|
| Applicant: | | | | | | | | | | | Pennington |
| Investigators | | | | Subregion (MLRA or LRR): MLRA 56 | | | | | | State: | MN |
| Soil Unit: | 175A | | | | | I Classification: | | | | | |
| Landform: | Depression | | 40.4 | | ocal Relief: | | | | | Sample Point | w-154n44w19-a1 |
| Slope (%): | 8 - 15% | 1142 41 14 | Latitude: 48.1 | | Longitude | | | Datum: | | | |
| | <u> </u> | nditions on the site | | | ar? (If no, ex | | | | □ No | Section: | |
| Are Vegetati | | | • | | | Are | e normal circum | • | esent? | Township: | |
| Are Vegetati | | | □aturally pro | oblematic? | | | Yes | □ No | | Range: | Dir: |
| SUMMARY (| | | | | | | | | D10 | V | |
| Hydrophytic | | | Yes | | _ | | | Hydric Soil | | | attando Vas |
| | drology Prese | | Yes | a a t a al itla i a | | مرج والمخالف | al automalination | | | t Within A W | |
| Remarks: | | | • | | | | na extending int | o a cattie pa | asture area | that is a fres | h wet meadow. The dominan |
| | • | neadow willow, pra | airie cord gras | ss, and reed | canary gra | SS. | | | | | |
| HYDROLOG | Υ | | | | | | | | | | |
| _ | | icators (Check all | I that apply; M | linimum of o | ne primary | or two s | econdary requii | red): | | | |
| <u>Primary</u> | | | | | | _ | | | Secondary: | | |
| ☐ A1 - Surface Water | | | | | B11 - Salt | | | | | B6 - Surface S | |
| | A2 - High Wa A3 - Saturation | | | | B13 - Aqua C1 - Hydro | | | | | B10 - Sparsely | Vegetated Concave Surface |
| | B1 - Water M | | | | C2 - Dry S | | | | | | Rhizospheres on Living Roots (till |
| | B2 - Sedimen | t Deposits | | | | | spheres on Living | Roots (not tille | | C8 - Crayfish | |
| | B3 - Drift Dep | | | | | | educed Iron | | | | n Visible on Aerial Imagery |
| | B4 - Algal Ma | | | | C7 - Thin N | | ace | | | D2 - Geomorp | |
| | B5 - Iron Dep | osits on Visible on Aerial Im | nagery | Ц | Other (Exp | piain) | | | | D5 - FAC-Neu | itrai Test aved Hummocks (LRR F) |
| | | tained Leaves | lagery | | | | | | _ | D1 - 1 103t-116 | aved Hammocks (ERRY) |
| | | | | | | | | | | | |
| Field Obser | vations: | | | | | | | | | | |
| Surface Wat | er Present? | Yes □ | Deptl | ո: | (in.) | | | | | | V |
| Water Table | | Yes | Depti | | – (in.) | | | Wetland H | lydrology l | Present? | Υ |
| Saturation P | | Yes □ | Depti | | – (in.) | | | | | | _ |
| | | | | | (' ' ' ' ' | | | | | | |
| Doscribo Boo | earded Data (| stroom gougo moni | <u> </u> | | | octions) | if available: | | | | |
| | | stream gauge, moni | itoring well, ae | rial photos, p | revious insp | | | dua mba dia ara | antation on | d londoon o | n a citie n |
| Describe Rec Remarks: | | stream gauge, moni hydrology indicato | itoring well, ae | rial photos, p | revious insp | | | drophytic ve | getation an | d landscape | position. |
| Remarks: | | | itoring well, ae | rial photos, p | revious insp | | | drophytic ve | getation an | d landscape | position. |
| Remarks: | No primary | hydrology indicato | itoring well, ae | rial photos, p t. Wetland h | revious insp ydrology is | assume | ed based on hyd | | getation an | d landscape | position. |
| Remarks: SOILS Profile Descr | No primary | hydrology indicato | itoring well, ae | rial photos, p | revious insp ydrology is icator or co | assume | ed based on hyd | dicators.) | getation an | d landscape | position. |
| Remarks: SOILS Profile Descr | No primary | hydrology indicato | itoring well, ae | rial photos, p | revious insp ydrology is icator or co | assume | ed based on hyd | dicators.) | getation an | d landscape | position. |
| Remarks: SOILS Profile Descr | No primary | hydrology indicato | itoring well, ae | rial photos, p | revious insp ydrology is icator or co | assume | ed based on hyd e absence of in fore Lining, M=Matr | dicators.) | getation an | d landscape | position. |
| Remarks: SOILS Profile Descr (Type: C=Concer | No primary | hydrology indicato ibe to the depth ne etion, RM=Reduced Ma | itoring well, ae | rial photos, p it. Wetland h ment the inded/Coated Sand | revious insp ydrology is icator or co | onfirm th | ed based on hyd e absence of in fore Lining, M=Matr | dicators.) | getation and | d landscape | position. Remarks |
| Remarks: SOILS Profile Descr | No primary | hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix | itoring well, ae ors are preser eeded to docu atrix, CS=Covere | rial photos, p it. Wetland h ment the inded/Coated Sand | revious insp ydrology is icator or co Grains; Loca | onfirm th | ed based on hydele absence of in Fore Lining, M=Matr | dicators.) | | d landscape | |
| Remarks: SOILS Profile Descr (Type: C=Concer | No primary | hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix | itoring well, ae ors are preser eeded to docu atrix, CS=Covere | rial photos, p it. Wetland h ment the inded/Coated Sand | revious insp ydrology is icator or co Grains; Loca | onfirm th | ed based on hydele absence of in Fore Lining, M=Matr | dicators.) | | d landscape | |
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| Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) | No primary | hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) | itoring well, ae ors are preser eeded to docu atrix, CS=Covere | rial photos, p It. Wetland h ment the inced/Coated Sand Color | revious insp ydrology is icator or co Grains; Loca (Moist) | onfirm the | ed based on hydee absence of in Fore Lining, M=Matr es Type | dicators.) | | d landscape | |
| Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) | No primary | hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) | itoring well, ae ors are preser eeded to docu atrix, CS=Covere | rial photos, p It. Wetland h ment the inced/Coated Sand Color | revious insp ydrology is icator or co Grains; Loca (Moist) | onfirm the | ed based on hydele absence of in Fore Lining, M=Matr | dicators.) | Texture | | Remarks |
| Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) | iption (Descr ntration, D=Depl | hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) | itoring well, ae ors are preser eeded to docu atrix, CS=Covere | rial photos, p It. Wetland h ment the inced/Coated Sand Color dicators are | revious insp ydrology is icator or co Grains; Loca (Moist) not presen | onfirm the | ed based on hydee absence of in Fore Lining, M=Matr es Type | Location | Texture Indicators f | or Problemati | Remarks |
| Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) | iption (Descr ntration, D=Depl ric Soil Field | hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch | itoring well, ae ors are preser eeded to docu atrix, CS=Covere | rial photos, p t. Wetland h ment the inced/Coated Sand Color dicators are S5 - Sandy I | revious insp ydrology is icator or co Grains; Loca (Moist) not present | onfirm the | ed based on hydee absence of in Fore Lining, M=Matr es Type | Location | Texture Indicators f A9 - 1 cm M | or Problemati | Remarks |
| Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) | iption (Descr ntration, D=Depl | hydrology indicato ibe to the depth neetion, RM=Reduced Ma Matrix Color (Moist) Indicators (chapipedon | itoring well, ae ors are preser eeded to docu atrix, CS=Covere | rial photos, p It. Wetland h ment the inced/Coated Sand Color dicators are S5 - Sandy I S6 - Strippe | revious insp ydrology is icator or co Grains; Loca (Moist) not present | onfirm the tion: PL=P Mottl % at): | ed based on hydee absence of in Fore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast | or Problemati luck (LRR I, J) Prairie Redox | Remarks c Soils ¹ (LRR F, G, H) |
| Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) | iption (Descr ntration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep | hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch | itoring well, ae ors are preser eeded to docu atrix, CS=Covere | rial photos, p t. Wetland h ment the inced/Coated Sand Color dicators are S5 - Sandy I | revious insp ydrology is icator or co Grains; Loca (Moist) not present Redox d Matrix Mucky Miner | onfirm the tion: PL=P Mottl % at): | ed based on hydee absence of in Fore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St | or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) | Remarks c Soils ¹ (LRR F, G, H) |
| Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) | iption (Descr ntration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified | hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch | itoring well, ae ors are preser eeded to docu atrix, CS=Covere | rial photos, p It. Wetland h ment the inced/Coated Sand Color dicators are S5 - Sandy I S6 - Stripper F1 - Loamy F2 - Loamy F3 - Deplete | revious insp ydrology is icator or co Grains; Loca (Moist) not present Redox d Matrix Mucky Miner Gleyed Matrix d Matrix | onfirm the tion: PL=P Mottl % at): | ed based on hydee absence of in Fore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce | or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi | Remarks c Soils ¹ (LRR F, G, H) |
| Remarks: SOILS Profile Descr (Type: C=Concel Depth (In.) | iption (Descr ntration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu | hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch | itoring well, ae preser eeded to document in the control of the co | rial photos, p ot. Wetland h ment the inced/Coated Sand Color dicators are S5 - Sandy I S6 - Stripper F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox I | revious insp ydrology is icator or co Grains; Loca (Moist) not present Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface | onfirm the tion: PL=P Mottl % tt): | ed based on hydee absence of in Fore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P | or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic Parent 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-154n44w19-a1 | | | | |
|---------------------|--|--------------|-----------------|-------------|--|--|--|--|--|
| | | | | | | | | | |
| VEGETATIO | N (Species identified in all uppercase are | e non-native | species.) | | | | | | |
| Tree Stratum | (Plot size: 30 ft. radius) | | | | | | | | |
| | <u>Species Name</u> | % Cover | Dominant | Ind.Status | Dominance Test Worksheet | | | | |
| 1. | Populus tremuloides | 10 | Y | FAC | | | | | |
| 2. | | | | | Number of Dominant Species that are OBL, FACW, or FAC:6(A) | | | | |
| 3. | | | | | | | | | |
| 4. | | | | | Total Number of Dominant Species Across All Strata: 6 (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 spp. $\frac{45}{45}$ $\times 1 = \frac{45}{45}$ | | | | |
| | Total Cover = | 10 | | | OBL spp. 45 | | | | |
| | - | | | | FAC spp. $\frac{15}{15}$ $\times 3 = \frac{45}{15}$ | | | | |
| Sapling/Shrub | Stratum (Plot size: 15 ft. radius) | | | | FACU spp. $0 	 x 	 4 = 0$ | | | | |
| 1. | Salix interior | 20 | Υ | FACW | UPL spp. $0 \times 5 = 0$ | | | | |
| 2. | Salix petiolaris | 20 | Υ | OBL | ··· | | | | |
| 3. | Salix serissima | 5 | N | OBL | Total 135 (A) 240 (B) | | | | |
| 4. | Salix discolor | <u>5</u> | N | FACW | | | | | |
| 5. | Sainx discolor | | | 171011 | Prevalence Index = B/A = 1.778 | | | | |
| 6. | | | | | 110 valence mack = 5/7 = 1770 | | | | |
| 7. | | | | | | | | | |
| 8. | | | | | Hydrophytic Vegetation Indicators: | | | | |
| 9. | | | | | Rapid Test for Hydrophytic Vegetation | | | | |
| 10. | | | | | X Dominance Test is > 50% | | | | |
| 10. | | 50 | | | X Prevalence Index is ≤ 3.0 * | | | | |
| | Total Cover = | 30 | | | | | | | |
| Llank Otration | (Diet einer Ett verlige) | | | | Morphological Adaptations (Explain) * | | | | |
| | (Plot size: 5 ft. radius) | 0.5 | | EAC\A/ | Problem Hydrophytic Vegetation (Explain) * | | | | |
| 1. | Spartina pectinata | 25 | Y | FACW | * Indicators of hydric soil and watland hydrology must be | | | | |
| 2. | Carex pellita | 20 | <u> </u> | OBL | * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | | | | |
| 3. | Phalaris arundinacea | 20 | Y | FACW | · | | | | |
| 4. | Solidago gigantea | 5 | N | FAC | Definitions of Vegetation Strata: | | | | |
| 5. | Agrostis gigantea | 5 | N | FACW | <u>_</u> | | | | |
| 6 | | | | | 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. | | | | |
| | Total Cover = | 75 | | | | | | | |
| | · | | | | | | | | |
| Woody Vine S | tratum (Plot size: 30 ft. radius) | | | | | | | | |
| 1. | | | | | | | | | |
| 2. | | | | | | | | | |
| 3. | | | | | Hydrophytic Vegetation Present? Y | | | | |
| 5. | | | | | | | | | |
| 4. | | | | | | | | | |
| | Total Cover = | 0 | | | | | | | |
| Remarks: | | | shrub lave | r and prair | ie cord grass, woolly sedge, and reed canary grass in the ground layer. | | | | |
| - Comanici | The relate regulation is definitated by time | | orn dio layor | i and pran | ie dera grade, ween, deage, and reed danaly grade in the greatia layer. | | | | |
| | | | | | | | | | |
| A -1-1144 | D - m - ml | | | | | | | | |
| Additional Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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