WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | | Date: | <u>08/25/14</u> |
|--|--|---|--|---|---|--|--|---|-----------------------------|---|--|--|
| Applicant: Investigators | | | | | | | | County: State: | Marshall MN | | | |
| Soil Unit: | I16F IIICK OF LKK). INLKA OF LKK). INLKA OF LKK). | | | | | | | | | | | |
| Landform: | Floodplain Local Relief: CL | | | | | | | | Sample Point | w-155n45w28-b2 | | |
| Slope (%): | 0 - 2% | nditions on the site | Latitude: 48 | | | Longitude: | | | <u>Datum:</u> ☑ Yes | □ No | | |
| Are Vegetation | • • | □, or Hydrology | | | | II : (If no, exp | | e normal circum | | | Township: | |
| 0 | | ⊠, or Hydrology | • | | | | 7.10 | ✓ Yes | | 000111 | Range: | Dir: |
| SUMMARY C | | · · · · | ý | I | | | | | | | 0 | |
| Hydrophytic | • | | Ye | | | | | | | ls Present? | | |
| Wetland Hyd | | | Ye | | | h of the C | | ver The seiler | | | nt Within A W | |
| Remarks: The wetland is a floodplain forest around the south branch of the Snake River. The soils are naturally problematic due to their association with the river. All parameters of wetland conditions are met. | | | | | | | | | | | | |
| HYDROLOG | • | | | Ει . | | | | | | | | |
| | | icators (Check all | that apply | /· Mini | imum of on | e nrimarv | or two se | econdary requir | red)• | | | |
| Primary | ••• | | that apply | , wiii ii | | e primary | | econdary requi | eu). | Secondary: | | |
| | A1 - Surface \ | | | | | B11 - Salt (| | | | | B6 - Surface S | |
| | A2 - High Wat A3 - Saturatio | | | | | B13 - Aqua C1 - Hydro | | | | | B8 - Sparsely B10 - Drainage | Vegetated Concave Surface e Patterns |
| | B1 - Water Ma | arks | | | | C2 - Dry Se | eason Wa | ter Table | | | C3 - Oxidized | Rhizospheres on Living Roots (tilled) |
| | B2 - Sedimen B3 - Drift Dep | • | | | | C3 - Oxidiz C4 - Prese | | spheres on Living | Roots (not till | є 🗆 | C8 - Crayfish I | Burrows n Visible on Aerial Imagery |
| | B4 - Algal Mat | | | | | C7 - Thin M | | | | | D2 - Geomorp | |
| | B5 - Iron Depo | | | | | Other (Exp | lain) | | | | D5 - FAC-Neu | |
| | B7 - Inundatio B9 - Water-St | n Visible on Aerial Im ained Leaves | lagery | | | | | | | L | D7 - Frost-Hea | aved Hummocks (LRR F) |
| | | | | | | | | | | | | |
| Field Observ | Field Observations: | | | | | | | | | | | |
| Surface Wat | | | | epth: | | (in.) | | | Wetland H | lydrology | Present? | Y |
| Water Table | | Yes | | epth: | | (in.) (in.) | | | | , | | |
| Saturation Present? Yes Depth: (in.) | | | | | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The area would hold flood water during spring flood events, and vegetation passes the FAC-Neutral test. | | | | | | | | | | | | |
| | | | - | | | - | - | | C-Neutral t | ost | | |
| Remarks: | | | - | | | - | - | | C-Neutral t | est. | | |
| Remarks: SOILS | The area wo | ould hold flood wat | ter during s | spring | g flood ever | its, and ve | getation | passes the FA | | est. | | |
| Remarks: SOILS Profile Descri | The area wo | be to the depth ne | ter during s | spring | g flood ever | nts, and ve | egetation | passes the FA | dicators.) | est. | | |
| Remarks: SOILS Profile Descri | The area wo | ould hold flood wat | ter during s | spring | g flood ever | nts, and ve | egetation | passes the FA | dicators.) | est. | | |
| Remarks: SOILS Profile Descri (Type: C=Concer | The area wo | be to the depth ne | ter during s | spring | g flood ever | nts, and ve | egetation | passes the FA e absence of in pre Lining, M=Matri | dicators.) | est. | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) | The area wo | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) | ter during s eded to do atrix, CS=Cov | spring ocume vered/C | g flood ever | ats, and ve cator or co Grains; Locat | egetation onfirm the ion: PL=Pc | passes the FA e absence of in pre Lining, M=Matri | dicators.) | est. Texture | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 | The area wo | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 4/1 | ter during s eeded to do atrix, CS=Cov | spring ocume vered/0 % 80 | g flood ever ent the indic Coated Sand C | ats, and ve cator or co Grains; Locat | egetation onfirm the ion: PL=Po Mottle | passes the FA | dicators.) ^{x)} | Texture SI | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 0-7 | The area wo | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 4/1 5/2 | ter during seded to do atrix, CS=Cov | spring ocume vered/0 % 80 20 | g flood ever ent the indic Coated Sand C | ats, and ve cator or co Grains; Locat | egetation onfirm the ion: PL=Po Mottle | passes the FA | dicators.) ^{x)} | Texture SI VFS | in thin horizontal | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 0-7 7-21 | The area wo iption (Descrintration, D=Deple Hue_10YR Hue_2.5Y Hue_10YR | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 4/1 5/2 4/1 | ter during s eeded to do atrix, CS=Cov | spring ocume vered/C % 80 20 80 | g flood ever ent the indic Coated Sand C Color (N | ats, and ve cator or co Grains; Locat Moist) | egetation onfirm the ion: PL=Po Mottle % | passes the FA e absence of in pre Lining, M=Matri es Type | dicators.) x) Location | Texture SI VFS SI | | bands |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 0-7 | The area wo | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 4/1 5/2 | ter during s eeded to do atrix, CS=Cov | spring ocume vered/C % 80 20 80 | g flood ever ent the indic Coated Sand C | ats, and ve cator or co Grains; Locat Moist) | egetation onfirm the ion: PL=Po Mottle | passes the FA | dicators.) ^{x)} | Texture SI VFS | | |
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| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 0-7 7-21 7-21 7-21 NRCS Hydr | The area wo | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 4/1 5/2 4/1 5/2 Indicators (ch | ter during seded to do atrix, CS=Cov | spring ocume vered/C % 80 20 80 10 10 f indic | ent the indic Coated Sand C Color (N Hue_10YR cators are n S5 - Sandy Re S6 - Stripped | ats, and ve cator or co Grains; Locat Moist) 3/3 ot present edox Matrix | egetation onfirm the ion: PL=Po Mottle % | passes the FA e absence of in pre Lining, M=Matri es Type | dicators.) x) Location M | Texture SI VFS SI VFS I Minicators f A9 - 1 cm M A16 - Coast | in thin horizontal | bands bands; redox conc assoc. with sand <u>c Soils¹</u> (LRR F, G, H) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 0-7 7-21 7-21 NRCS Hydr | The area works in the area works in the intervention (Description (Description), D=Depletion (Description), D=Depletion (Description), D=Depletion, | be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 4/1 5/2 4/1 5/2 1ndicators (ch | ter during seeded to do atrix, CS=Cov | spring ocume vered/C % 80 20 80 10 10 10 10 10 10 5 5 5 5 5 5 5 5 5 5 | ent the indic Coated Sand C Color (N Hue_10YR Hue_10YR Cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G | ats, and ve cator or co Grains; Locat Moist) 3/3 ot present edox Matrix lucky Minera leyed Matrix | egetation onfirm the ion: PL=Po Mottle % | passes the FA e absence of in pre Lining, M=Matri es Type | dicators.) ×) Location M | Texture SI VFS SI VFS <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F | in thin horizontal f or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi | bands bands; redox conc assoc. with sand <u>c Soils¹</u> (LRR F, G, H) |
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WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | L3R | | | | Sample Point: w-155n45w28-b2 |
|----------------|--|----------------|-----------------|------------|---|
| - | | | | | |
| VEGETATIO | N (Species identified in all uppercase a | re non-native | species.) | | |
| Tree Stratum | (Plot size: 30 ft. radius) | | | | |
| | <u>Species Name</u> | <u>% Cover</u> | Dominant | Ind.Status | Dominance Test Worksheet |
| 1. | Salix amygdaloides | 50 | Y | FACW | |
| 2. | Acer negundo | 45 | Y | FAC | Number of Dominant Species that are OBL, FACW, or FAC: <u>5</u> (A) |
| 3. | | | | | |
| 4. | | | | | Total Number of Dominant Species Across All Strata:5(B) |
| 5. | | | | | |
| 6. | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) |
| 7. | | | | | |
| 8. | | | | | Prevalence Index Worksheet |
| 9. | | | | | Total % Cover of: Multiply by: |
| 10. | | | | | OBL spp |
| | Total Cover = | 95 | | | FACW spp. 53 X 2 = 106 |
| | | | | | FAC spp. 95 X $3 = 285$ |
| Sapling/Shrub | Stratum (Plot size: 15 ft. radius) | | | | FACU spp. 8 x 4 = 32 |
| 1. | Acer negundo | 5 | Y | FAC | UPL spp. 0 $x 5 = 0$ |
| 2. | | | | | |
| 3. | | | | | Total 156 (A) 423 (B) |
| 4. | | | | | |
| 5. | | | | | Prevalence Index = $B/A = 2.712$ |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | Hydrophytic Vegetation Indicators: |
| 9. | | | | | Rapid Test for Hydrophytic Vegetation |
| 10. | | | | | X Dominance Test is > 50% |
| | Total Cover = | 5 | | | X Prevalence Index is ≤ 3.0 * |
| | | | | | Morphological Adaptations (Explain) * |
| Herb Stratum (| Plot size: 5 ft. radius) | | | | Problem Hydrophytic Vegetation (Explain) * |
| 1. | Elymus wiegandii | 20 | Y | FAC | |
| 2. | Rudbeckia laciniata | 20 | Y | FAC | * Indicators of hydric soil and wetland hydrology must be |
| 3. | Arctium minus | 5 | N | FACU | present, unless disturbed or problematic. |
| 4. | Plantago major | 5 | N | FAC | Definitions of Vegetation Strata: |
| 5. | Bromus latiglumis | 3 | N | FACW | Deminione et Vegetation etrata. |
| 6 | Hackelia virginiana | 3 | N | FACU | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast |
| 7. | | 5 | | 1700 | height (DBH), regardless of height. |
| 8. | | | | | |
| 9. | | | | | Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. |
| 10. | <u> </u> | | | | |
| 11. | <u> </u> | | | | |
| 12. | | | | | Herb - All herbaceous (non-woody) plants, regardless of size. |
| | | | | | |
| 13. 14. | | | | | |
| | | | | | Woody Vines - All woody vines, regardless of height. |
| 15. | Tatal Of | F 0 | | | WOODY VILLES - All WOODY VILLES, regardless of height. |
| | Total Cover = | 56 | | | |
| | | | | | |
| Woody Vine St | tratum (Plot size: 30 ft. radius) | | | | |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | Hydrophytic Vegetation Present? Y |
| 5. | 1 | | | | |
| 4. | | | | | |
| | Total Cover = | | | | |
| Remarks: | A floodplain forest community dominated by | peach-leaf | r willow and | d pox elde | er with a sparse herbaceous community. |
| | | | | | |
| | | | | | |
| Additional F | Remarks: | | | | |
| | | | | | |
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