WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | Date: | 08/23/14 | |
|---|--|---|---|--|--|---|--|-----------------|--|--|--|--|
| Applicant: | | | | | 0 | /N 41 D / | County: | Pennington | | | | |
| Investigators | | BEH/RAJ | | | Subregio | ` | A or LRR): | MLRA 56 | | State: | MN | |
| Soil Unit: | I11A Din | | | _ | ool Doliof: | | I Classification | PEMCa | | Comple Deint | 11 154m44w49 d4 | |
| Landform: | Dip 0 - 2% | Latituda | . 10 15 | 789261 | cal Relief: Longitude: | | 144867 | Datum: | | Sample Point: | u-154n44w18-d1 | |
| Slope (%): | | nditions on the site typica | | | | | | ✓ Ves | □ No | Section: | | |
| Are Vegetation | | | | disturbed? | ti: (ii no, ex | 1 | e normal circun | | | 1 | | |
| Are Vegetation | | | • | blematic? | | Air | e normai circuii ☑ Yes | □ No | esent: | Township: | Dir: | |
| SUMMARY C | | | ally proi | biematic: | | | <u> </u> | □ 1 10 | | Range: | DII. | |
| | | | No | | | | | Hydric Soi | Is Present? | No | | |
| Hydrophytic Vegetation Present? Wetland Hydrology Present? | | | No | | | | | | | t Within A W | etland? No | |
| Remarks: | | | | weedy wheat | field Nei | ther hyd | rology soils no | | | | | |
| Remarks: The site is a mapped NWI polygon within a weedy wheat field. Neither hydrology, soils nor vegetation support the site's being a wetland. | | | | | | | | | | | | |
| HYDROLOG' | Υ | | | | | | | | | | | |
| | | icators (Chack all that an | ndy: Mi | nimum of on | o primary | or two c | ocondory roqui | rod\. | | | | |
| Primary: | • | icators (Check all that ap | ppiy, iviii | nimum of on | e primary | or two s | econdary requi | red): | Secondary: | | | |
| | <u>·</u> | Water | | | B11 - Salt | Crust | | | | B6 - Surface S | oil Cracks | |
| | A2 - High Wat | ter Table | | | B13 - Aqua | | l | | | | Vegetated Concave Surface | |
| | A3 - Saturatio | | | | C1 - Hydro | | | | | B10 - Drainage | | |
| | B1 - Water Ma | | | | C2 - Dry S | | | Deate (set till | | | Rhizospheres on Living Roots (tilled) | |
| | □ B2 - Sediment Deposits □ C3 - Oxidized Rhizospheres on Living Roots (not tills □ C8 - Crayfish Burrows □ C4 Proposes of Reduced Iron | | | | | | | | | | | |
| □ B3 - Drift Deposits □ C4 - Presence of Reduced Iron □ C9 - Saturation Visible on Aerial Imagery □ B4 - Algal Mat or Crust □ C7 - Thin Muck Surface □ D2 - Geomorphic Position | | | | | | | | | | | | |
| | B5 - Iron Depo | osits | | | Other (Exp | | | | | D5 - FAC-Neut | | |
| | | n Visible on Aerial Imagery | | | | | | | | D7 - Frost-Hea | aved Hummocks (LRR F) | |
| | B9 - Water-St | ained Leaves | | | | | | | | | | |
| Field Observ | votiona | | | | | | | | | | | |
| Field Observ | | | 5 (1 | | (:) | | | | | | | |
| Surface Water | | Yes | Depth: | | (in.) | | | Wetland F | Hydrology I | Present? | N | |
| Water Table | | Yes | Depth: | | (in.) | | | | | | | |
| Saturation Present? Yes Depth: (in.) | | | | | | | | | | | | |
| | | | | | ` ` ´ | | | | | | | |
| Describe Reco | orded Data (s | stream gauge, monitoring w | | | ` ` ´ | ections), | if available: | | | | | |
| Describe Reco | · | | /ell, aeri | al photos, pre | evious insp | | | erved. | | | | |
| Remarks: | · | tream gauge, monitoring w | /ell, aeri | al photos, pre | evious insp | | | erved. | | | | |
| Remarks: | The site is in | stream gauge, monitoring wan a geomorphic landscap | vell, aeri e positi | al photos, pre on; no other | evious insp hydrologi | cal indic | ators were obse | | | | | |
| Remarks: SOILS Profile Descri | The site is in | stream gauge, monitoring wan a geomorphic landscap | vell, aeri e positi | al photos, preon; no other | hydrologicator or co | cal indication | ators were obse | ndicators.) | | | | |
| Remarks: SOILS Profile Descri | The site is in | stream gauge, monitoring wan a geomorphic landscap | vell, aeri e positi | al photos, preon; no other | hydrologicator or co | cal indication | ators were obse | ndicators.) | | | | |
| Remarks: SOILS Profile Descri | The site is in | stream gauge, monitoring we a geomorphic landscap be to the depth needed to etion, RM=Reduced Matrix, CS= | vell, aeri e positi | al photos, preon; no other | hydrologicator or co | onfirm th | ators were obse e absence of in ore Lining, M=Matr | ndicators.) | | | | |
| Remarks: SOILS Profile Descri (Type: C=Concer | The site is in | etream gauge, monitoring went a geomorphic landscap be to the depth needed to etion, RM=Reduced Matrix, CS= | vell, aeri e positi o docun =Covered | on; no other | hydrologicator or co | onfirm th | e absence of interest of interest of the control of | ndicators.) | Texture | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer | The site is in interest in tration, D=Deple | tream gauge, monitoring we a geomorphic landscap be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) | vell, aeri e positi o docun =Covered | al photos, preon; no other | hydrologicator or co | onfirm th | ators were obse e absence of in ore Lining, M=Matr | ndicators.) | Texture | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 | The site is in intration (Description (Description), D=Deplementation, D=Deplementat | be to the depth needed to the detion, RM=Reduced Matrix Color (Moist) 2/1 | vell, aeri e positi o docun =Covered % 100 | nent the indicated Sand Color (I | hydrologicator or co Grains; Loca | onfirm th | e absence of in ore Lining, M=Matrees | dicators.) | SCL | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer | The site is in interest in tration, D=Deple | be to the depth needed to the detion, RM=Reduced Matrix Color (Moist) 2/1 | vell, aeri e positi o docun =Covered | nent the indicated Sand Color (Indicated San | evious insp hydrologic cator or co Grains; Loca Moist) | onfirm th | e absence of interest control of the | Location | SCL LS | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 | The site is in intration (Description (Description), D=Deplementation, D=Deplementat | be to the depth needed to the detion, RM=Reduced Matrix Color (Moist) 2/1 | vell, aeri e positi o docun =Covered % 100 | nent the indicated Sand Color (I | evious insp hydrologic cator or co Grains; Loca Moist) | onfirm th | e absence of in ore Lining, M=Matrees | dicators.) | SCL | | Remarks | |
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| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-21 | The site is in intration (Description (Description), D=Deplementation, D=Deplementat | be to the depth needed to etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 | vell, aeri e positi o docun =Covered % 100 97 | cal photos, preson; no other ment the indicated Sand Color (Indicated Sand Color (Indica | evious insp hydrologic cator or co Grains; Loca Moist) | onfirm the tion: PL=P | e absence of interest Lining, M=Matro | Location | SCL LS | | Remarks | |
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| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-21 NRCS Hydr | The site is in intration (Description (Description), D=Deplementation, D=Deplementat | be to the depth needed to etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 | /ell, aeri e positi o docun =Covered 100 97 re if ind | con; no other nent the indicated Sand Color (Inc.) Hue_10YR Hue_10YR Hue_10YR | evious insp hydrologic cator or co Grains; Loca Moist) 3/3 5/6 | onfirm the tion: PL=P | e absence of interest Lining, M=Matro | Location M M | SCL LS LS | or Problematic | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-21 NRCS Hydr | The site is in intration (Description (Description), D=Deplementation, D=Deplementat | be to the depth needed to etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 Indicators (check he | /ell, aeri e positi o docun =Covered 100 97 re if ind | con; no other nent the indication of the second of the se | evious inspectator or control of | onfirm the tion: PL=P | e absence of interest Lining, M=Matro | Location M M | LS LS Indicators f | uck (LRR I, J) | c Soils ¹ | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-21 NRCS Hydr | The site is in intration (Description (Description), D=Deplementation, D=Deplementat | be to the depth needed to etion, RM=Reduced Matrix. Color (Moist) 2/1 3/1 Indicators (check he ipedon | /ell, aeri e positi c docun =Covered % 100 97 re if ind | cal photos, preson; no other nent the indication of the second of the s | hydrologicator or constants; Local Moist) 3/3 5/6 not presented ox Matrix | onfirm the tion: PL=P Mottl % 2 1 t): | e absence of interest Lining, M=Matro | Location M M | Indicators f A9 - 1 cm M A16 - Coast | | c Soils ¹ | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-21 NRCS Hydr | The site is in intration (Description (Description), D=Deplementation, D=Deplementat | be to the depth needed to etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 Indicators (check he ipedon stice in Sulfide | /ell, aeri e positi c docun =Covered //ell, aeri e positi //ell, aeri //ell, | con; no other nent the indication of the second of the se | hydrologicator or constants; Local Moist) 3/3 5/6 not presented with the constant in the con | onfirm the tion: PL=P Mottl % 2 1 t): | e absence of interest Lining, M=Matro | Location M M | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F | uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio | c Soils ¹ | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-21 NRCS Hydr | The site is in intration (Description (Description), D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified | be to the depth needed to etion, RM=Reduced Matrix. Color (Moist) 2/1 3/1 Indicators (check he ipedon stic on Sulfide Layers (LRR F) | /ell, aeri e positi o docun =Covered 100 97 re if ind | con; no other nent the india Coated Sand | evious inspendence of presented ox Matrix lucky Miner leyed Matrix Matrix | onfirm the tion: PL=P Mottl % 1 t): | e absence of interest Lining, M=Matro | Location M M | 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 Depression eed Vertic | Soils ¹ LRR F, G, H) | |
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WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | L3R | | | | Sample Point: u-154n44w18-d1 | | | | |
|---------------------|--|--------------|-----------------|------------|--|--|--|--|--|
| | | | | | - | | | | |
| VEGETATIO | N (Species identified in all uppercase are | 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:1 (A) | | | | |
| 3. | | | | | | | | | |
| 4. | | | | | Total Number of Dominant Species Across All Strata:(B) | | | | |
| 5. | | | | | | | | | |
| 6. | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B) | | | | |
| 7. | | | | | | | | | |
| 8. | | | | | Prevalence Index Worksheet | | | | |
| 9. | | | | | Total % Cover of: Multiply by: | | | | |
| 10. | | | | | OBL spp. $0 \times 1 = 0$ | | | | |
| | Total Cover = 0 | | | | OBL spp. 0 | | | | |
| | | | | | FAC spp. $\frac{40}{}$ $x 3 = \frac{120}{}$ | | | | |
| Sapling/Shrub S | Stratum (Plot size: 15 ft. radius) | | | | FACU spp. 35 $x 4 = 140$ | | | | |
| 1. | | | | | UPL spp. ${55}$ $\times 5 = {275}$ | | | | |
| 2. | | | | | ··· ——— | | | | |
| 3. | | | | | Total 140 (A) 555 (B) | | | | |
| 4. | | | | | (=) | | | | |
| 5. | | | | | Prevalence Index = B/A = 3.964 | | | | |
| 6. | | | | | Trevalence mack = B//(= 0.504 | | | | |
| 7. | | | | | | | | | |
| 8. | | | | | Hydrophytic Vegetation Indicators: | | | | |
| 9. | | | | | | | | | |
| 10. | | | | | Rapid Test for Hydrophytic Vegetation | | | | |
| 10. | Total Cover | 0 | | | 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. | Triticum aestivum | 55 | Υ | NI_ | | | | | |
| 2. | Plantago major | 35 | Υ | FAC | * Indicators of hydric soil and wetland hydrology must be | | | | |
| 3. | Ambrosia artemisiifolia | 20 | N | FACU | present, unless disturbed or problematic. | | | | |
| 4. | Setaria pumila | 10 | N | FACU | Definitions of Vegetation Strata: | | | | |
| 5. | Elymus repens | 5 | N | FACU | | | | | |
| 6 | Panicum capillare | 5 | N | FAC | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast | | | | |
| 7. | Persicaria maculosa | 5 | N | FACW | height (DBH), regardless of height. | | | | |
| 8. | Agrostis gigantea | 5 | N | FACW | | | | | |
| 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 = | 140 | | | | | | | |
| | | 1 10 | _ | | | | | | |
| Woody Vine St | ratum (Plot size: 30 ft. radius) | | | | | | | | |
| 1. | ratam (Flot size: 50 ft. radius) | | | | | | | | |
| 2. | | | | | | | | | |
| 3. | | | | _ | Hydrophytic Vegetation Present? N | | | | |
| 5. | | | | | Trydrophytic vegetation Fresent: | | | | |
| 4. | | | | | | | | | |
| 4. | Total Cover = | 0 | | | | | | | |
| Domorko | | | plantain | | | | | | |
| Remarks: | The site is dominated by cultivated wheat an | a common | piantain. | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Additional Remarks: | | | | | | | | | |
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