## WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: L3R   |   |   |  |  |  |  |   |                 |   | Date:  | 06/27/14  |                  |  |
|---|---|---|--|--|--|--|---|-----------------|---|--|---|------------------|--|
| Applicant:  |   |   |  |  |  |  |   |                 |   | County:  | Kittson   |                  |  |
| Investigators: BCS/BEH  |   |   |  | Subregion (MLRA or LR  |  |  |   | MLRA 56         |   | State:   | MN  |                  |  |
| Soil Unit:  | 1248A   |   |  |  |  |  | lassification:                          |                 |   |  |   |                  |  |
|   | Talf  |   |  |  | ocal Relief:   |  |   |                 |   | Sample Point   | u-160n50w10-d1  |                  |  |
|   | 0 - 2%  |   | Latitude: 48.68  |  |  | -97.09268  |   | Datum:          |   |  |   |                  |  |
|   |   | nditions on the site  |  |  | ar? (If no, exp  |  | i) ormal circun                         |                 | No No   | Section:   |   |                  |  |
| Are Vegetation  |   | C or Hydrology  |  |  |  | Areno  | ormai circun<br>⊡ Yes                   |                 | esent?  | Township:  | Dim   |                  |  |
| SUMMARY C   |   | G or Hydrology  |  | DDIematic?   |  |  | E les                                   |                 |   | Range:   | Dir:  |                  |  |
|   |   |   | No   |  |  |  |   | Hydria Soil     | la Procont?   | No   |   |                  |  |
| Hydrophytic Vegetation Present?<br>Wetland Hydrology Present?   |   |   | No   | No   |  |  | Hydric Soils Present?                   |                 |   | nt Within A Wetland? No  |   |                  |  |
| Remarks:  | The upland  | sample point is loc   |  | P field adiac  | ent to a gra   | avel countv  | road The v                              | egetation is    | dominated   | by big bluest  | tem and switchgrass   | 3                |  |
| r tomanto.  | ino aplana  |   |  | r nora adjao   | one to a gre   |  |   | ogotation lo    | dominator   |  |   |                  |  |
| HYDROLOG  | Y   |   |  |  |  |  |   |                 |   |  |   |                  |  |
|   |   | icators (Chock all  | that apply: M  | inimum of or   | o primonu  | or two soor  | ondon <i>u</i> roqui                    | rod):           |   |  |   |                  |  |
| Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): Primary: Secondary:                          |   |   |  |  |  |  |   |                 |   |  |   |                  |  |
|   | A1 - Surface  | Water   |  |  | B11 - Salt (   | Crust  |   |                 |   | -<br>B6 - Surface Soil Cracks  |   |                  |  |
|   | A2 - High Wa  |   |  |  | B13 - Aqua   |  |   |                 |   |  | Vegetated Concave Su  | rface            |  |
|   | A3 - Saturatio<br>B1 - Water M  |   |  |  |  | gen Sulfide C<br>eason Water                           |   |                 |   |  | e Patterns<br>Rhizospheres on Living  | Deate (tilled)   |  |
|   |   |   |  |  |  |  |   | Roots (not till | ι Π   |  |   | Roots (tilled)   |  |
|   |   |   |  |  |  |  |   |                 |   |  | n Visible on Aerial Imag  | lery             |  |
| B4 - Algal Mat or Crust     C7 - Thin Muck Surface  |   |   |  |  |  |  |   |                 |   |  |   |                  |  |
|   | B5 - Iron Dep   | osits<br>In Visible on Aerial Im  |  |  | Other (Exp   | lain)  |   |                 |   | D5 - FAC-Neu   | tral Test<br>aved Hummocks (LRR   | E)               |  |
|   | B9 - Water-Si   |   | lagery   |  |  |  |   |                 |   | Di - most-mea  |   | ')               |  |
| _   |   |   |  |  |  |  |   |                 |   |  |   |                  |  |
| Field Observ  | vations:  |   |  |  |  |  |   |                 |   |  |   |                  |  |
| Surface Wate  | er Present?   | Yes 🛛   | Depth  | Depth: (in.)   |  |  |   | Watland H       | ludrology   | Dreeent?   | N   |                  |  |
| Water Table   | Present?  | Yes 🛛   | Depth  | :  | (in.)  |  |   | Wetland H       | iyarology   | Present?   | N   |                  |  |
| Saturation Pr   | esent?  | Yes 🛛   |  |  |  |  |   |                 |   |  |   |                  |  |
|   |   |   | Depth  | :  | (in.)  |  |   |                 |   |  |   |                  |  |
|   |   |   |  |  | _ 、 /  | pections), if a  | available:                              |                 |   |  |   |                  |  |
| Describe Reco   | orded Data (s   | stream gauge, moni  | itoring well, ae   | rial photos, pr  | revious insp   | -  | available:                              |                 |   |  |   |                  |  |
| Describe Reco   | orded Data (s   |   | itoring well, ae   | rial photos, pr  | revious insp   | -  | available:                              |                 |   |  |   |                  |  |
| Describe Reco<br>Remarks:   | orded Data(s<br>No primary  | stream gauge, monin<br>or secondary wetla   | itoring well, aei<br>and hydrology   | rial photos, pr<br>r indicators w  | revious insp<br>vere observ  | ved.   |   |                 |   |  |   |                  |  |
| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri  | orded Data (s<br>No primary<br>ption (Descri  | stream gauge, moni-<br>or secondary wetland   | itoring well, aei<br>and hydrology<br>eeded to docu  | rial photos, pr<br>r indicators w<br>ment the ind  | revious insp<br>vere observ  | ved.<br>onfirm the a                                   | absence of ir                           |                 |   |  |   |                  |  |
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| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer   | orded Data (s<br>No primary<br>ption (Descri  | stream gauge, moni<br>or secondary wetla<br>be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix  | toring well, aei<br>and hydrology<br>eeded to docu<br>atrix, CS=Covere   | rial photos, pr<br>r indicators w<br>ment the ind<br>d/Coated Sand   | revious insp<br>vere observ<br>icator or cc<br>Grains; Locat   | ved.<br>onfirm the a<br>tion: PL=Pore<br>Mottles       | absence of ir<br>Lining, M=Matr         | ix)             | Texture   |  | Remarks   |                  |  |
| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer<br>Depth (In.)  | orded Data (s<br>No primary<br>ption (Descri<br>tration, D=Depl   | be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix<br>Color (Moist)   | toring well, aei<br>and hydrology<br>eeded to docu<br>atrix, CS=Covere<br>%  | rial photos, pr<br>r indicators w<br>ment the ind  | revious insp<br>vere observ<br>icator or cc<br>Grains; Locat   | ved.<br>onfirm the a<br>tion: PL=Pore                  | absence of ir                           |                 | Texture   |  | Remarks   |                  |  |
| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer<br>Depth (In.)<br>0-14  | prided Data (s<br>No primary<br>ption (Descri<br>tration, D=Depi<br>Hue_10YR  | be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix<br>Color (Moist)<br>2/1  | eeded to docu<br>and hydrology<br>eeded to docu<br>atrix, CS=Covere<br>%<br>100  | rial photos, pr<br>r indicators w<br>ment the ind<br>d/Coated Sand   | revious insp<br>vere observ<br>icator or cc<br>Grains; Locat   | ved.<br>onfirm the a<br>tion: PL=Pore<br>Mottles       | absence of ir<br>Lining, M=Matr         | ix)             | SIC   | Vertical streaking   |   |                  |  |
| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer<br>Depth (In.)<br>0-14<br>14-20   | prided Data (s<br>No primary<br>ption (Descri<br>tration, D=Depi<br>Hue_10YR<br>Hue_10YR  | be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix<br>Color (Moist)<br>2/1<br>2/1   | eeded to docu<br>and hydrology<br>eeded to docu<br>atrix, CS=Covere<br>%<br>100<br>70  | rial photos, pr<br>r indicators w<br>ment the ind<br>d/Coated Sand   | revious insp<br>vere observ<br>icator or cc<br>Grains; Locat   | ved.<br>onfirm the a<br>tion: PL=Pore<br>Mottles       | absence of ir<br>Lining, M=Matr         | ix)             | SIC<br>C  | Vertical streaking   |   |                  |  |
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| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer<br>Depth (In.)<br>0-14<br>14-20<br>14-20<br>NRCS Hydri                      | prided Data (s<br>No primary<br>ption (Descri<br>tration, D=Depi<br>Hue_10YR<br>Hue_10YR  | be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix<br>Color (Moist)<br>2/1<br>2/1<br>3/1  | eded to docu<br>and hydrology<br>eeded to docu<br>atrix, CS=Covere<br>%<br>100<br>70<br>30<br>eeck here if in  | ment the ind<br>d/Coated Sand<br>Color (   | (Moist)  | ved.<br>ponfirm the a<br>tion: PL=Pore<br>Mottles<br>% | absence of ir<br>Lining, M=Matr<br>Type | Location        | SIC<br>C<br>C<br>Indicators   | Vertical streaking   |   |                  |  |
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| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer<br>Depth (In.)<br>0-14<br>14-20<br>14-20<br>14-20                           | prided Data (s<br>No primary<br>ption (Descri-<br>tration, D=Depi<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>ic Soil Field<br>A1- Histosol<br>A2 - Histic Ep<br>A3 - Black His  | be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix<br>Color (Moist)<br>2/1<br>2/1<br>3/1<br>Indicators (ch<br>spedon  | eded to docu<br>and hydrology<br>eeded to docu<br>atrix, CS=Covere<br>%<br>100<br>70<br>30<br>eeck here if in  | ment the ind<br>d/Coated Sand<br>Color (<br>Color (<br>Color (<br>S5 - Sandy F<br>S6 - Stripped<br>F1 - Loamy f  | Moist)   | ved.   | absence of ir<br>Lining, M=Matr<br>Type | Location        | SIC<br>C<br>C<br>Indicators<br>A9 - 1 cm N<br>A16 - Cost I<br>S7 - Dark S   | for Problematii<br>Muck (LRR I, J)<br>Prairie Redox (L<br>urface (LRR G)   | <u>c Soils1</u><br>.RR F, G, H)   |                  |  |
| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer<br>Depth (In.)<br>0-14<br>14-20<br>14-20<br>14-20                           | ption (Descri<br>tration, D=Depl<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>ic Soil Field<br>A1- Histosol<br>A2 - Histo Ep<br>A3 - Black His<br>A4 - Hydroge  | be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix<br>Color (Moist)<br>2/1<br>2/1<br>3/1<br>Indicators (ch<br>ipedon<br>stic<br>n Sulfide   | eeded to docu<br>and hydrology<br>eeded to docu<br>atrix, CS=Covere<br>%<br>100<br>70<br>30<br>eeck here if in   | ment the ind<br>d/Coated Sand<br>Color (<br>Color (<br>S5 - Sandy Fe<br>S6 - Strippec<br>S6 - Strippec<br>S6 - Strippec<br>S6 - Strippec   | Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist<br>Moist)<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Mois   | ved.   | absence of ir<br>Lining, M=Matr<br>Type | Location        | SIC<br>C<br>C<br>A9 - 1 cm M<br>A16 - Cost<br>S7 - Dark S<br>F16 - High I   | for Problematii<br>fuck (LRR I, J)<br>Prairie Redox (L<br>urface (LRR G)<br>Plains Depressia   | <u>c Soils1</u><br>.RR F, G, H)   | 3)               |  |
| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer<br>Depth (In.)<br>0-14<br>14-20<br>14-20<br>14-20                           | ption (Descri<br>No primary<br>ption (Descri<br>ttration, D=Depl<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>A1- Histosol<br>A2 - Histic Ep<br>A3 - Black His<br>A4 - Hydroge<br>A5 - Stratified   | be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix<br>Color (Moist)<br>2/1<br>2/1<br>3/1<br>Indicators (ch<br>ipedon<br>stic<br>n Sulfide<br>Layers (LRR F)   | eeded to docu<br>and hydrology<br>eeded to docu<br>atrix, CS=Covere<br>%<br>100<br>70<br>30<br>eeck here if in   | dicators are<br>S5 - Sandy F<br>S6 - Strippec<br>F1 - Loamy (<br>F2 - Loamy (<br>F3 - Deplete  | icator or cc<br>Grains; Local<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Mo | ved.   | absence of ir<br>Lining, M=Matr<br>Type | Location        | SIC<br>C<br>C<br>A9 - 1 cm N<br>A16 - Cost I<br>S7 - Dark S<br>F16 - High I<br>F18 - Reduc  | for Problematic<br>Muck (LRR I, J)<br>Prairie Redox (L<br>Uurface (LRR G)<br>Plains Depressio<br>ced Vertic  | <u>c Soils1</u><br>.RR F, G, H)   | 3)               |  |
| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer<br>Depth (In.)<br>0-14<br>14-20<br>14-20<br>14-20                           | ption (Descri<br>No primary<br>ption (Descri<br>tration, D=Depl<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HU | stream gauge, moni<br>or secondary wetla<br>be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix<br>Color (Moist)<br>2/1<br>2/1<br>3/1<br>Indicators (ch<br>ipedon<br>stic<br>n Sulfide<br>Layers (LRR F)<br>ck (LRR FGH)<br>d Below Dark Surface   | eeded to docu<br>and hydrology<br>eeded to docu<br>atrix, CS=Covere<br>%<br>100<br>70<br>30<br>eeck here if in   | dicators are<br>S5 - Sandy F<br>S6 - Strippec<br>F1 - Loamy (<br>F3 - Deplete<br>F6 - Redox E<br>F7 - Deplete  | Contemporation   | ved.   | absence of ir<br>Lining, M=Matr<br>Type | ix)             | SIC           C           C           A9 - 1 cm M           A16 - Cost I           S7 - Dark S           F16 - High I           F18 - Redur           TF2 - Red F           TF12 - Very | for Problematii<br>fuck (LRR I, J)<br>Prairie Redox (L<br>urface (LRR G)<br>Plains Depressia<br>ced Vertic<br>Parent Material<br>Shallow Dark S  | <u>c Soils<sup>1</sup></u><br>.RR F, G, H)<br>DNS (LRR H, outlisde MLRA 72, 73<br>Surface | 3)               |  |
| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer<br>Depth (In.)<br>0-14<br>14-20<br>14-20<br>14-20                           | Prior (Description (Description (Description))<br>ption (Description), D=Depl<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>ic Soil Field<br>A1- Histosol<br>A2 - Histosel<br>A3 - Black His<br>A4 - Hydroge<br>A5 - Stratified<br>A9 - 1 cm Mu<br>A11 - Deplete<br>A12 - Thick D  | be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix<br>Color (Moist)<br>2/1<br>2/1<br>3/1<br>Indicators (ch<br>ipedon<br>stic<br>n Sulfide<br>Layers (LRR F)<br>ck (LRR FGH)<br>d Below Dark Surface<br>ark Surface  | ee e   | ial photos, privinal ph | Moist)<br>(Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist<br>Moist)<br>Moist<br>Moist)<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>M   | ved.   | absence of ir<br>Lining, M=Matr<br>Type | ix)             | SIC           C           C           A9 - 1 cm M           A16 - Cost I           S7 - Dark S           F16 - High I           F18 - Redur           TF2 - Red F           TF12 - Very | for Problematic<br>Muck (LRR I, J)<br>Prairie Redox (L<br>urface (LRR G)<br>Plains Depressia<br>ced Vertic<br>Parent Material  | <u>c Soils<sup>1</sup></u><br>.RR F, G, H)<br>DNS (LRR H, outlisde MLRA 72, 73<br>Surface | 3)               |  |
| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer<br>Depth (In.)<br>0-14<br>14-20<br>14-20<br>14-20<br>NRCS Hydr              | Prior (Descrive and the second  | be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix<br>Color (Moist)<br>2/1<br>2/1<br>3/1<br>Indicators (ch<br>ipedon<br>stic<br>n Sulfide<br>Layers (LRR F)<br>ck (LRR FGH)<br>d Below Dark Surface<br>ark Surface<br>ucky Mineral  | eded to docu<br>and hydrology<br>eeded to docu<br>atrix, CS=Covere<br>%<br>100<br>70<br>30<br>eek here if in   | dicators are<br>S5 - Sandy F<br>S6 - Strippec<br>F1 - Loamy (<br>F3 - Deplete<br>F6 - Redox E<br>F7 - Deplete  | Moist)<br>(Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist<br>Moist)<br>Moist<br>Moist)<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>M   | ved.   | absence of ir<br>Lining, M=Matr<br>Type | ix)             | SIC           C           C           A9 - 1 cm M           A16 - Cost I           S7 - Dark S           F16 - High I           F18 - Redur           TF2 - Red F           TF12 - Very | for Problematii<br>fuck (LRR I, J)<br>Prairie Redox (L<br>urface (LRR G)<br>Plains Depressia<br>ced Vertic<br>Parent Material<br>Shallow Dark S  | <u>c Soils<sup>1</sup></u><br>.RR F, G, H)<br>DNS (LRR H, outlisde MLRA 72, 73<br>Surface | 3)               |  |
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1 cm N<br>A16 - Cost I<br>S7 - Dark S<br>F16 - High I<br>F18 - Redut<br>TF2 - Red F<br>TF12 - Very<br>Other (Expla  | for Problematic<br>Muck (LRR I, J)<br>Prairie Redox (L<br>Uurface (LRR G)<br>Plains Depressio<br>ced Vertic<br>Parent Material<br>Shallow Dark S<br>ain in Remarks)  | <u>c Soils<sup>1</sup></u><br>.RR F, G, H)<br>DNS (LRR H, outlisde MLRA 72, 73<br>Surface |                  |  |
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1 cm M<br>A16 - Cost I<br>S7 - Dark S<br>F16 - High I<br>F18 - Reduu<br>TF2 - Red F<br>TF12 - Very<br>Other (Expla  | for Problematic<br>Muck (LRR I, J)<br>Prairie Redox (L<br>Uurface (LRR G)<br>Plains Depressio<br>ced Vertic<br>Parent Material<br>Shallow Dark S<br>ain in Remarks)  | <u>c Soils<sup>1</sup></u><br>.RR F, G, H)<br>DNS (LRR H, outlisde MLRA 72, 73<br>Surface |                  |  |
| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer<br>Depth (In.)<br>0-14<br>14-20<br>14-20<br>14-20<br>NRCS Hydri             | ption (Descri<br>tration, D=Depl<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>ic Soil Field<br>A1- Histosol<br>A2 - Histic Ep<br>A3 - Black His<br>A4 - Hydroge<br>A5 - Stratified<br>A9 - 1 cm Mu<br>A11 - Deplete<br>A12 - Thick D<br>S1 - Sandy M<br>S2 - 2.5 cm Mu  | be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix<br>Color (Moist)<br>2/1<br>2/1<br>3/1<br>Indicators (ch<br>ipedon<br>stic<br>n Sulfide<br>Layers (LRR F)<br>ck (LRR FGH)<br>d Below Dark Surface<br>ark Surface<br>ucky Mineral<br>lucky Peat or Peat (LR  | eeded to docu<br>and hydrology<br>eeded to docu<br>atrix, CS=Covere<br>%<br>100<br>70<br>30<br>eek here if in<br>c<br>ee<br>RR G, H)   | ial photos, privinal ph | Moist)<br>(Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist)<br>Moist<br>Moist)<br>Moist<br>Moist)<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>Moist<br>M   | ved.   | absence of ir<br>Lining, M=Matr<br>Type | ix)             | SIC<br>C<br>C<br>A9 - 1 cm M<br>A16 - Cost I<br>S7 - Dark S<br>F16 - High I<br>F18 - Reduu<br>TF2 - Red F<br>TF12 - Very<br>Other (Expla  | for Problematic<br>fuck (LRR I, J)<br>Prairie Redox (L<br>urface (LRR G)<br>Plains Depressio<br>ced Vertic<br>Parent Material<br>Shallow Dark S<br>ain in Remarks)   | <u>c Soils<sup>1</sup></u><br>.RR F, G, H)<br>DNS (LRR H, outlisde MLRA 72, 73<br>Surface |                  |  |
| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer<br>Depth (In.)<br>0-14<br>14-20<br>14-20<br>14-20<br>NRCS Hydri             | ption (Descri<br>No primary<br>ption (Descri<br>htration, D=Depl<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>H | be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix<br>Color (Moist)<br>2/1<br>2/1<br>3/1<br>Indicators (ch<br>ipedon<br>stic<br>n Sulfide<br>Layers (LRR F)<br>ck (LRR FGH)<br>d Below Dark Surface<br>ark Surface<br>ucky Mineral<br>lucky Peat or Peat (LRF<br>leyed Matrix   | eeded to docu<br>and hydrology<br>eeded to docu<br>atrix, CS=Covere<br>%<br>100<br>70<br>30<br>eek here if in<br>c<br>ee<br>RR G, H)   | ial photos, privinal ph | icator or cc<br>Grains; Locat<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Mo | ved.   | absence of ir<br>Lining, M=Matr<br>Type | Location        | SIC<br>C<br>C<br>A9 - 1 cm M<br>A16 - Cost I<br>S7 - Dark S<br>F16 - High I<br>F18 - Redur<br>TF2 - Red F<br>TF12 - Very<br>Other (Expla  | for Problematic<br>fuck (LRR I, J)<br>Prairie Redox (L<br>urface (LRR G)<br>Plains Depressio<br>ced Vertic<br>Parent Material<br>Shallow Dark S<br>ain in Remarks)   | <u>c Soils<sup>1</sup></u><br>.RR F, G, H)<br>DNS (LRR H, outlisde MLRA 72, 73<br>Surface |                  |  |
| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer<br>Depth (In.)<br>0-14<br>14-20<br>14-20<br>14-20<br>NRCS Hydr<br>NRCS Hydr | ption (Descri<br>No primary<br>httration, D=Depl<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_1 | be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix<br>Color (Moist)<br>2/1<br>2/1<br>3/1<br>Indicators (ch<br>ipedon<br>stic<br>n Sulfide<br>Layers (LRR F)<br>ck (LRR FGH)<br>d Below Dark Surface<br>ark Surface<br>ucky Mineral<br>lucky Peat or Peat (LR<br>ky Peat or Peat (LR<br>ky Peat or Peat (LR<br>ky Peat or Peat (LR | eeded to docu<br>and hydrology<br>eeded to docu<br>atrix, CS=Covere<br>%<br>100<br>70<br>30<br>ee<br>ee<br>Ee<br>RR G, H)<br>R F)  | dicators are<br>S5 - Sandy F<br>S5 - Sandy F<br>S6 - Strippec<br>F1 - Loamy (<br>F2 - Loamy (<br>F3 - Depleter<br>F6 - Redox D<br>F7 - Depleter<br>F8 - Redox D<br>F7 - Depleter<br>F8 - Redox D<br>F7 - Depleter<br>F8 - Redox D<br>F1 - High P   | icator or cc<br>Grains; Local<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Mo | ved.   | Absence of ir<br>Lining, M=Matr<br>Type | ILocation       | SIC<br>C<br>C<br>A9 - 1 cm M<br>A16 - Cost I<br>S7 - Dark S<br>F16 - High I<br>F18 - Reduc<br>TF2 - Red F<br>TF12 - Very<br>Other (Expla<br>'Indicators of I<br>unless disturb          | for Problematic<br>Muck (LRR I, J)<br>Prairie Redox (L<br>Urface (LRR G)<br>Plains Depressic<br>ced Vertic<br>Parent Material<br>v Shallow Dark S<br>ain in Remarks)<br>hydrophytic vegeta<br>ed or problematic. | c Soils <sup>1</sup><br>.RR F, G, H)<br>DNS (LRR H, outlisde MLRA 72, 73<br>Surface       | nust be present, |  |
| Describe Reco<br>Remarks:<br>SOILS<br>Profile Descri<br>(Type: C=Concer<br>Depth (In.)<br>0-14<br>14-20<br>14-20<br>14-20<br>NRCS Hydri             | ption (Descri<br>No primary<br>httration, D=Depl<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>Hue_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HuE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_10YR<br>HUE_1 | be to the depth ne<br>etion, RM=Reduced Ma<br>Matrix<br>Color (Moist)<br>2/1<br>2/1<br>3/1<br>Indicators (ch<br>ipedon<br>stic<br>n Sulfide<br>Layers (LRR F)<br>ck (LRR FGH)<br>d Below Dark Surface<br>ark Surface<br>ucky Mineral<br>lucky Peat or Peat (LR<br>ky Peat or Peat (LR<br>ky Peat or Peat (LR<br>ky Peat or Peat (LR | eeded to docu<br>and hydrology<br>eeded to docu<br>atrix, CS=Covere<br>%<br>100<br>70<br>30<br>ee<br>ee<br>Ee<br>RR G, H)<br>R F)  | dicators are<br>S5 - Sandy F<br>S5 - Sandy F<br>S6 - Strippec<br>F1 - Loamy (<br>F2 - Loamy (<br>F3 - Depleter<br>F6 - Redox D<br>F7 - Depleter<br>F8 - Redox D<br>F7 - Depleter<br>F8 - Redox D<br>F7 - Depleter<br>F8 - Redox D<br>F1 - High P   | icator or cc<br>Grains; Local<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Moist)<br>(Mo | ved.   | Absence of ir<br>Lining, M=Matr<br>Type | ILocation       | SIC<br>C<br>C<br>A9 - 1 cm M<br>A16 - Cost I<br>S7 - Dark S<br>F16 - High I<br>F18 - Reduc<br>TF2 - Red F<br>TF12 - Very<br>Other (Expla<br>'Indicators of I<br>unless disturb          | for Problematic<br>Muck (LRR I, J)<br>Prairie Redox (L<br>Urface (LRR G)<br>Plains Depressic<br>ced Vertic<br>Parent Material<br>v Shallow Dark S<br>ain in Remarks)<br>hydrophytic vegeta<br>ed or problematic. | <u>c Soils<sup>1</sup></u><br>.RR F, G, H)<br>DNS (LRR H, outlisde MLRA 72, 73<br>Surface | nust be present, |  |

## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

| VECETATION         (Species identified in all upperase are non-native species.)           Tree Stratum (Plot size: 30 ft. radius)         Survey of the second stratum (Plot size: 30 ft. radius)         Dominant Species that are OBL_FACW, or FAC: (A)           3.  | n50w10-d1     |
|---|---------------|
| Tree Stratum (Plot size: 30 ft radius)       Market of Dominant       Dominance Test Worksheet         1.   |               |
| Species Name         % Cover         Dominance Test Worksheet           1.  |               |
| 1.  |               |
| 3.  |               |
| 3.  | (A)           |
| 5.       Percent of Dominant Spacies That Are OBL, FACW, or FAC.       50.0%       (A         8.       Prevalence Index Worksheet       Total % Cover of:       Multiply by:         10.       Total % Cover of:       Multiply by:       OBL spp.       0       x 1 =       0         Sapling/Shrub Stratum (Plot size: 15 ft, radius)       Total % Cover of:       Multiply by:       0       x 3 =       46         1.       Prevalence Index Worksheet       Total % Cover of:       Multiply by:       0       x 3 =       46         5.       Sapling/Shrub Stratum (Plot size: 15 ft, radius)       Total       64       (A)       241       (B)         4.       Sapling/Shrub Stratum (Plot size: 5 ft, radius)       Total       64       (A)       241       (B)         7.       Sapling/Shrub Stratum (Plot size: 5 ft, radius)       Total Cover =       0       Total       64       (A)       241       (B)         9.       Total Cover =       0       Prevalence Index is 4.3.0 *       Prevalence Index is 5.3.0 |               |
| 6.       Percent of Dominant Species That Are OBL, FACW, or FAC:       50.0%       (A         7.       Prevalence Index Worksheet       Intal % Cover of:       Multiply by:         10.       Total Cover =       0       Sepling/Shrub Stratum (Plot size: 15 ft, radius)       FACW spp.       0       x 1 =       0         10.       Total Cover =       0       FACW spp.       0       x 1 =       0         2.       0       FACW spp.       0       x 5 =       0         2.       0       5       5       0       5       0         5.       0       0       x 5 =       0       0       10       Prevalence Index s = 3.766         10.       Total Cover =       0       Mydrophytic Vegetation Indicators:       Rapid Test for Hydrophytic Vegetation Indicators:         9.       0       Total Cover =       0       Mydrophytic Vegetation Indicators:       Rapid Test for Hydrophytic Vegetation Indicators:         9.       0       0       Prevalence Index is 5.3.0*       Mydrophytic vegetation (Explain)*         10.       1       Anteroau antensitificitia       5       N       FACU         11.       Anteroau antensitificitia       5       N       FACU       FACU <t< td=""><td>(B)</td></t<>  | (B)           |
| 7.       8.         9.       India % Cover of.       Multiply by:         10.       Total % Cover of.       Multiply by:         10.       OBL spp.       0       X 1 =       0         FACW spp.       0       X 1 =       0       FACW spp.       0       X 1 =       0         Sapling/Shrub Stratum (Plot size: 15 ft. radius)       FACU spp.       0       X 4 =       196       10       10       10       X 5 =       0       10       10       10       X 5 =       0       10<   | —             |
| 8.       Prevalence Index Worksheet         9.       Total % Cover of       Multiply by:         10.       Total % Cover of       Multiply by:         Sapling/Shrub Stratum (Plot size: 15 ft. radius)       FAC spp.       0       X 2 =       0         1.       FAC spp.       0       X 3 =       45         9.       FAC spp.       0       X 5 =       0         2.       Total 64       (A)       241       (B)         4.       Sapling/Shrub Stratum (Plot size: 15 ft. radius)       Total 64       (A)       241       (B)         4.       Sapling/Shrub Stratum (Plot size: 5 ft. radius)       Total 64       (A)       241       (B)         7.       Sapling/Shrub Stratum (Plot size: 5 ft. radius)       Total Cover =       0       Total 64       (A)       241       (B)         9.       Total Cover =       0       Total Cover =       0       Rajid Test for Hydrophytic Vegetation Indicators:         9.       Total Cover =       0       Prevalence Index is 5 3.0 *       Problem Hydrophytic Vegetation (Explain) *         10.       Total Cover =       0       *       Problem Hydrophytic Vegetation (Explain) *         1.       Andropogn genarcii       35       Y       FACU  | 6 (A/B)       |
| 9.       Total % Cover of:       Multiply by:         10.       Total Cover =       0         Sapling/Shrub Stratum (Plot size: 15 ft. radius)       FAC spp.       0       x 1 =       0         1.       FAC spp.       0       x 2 =       0         3.       FAC spp.       0       x 5 =       0         2.       FAC spp.       0       x 5 =       0         3.       Total 64       (A)       241       (B)         4.       FAC spp.       0       x 5 =       0         7.       FAC spp.       0       x 5 =       0         9.       FAC spp.       0       x 5 =       0         9.       FAC spp.       0       x 5 =       0         10.       FAC spp.       0       x 5 =       0         11.       Andropogon geardi  |               |
| 10.       Total Cover = 0       OBL spp.       0       X 1 = 0         Sapling/Shrub Stratum (Plot size: 15 ft. radius)       FACU spp.       0       X 2 = 0         1.       FACU spp.       0       X 2 = 0         2.       FACU spp.       0       X 4 = 106         3.  |               |
| Total Cover =         0         x 2 =         0           Saping/Shrub Stratum (Plot size: 15 ft. radius)         FACW spp.         0         x 3 =         45           1  |               |
| Saping/Shrub Stratum (Plot size: 15 ft, radius)       FAC spp.       15       X 3 =       45         1  |               |
| Sapling/Shrub Stratum (Plot size: 15 ft. radius)       FACU spp. 49       x 4 = 196         1.  |               |
| 1.  |               |
| 2.  |               |
| 3.  |               |
| 4.  |               |
| 5.       Prevalence Index = B/A =         6.  |               |
| 6.  |               |
| 7.  |               |
| 8.       Hydrophytic Vegetation Indicators:         9.  |               |
| 9.  |               |
| 10.       Total Cover =         Herb Stratum (Plot size: 5 ft. radius)       Prevalence Index is < 3.0 *  | n             |
| Herb Stratum (Plot size: 5 ft. radius)       Morphological Adaptations (Explain) *         1.       Andropogon gerardii       35       Y       FACU         2.       Panicum virgatum       15       Y       FACU         3.       Ambrosia artemisiifolia       5       N       FACU         4.       Melilotus officinalis       5       N       FACU         5.       Taraxacum officinale       2       N       FACU         6       Trifolium hybridum       2       N       FACU         7.   |               |
| Problem Hydrophytic Vegetation (Explain) *         1.       Andropogon gerardii       35       Y       FACU         2.       Panicum virgatum       15       Y       FACU         3.       Ambrosia artemisiifolia       5       N       FACU         4.       Melilotus officinalis       5       N       FACU         5.       Taraxacum officinale       2       N       FACU         6       Trifolium hybridum       2       N       FACU         7.   |               |
| 1.       Andropogon gerardii       35       Y       FACU         2.       Panicum virgatum       15       Y       FAC         3.       Ambrosia artemisiifolia       5       N       FACU         4.       Melilotus officinalis       5       N       FACU         5.       Taraxacum officinale       2       N       FACU         6       Trifolium hybridum       2       N       FACU         7.   | e e           |
| 2.       Panicum virgatum       15       Y       FAC       * Indicators of hydric soil and wetland hydrology must l present, unless disturbed or problematic.         3.       Ambrosia artemisiifolia       5       N       FACU       present, unless disturbed or problematic.         4.       Melliotus officinalis       5       N       FACU       Definitions of Vegetation Strata:         5.       Taraxacum officinale       2       N       FACU       Tree - Woody plants 3 in. (7.6cm) or more in diameter at brineight (DBH), regardless of height.         6.       7.  | olain) *      |
| 3.       Ambrosia artemisiifolia       5       N       FACU       present, unless disturbed or problematic.         4.       Melliotus officinalis       5       N       FACU       Definitions of Vegetation Strata:         5.       Taraxacum officinale       2       N       FACU       Tree - Woody plants 3 in. (7.6cm) or more in diameter at bringht (DBH), regardless of height.         6.       Trifolium hybridum       2       N       FACU       Tree - Woody plants 3 in. (7.6cm) or more in diameter at bringht (DBH), regardless of height.         8.  |               |
| S.       Printodal alternational       S       N       Procession         4.       Melilotus officinalis       5       N       FACU         5.       Tareaxeum officinale       2       N       FACU         6       Trifolium hybridum       2       N       FACU         7.          Neight (DBH), regardless of height.         8.             9.          Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.         11.   |               |
| 5.       Taraxacum officinale       2       N       FACU         6       Trifolium hybridum       2       N       FACU         7.       2       N       FACU         8.   | υ.            |
| 6       Trifolium hybridum       2       N       FACU         7.  |               |
| 7.         height (DBH), regardless of height.           8.   |               |
| 8.         Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of hei           10.         11.  | ter at breast |
| 9.         Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of hei           10.  |               |
| 10.           11.   | s of height.  |
| 11.   |               |
|   |               |
|   | ss of size.   |
| 13.   |               |
| 14.   |               |
| 15. Woody Vines - All woody vines, regardless of height.  |               |
| Total Cover = <u>64</u>   |               |
|   |               |
| Woody Vine Stratum (Plot size: 30 ft. radius)   |               |
| 1.  |               |
| 2.  |               |
| 3. Hydrophytic Vegetation Present? N  | _             |
| 5.  |               |
| 4. Total Cover = 0  |               |
| Remarks: The upland sample area is dominated by big bluestem and switchgrass, with a component of annual and perennial upland forbs.  |               |
|   |               |
|   |               |
| Additional Remarks:   |               |
|   |               |
|   |               |
|   |               |
|   |               |