WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: County:	09/24/14	
Applicant:				Subregion (MLRA or LRR): MLRA 56							Marshall	
Investigators		NTT/BEH			_Subregio	•	•	MLRA 56		State:	MN	
Soil Unit:	I24A			_	D - 1: - 6:		I Classification	:			455 - 45 24 1-4	
Landform:	Depression 0 - 2%		Latitude: 48.1		cal Relief: Longitude:		101	Datina		∣ Sample Point I	w-155n45w34-k1	
Slope (%):		nditions on the site						Datum:	□ No	Section:		
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Are Vegetation Are Vegetation			□significantl □aturally pre	•		Ait	e normal circur ☑ Yes		esent	Township:	Dir:	
SUMMARY C			Haturally pr	oblematic:			<u> </u>	□ I 10		Range:	DII.	
Hydrophytic \			Yes					Hydric Soi	Is Present?	Ves		
Wetland Hyd	•		Yes		-					t Within A W	etland? Yes	
Remarks:				ocated in a w	heat field	within ar	n existing pipeli				growing throughout, b	ut large
rtomarto.		pare soil are also p					Toxioting pipeli	ino comacn.	THO Wottan	id rido Wriodt	growing unoughout, b	atlargo
HYDROLOG	•	sare con are also p	roooni with c	ome coattore	a olougii g	ji doo.						
		inatara (Chaalaall	that amply N	lining up of ou				ma al\ -				
Primary:		icators (Check all	tnat apply; iv	linimum of or	e primary	or two s	econdary requi	rea):	Secondary:			
	<u>.</u> A1 - Surface	Water		П	B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua		1				Vegetated Concave Surfa	ace
	A3 - Saturation				C1 - Hydro					B10 - Drainag		
	B1 - Water M				C2 - Dry S			Daata (aat till			Rhizospheres on Living R	toots (tilled)
	B2 - Sedimer B3 - Drift Dep	•					spheres on Living educed Iron	Roots (not till	ı	C8 - Crayfish	виггоws n Visible on Aerial Imager	V
	B4 - Algal Ma				C7 - Thin N				_ _	D2 - Geomorp		у
	B5 - Iron Dep	osits			Other (Exp				✓	D5 - FAC-Neu		
		on Visible on Aerial Ima	agery							D7 - Frost-He	aved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves										
Field Observ	votiono.											
		Var	Daniel		(in)							
Surface Wate		Yes		າ:	_ (in.)			Wetland F	Hydrology I	Present?	Υ	
Water Table		Yes		າ:	- (in.) - (in.)						—	
Saturation Present? Yes Depth: (in.)												
					<u> </u>							
		stream gauge, monit			evious insp							
Describe Reco		stream gauge, monit hydrology indicator			evious insp			il cracking a	ınd landsca	pe position.		
Remarks:					evious insp			il cracking a	ınd landsca	pe position.		
Remarks:	No primary	hydrology indicator	rs are preser	t. Wetland hy	evious insp drology is	assume	ed based on so		ınd landsca	pe position.		
Remarks: SOILS Profile Descri	No primary ption (Descr	hydrology indicator be to the depth ne	rs are preser	t. Wetland hy	evious insported in a contract of the contract	assume	ed based on so	ndicators.)	ınd landsca	pe position.		
Remarks: SOILS Profile Descri	No primary ption (Descr	hydrology indicator	rs are preser	t. Wetland hy	evious insported in a contract of the contract	assume	ed based on so	ndicators.)	ınd landsca	pe position.		
Remarks: SOILS Profile Descri	No primary ption (Descr	hydrology indicator be to the depth necession, RM=Reduced Ma	rs are preser	t. Wetland hy	evious insported in a contract of the contract	assume onfirm th	ed based on so be absence of in Fore Lining, M=Mat	ndicators.)	ınd landsca	pe position.		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descr	hydrology indicator be to the depth necession, RM=Reduced Ma	eded to docu	ment the indied/Coated Sand	evious insported in the control of t	assume onfirm th tion: PL=P	ed based on so e absence of in ore Lining, M=Mat	ndicators.)		pe position.	Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary iption (Descriptration, D=Depl	be to the depth nedetion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to docu atrix, CS=Covere	ment the indied/Coated Sand	evious inspondered in the control of	assume onfirm th tion: PL=P Mottl	ed based on so te absence of in Fore Lining, M=Mati es Type	ndicators.) rix) Location		pe position.	Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	hydrology indicator be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 5/2 Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eded to docu atrix, CS=Covered % 100 90	ment the indicators are results. Wetland hyment the indicators are results. S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious inspondrology is cator or conference of the conference of t	monfirm the tion: PL=P Mottle % 10 t):	ed based on so le absence of infore Lining, M=Mate es Type C	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	c Soils ¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	hydrology indicator be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 5/2 Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) ck (LRR FGH) ind Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRC Cky Peat or Peat or Peat (LRC Cky Peat or Peat or Peat (eded to docu atrix, CS=Covered % 100 90 eck here if in	ment the indicators are results. Wetland hyment the indicators are results. S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious inspondrology is cator or conference of the conference of t	monfirm the tion: PL=P Mottle % 10 t):	ed based on so le absence of infore Lining, M=Mate es Type C	Location M	Texture CL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Expla	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	st be present,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	hydrology indicator be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 5/2 Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) ck (LRR FGH) ind Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRC Cky Peat or Peat or Peat (LRC Cky Peat or Peat or Peat (eded to docu atrix, CS=Covered % 100 90 eck here if in	ment the indicators are results. Wetland hyment the indicators are results. Standy Results and Standy Results are results. Standy Results are results and results are results. Standy Results are results are results. Standy Results are results are results are results. Standy Results are results are results. Standy Results are results are results are results are results. Standy Results are	evious inspondrology is cator or configurations; Local Moist) 6/8 6/8 Anot present dedox Matrix Mucky Miner Gleyed Matrix Oark Surfaced Dark Surfaced Dar	monfirm the tion: PL=P Mottle % 10 t):	ed based on so le absence of infore Lining, M=Mate es Type C	Location M R H)	Texture CL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	for Problematicuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressioned Vertice Parent Material Shallow Dark Sain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	st be present,
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n45w34-k1
VEGETATION (re non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius) Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	<u></u>	<u>70 0010.</u>	<u> </u>	<u>a.o.a.a.a</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)
3.					
4.					Total Number of Dominant Species Across All Strata:4 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.		1			Total % Cover of: Multiply by:
10.	Total Cayor				OBL spp. 30
	Total Cover =	= 0	_		FACW spp. 10
Conling/Chrub (Stratum (Plataiza: 15 ft radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
5apiing/Shrub 3	Stratum (Plot size: 15 ft. radius)				FACU Spp.
2.		<u> </u>			- OF L Spp
3.					Total 50 (A) 100 (B)
4.					(X)(Z)
5.					Prevalence Index = B/A = 2.000
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Beckmannia syzigachne	20	Y	OBL	
2.	Rumex stenophyllus	10	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Triticum aestivum	10	Y	NI	present, unless disturbed or problematic.
4.	Typha angustifolia	10	Υ	OBL	Definitions of Vegetation Strata:
5.					_
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					O - 1 - 101 - 1 Woody plants loss than 2 in DRH, regardless of beight
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					4
11.					Herb - All herbaceous (non-woody) plants, regardless of size.
12. 13.					- Terb - Air Herbaceous (Herr weedy) plants, regardless of size.
14.					1
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover =	= 50			1
	Total Gover -	. 30	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	(ist size: se in radius)				1
2.					
3.					Hydrophytic Vegetation Present?
5.					
4.					
	Total Cover =				
Remarks:	The wetland vegetation is dominated by slowheat still growing.	ugh grass w	vith cattails	s and narr	row-leaf dock. A large portion of the wetland is bare soil with some areas of planted
Additional R	Remarks:				