WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L	3R								Date:	09/16/14
Applicant:	E	nbridge						County:	Marshall		
Investigators	ors: BJC/RĂJ Subregion (MLRA or LRR): MLRA 56									State:	MN
Soil Unit:	I24A NWI Classification:										
Landform:	Side slopeLocal Relief: VL3 - 7%Latitude: 48.289617Longitude: -96.577537Datum									Sample Point	: <mark>u-156n46w33-i1</mark>
Slope (%):	3 - 7%	La ditions on the site t			-			Datum: ☑ Yes	□ No	Section	
Are Vegetation	• •	□, or Hydrology □			ar: (ir no, exp		e normal circum			Section:	
Are Vegetation		□, or Hydrology □ □, or Hydrology □	•			Ale	rionnai circun ☑ Yes		555111	Township: Range:	Dir:
				biematio:			103			Range.	DII.
	Vegetation Pre	sent?	No					Hvdric Soi	Is Present?	No	
	Irology Present		No		_					t Within A W	/etland? No
Remarks:		ample point is loca	ted in a hay	field domina	ated by qua	ackgrass	and perennial				
HYDROLOG	Y										
Wetland Hv	droloav Indic	ators (Check all th	nat apply: Mi	nimum of or	e primarv	or two se	econdarv requir	red):			
Primary:	•••					0			Secondary:		
	A1 - Surface Wa				B11 - Salt (B6 - Surface S	
	A2 - High Water	Table			B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation B1 - Water Mark	(F			C1 - Hydro C2 - Dry Se					B10 - Drainag	e Patterns Rhizospheres on Living Roots (tilled)
	B2 - Sediment D						pheres on Living	Roots (not till	€ □	C8 - Crayfish	
	B3 - Drift Depos	•			C4 - Prese					•	n Visible on Aerial Imagery
	B4 - Algal Mat o				C7 - Thin N		ice			D2 - Geomorp	
	B5 - Iron Depos				Other (Exp	lain)				D5 - FAC-Neu	
	B7 - Inundation B9 - Water-Stair	Visible on Aerial Imag	jery							D7 - Frost-He	aved Hummocks (LRR F)
Field Observ	vations:										
	er Present? Y	es 🗆	Depth:		(in.)						
Water Table		es 🗆	Depth:		_ (in.) _ (in.)			Wetland H	lydrology F	Present?	Ν
Saturation Pr		es 🗆	Depth:		- (in.)						
			•		- ` `	a ati a a a)	if evenile blev				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: No indicators of wetland hydrology were observed.											
2011											
SOILS Profile Descri	iption (Describe	e to the depth need	ded to docum	nent the indi	cator or co	onfirm the	e absence of in	dicators)			
Profile Descri		e to the depth need on, RM=Reduced Matri									
Profile Descri											
Profile Descri							ore Lining, M=Matr				
Profile Descri	ntration, D=Depletion	on, RM=Reduced Matri			Grains; Locat	ion: PL=Pc	ore Lining, M=Matr		Texture		Remarks
Profile Descri (Type: C=Concer	ntration, D=Depletion	on, RM=Reduced Matri Matrix	ix, CS=Coverec	d/Coated Sand	Grains; Locat	ion: PL=Pc Mottle	ore Lining, M=Matr	ix)	Texture LS		Remarks
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depletion	on, RM=Reduced Matri Matrix Solor (Moist)	ix, CS=Coverec	d/Coated Sand	Grains; Locat	ion: PL=Pc Mottle	ore Lining, M=Matr	ix)	Texture LS S		Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-12	htration, D=Depletion	on, RM=Reduced Matri Matrix Color (Moist) 3/1	ix, CS=Covered % 100	d/Coated Sand	Grains; Locat	ion: PL=Pc Mottle	ore Lining, M=Matr	ix)	Texture LS S		Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-12	htration, D=Depletion	on, RM=Reduced Matri Matrix Color (Moist) 3/1	ix, CS=Covered % 100	d/Coated Sand	Grains; Locat	ion: PL=Pc Mottle	ore Lining, M=Matr	ix)	Texture LS S		Remarks
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Profile Descri (Type: C=Concer Depth (In.) 0-12	htration, D=Depletion	on, RM=Reduced Matri Matrix Color (Moist) 3/1	ix, CS=Covered % 100	d/Coated Sand	Grains; Locat	ion: PL=Pc Mottle	ore Lining, M=Matr	ix)	Texture LS S		Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	Hue_10YR Hue_10YR	on, RM=Reduced Matri Matrix color (Moist) 3/1 4/1	ix, CS=Coverec % 100 100	Color (Grains; Locat Moist)	ion: PL=Pc Mottle	ore Lining, M=Matr	ix)	Texture LS S		Remarks
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	htration, D=Depletion	on, RM=Reduced Matri Matrix color (Moist) 3/1 4/1	ix, CS=Covered % 100	Color (Grains; Locat Moist)	ion: PL=Pc Mottle	ore Lining, M=Matr es Type	ix)	LS S	or Problemati	
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR	on, RM=Reduced Matri Matrix color (Moist) 3/1 4/1	ix, CS=Covered % 100 100 ck here if ind	Color (Grains; Locat Moist)	ion: PL=Pc Mottle	ore Lining, M=Matr es Type	Location	LS S Indicators f	or Problemati uck (LRR I, J)	
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	Hue_10YR Hue_10YR Hue_10YR	on, RM=Reduced Matri Matrix color (Moist) 3/1 4/1	ix, CS=Covered % 100 100 ck here if ind	Color (Grains; Locat Moist) not present	ion: PL=Pc Mottle	ore Lining, M=Matr es Type	Location	LS S Indicators f A9 - 1 cm M	uck (LRR I, J)	
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field Ir A1- Histosol A2 - Histic Epipe A3 - Black Histic	Matrix Matrix color (Moist) 3/1 4/1	ix, CS=Covered % 100 100 ck here if ind	d/Coated Sand Color (Color (S5 - Sandy F S6 - Stripped F1 - Loamy N	Grains; Locat Moist) Moist) not present Redox Matrix Jucky Minera	ion: PL=Pc Mottle % t):	ore Lining, M=Matr es Type	Location	LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su	uck (LRR I, J) Prairie Redox urface (LRR G)	<u>c Soils¹</u> (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field Ir A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S	Matrix Matrix color (Moist) 3/1 4/1 dicators (cheo edon	ix, CS=Covered % 100 100 ck here if ind	Color (Color (S5 - Sandy F S6 - Stripped F1 - Loamy M F2 - Loamy 0	Grains; Locat Moist) not present Redox Matrix Jucky Minera	ion: PL=Pc Mottle % t):	ore Lining, M=Matr es Type	Location	LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	<u>c Soils¹</u> (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Intration, D=Depletion Hue_10YR Hue_10YR Hue_10YR ic Soil Field Ir A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La	Matrix Matrix color (Moist) 3/1 4/1 dicators (cheo edon c Sulfide ayers (LRR F)	ix, CS=Covered	d/Coated Sand Color (Color (S5 - Sandy F S6 - Stripped F1 - Loamy M F2 - Loamy C F3 - Depleted	Grains; Locat Moist) Moist) not present Redox Matrix Mucky Minera Gleyed Matrix	ion: PL=Pc Mottle %	ore Lining, M=Matr es Type	Location	LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi eed Vertic	<u>c Soils¹</u> (LRR F, G, H)
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field Ir A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck	Matrix Matrix color (Moist) 3/1 4/1 dicators (cheo edon collide ayers (LRR F) (LRR FGH)	ix, CS=Covered	Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D	Grains; Locat Moist) Moist) not present Redox Matrix Mucky Minera Gleyed Matrix Dark Surface	ion: PL=Pc Mottle %	ore Lining, M=Matr es Type	Location	LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic arent Material	<u>c Soils¹</u> (LRR F, G, H)) ONS (LRR H, outside MLRA 72, 73)
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field Ir A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck A11 - Depleted	Matrix Matrix color (Moist) 3/1 4/1 adicators (cheo edon Sulfide ayers (LRR F) (LRR FGH) Below Dark Surface	ix, CS=Covered	d/Coated Sand Color (Color (S5 - Sandy F S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted	Grains; Locat Moist) Moist) not present Redox Matrix Jucky Minera Gleyed Matrix Jark Surface d Dark Surface	ion: PL=Pc Mottle %	ore Lining, M=Matr es Type	Location	LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic arent Material Shallow Dark S	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field Ir A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck	Matrix Matrix color (Moist) 3/1 4/1 adicators (cheo edon c Sulfide ayers (LRR F) (LRR FGH) Below Dark Surface k Surface	ix, CS=Covered	d/Coated Sand Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Locat Moist) Moist) not present Redox Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surfa Depressions	ion: PL=Pc Mottle % t):	ore Lining, M=Matr es Type		LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic arent Material	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field Ir A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck A11 - Depleted I A12 - Thick Dar S1 - Sandy Muc S2 - 2.5 cm Muc	Matrix Matrix color (Moist) 3/1 4/1 adicators (cheo edon Sulfide ayers (LRR F) (LRR FGH) Below Dark Surface k Surface ky Mineral cky Peat or Peat (LRF	ix, CS=Covered % 100 100 ck here if ind ck here if ind	d/Coated Sand Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Locat Moist) Moist) not present Redox Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surfa Depressions	ion: PL=Pc Mottle % t):	es Type □		LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic arent Material Shallow Dark S	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Intration, D=Depletion Hue_10YR Hue_10YR Hue_10YR Intraction, D=Depletion Intrection, D=Depletion	Matrix Matrix color (Moist) 3/1 4/1 dicators (cheo edon c Sulfide ayers (LRR F) (LRR FGH) Below Dark Surface k Surface ky Mineral cky Peat or Peat (LRR F	ix, CS=Covered % 100 100 ck here if ind ck here if ind	d/Coated Sand Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Locat Moist) Moist) not present Redox Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surfa Depressions	ion: PL=Pc Mottle % t):	es Type □		LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic arent Material Shallow Dark S ain in Remarks)	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field Ir A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck A11 - Depleted I A12 - Thick Dar S1 - Sandy Muc S2 - 2.5 cm Muc	Matrix Matrix color (Moist) 3/1 4/1 dicators (cheo edon c Sulfide ayers (LRR F) (LRR FGH) Below Dark Surface k Surface ky Mineral cky Peat or Peat (LRR F	ix, CS=Covered % 100 100 ck here if ind ck here if ind	d/Coated Sand Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Locat Moist) Moist) not present Redox Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surfa Depressions	ion: PL=Pc Mottle % t):	es Type □		LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic arent Material Shallow Dark S ain in Remarks)	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Intration, D=Depletion Hue_10YR Hue_10YR Hue_10YR Intraction, D=Depletion Intrection, D=Depletion	Matrix Matrix color (Moist) 3/1 4/1 dicators (cheo edon c Sulfide ayers (LRR F) (LRR FGH) Below Dark Surface k Surface ky Mineral cky Peat or Peat (LRR F	ix, CS=Covered % 100 100 ck here if ind ck here if ind	d/Coated Sand Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Locat Moist) Moist) not present Redox Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surfa Depressions	ion: PL=Pc Mottle % t):	es Type □		LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic arent Material Shallow Dark S ain in Remarks)	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	ic Soil Field Ir A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck A11 - Depleted I A12 - Thick Dar S1 - Sandy Muc S2 - 2.5 cm Muck S3 - 5 cm Muck S4 - Sandy Gley	Matrix Matrix color (Moist) 3/1 4/1 dicators (cheo edon c Sulfide ayers (LRR F) (LRR FGH) Below Dark Surface k Surface ky Mineral cky Peat or Peat (LRR F	ix, CS=Covered % 100 100 ck here if ind ck here if ind	d/Coated Sand Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Locat Moist) Moist) not present Redox Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface d Dark Surfa Depressions lains Depres	ion: PL=Pc Mottle % t):	Pre Lining, M=Matr PS Type □ □ □ □ RA 72, 73 of LRF		LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High P F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic arent Material Shallow Dark S ain in Remarks)	<u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-156n46w33-i1			
VEGETATIO		e non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)				Deminence Test Werkehest			
4	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC: <u>1</u> (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 2 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)			
7.					Drevelence Index Werkeheet			
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.	Tatal Cavar	0			OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 40 x 3 = 120			
	Total Cover =	0			FACW spp. $0 \qquad X \ Z = 0$			
O a ra liva ar (Ola mala					FAC spp. 40 x 3 = 120			
	Stratum (Plot size: 15 ft. radius)				FACU spp. 53 x 4 = 212			
1.					UPL spp. 0 $X 5 = 0$			
<u>2.</u> 3.								
					Total 93 (A) 332 (B)			
<u>4.</u> 5.					\mathbf{D} revelepse index \mathbf{P}/\mathbf{A} 2.570			
<u> </u>					Prevalence Index = B/A = <u>3.570</u>			
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
<u> </u>					Dominance Test is > 50%			
10.	 Total Cover =	0			$\frac{1}{2} = \frac{1}{2} Dominance Test is > 50\%$ Prevalence Index is $\leq 3.0 *$			
		0						
	Dist size: 5 ft redius)				Morphological Adaptations (Explain) *			
	Plot size: 5 ft. radius)	40	V	FAC	Problem Hydrophytic Vegetation (Explain) *			
1.	Sonchus arvensis	40	T V		* Indicators of hydric soil and wetland hydrology must be			
2.	Elymus repens	30		FACU	present, unless disturbed or problematic.			
3.	Cirsium arvense	10	<u> </u>	FACU				
4.	Festuca arundinacea	5	<u>N</u> N	FACU FACU	Definitions of Vegetation Strata:			
5.	Poa pratensis	5			Tree			
6	Rudbeckia hirta	1	<u>N</u>	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
7.	Elymus canadensis	1	<u>N</u> N	FACU	-			
8.	Achillea millefolium		IN	FACU	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
9.					Saping/Shrub - Woody plants less than 5 in. DBH, regardless of height.			
10.					4			
11.					Herb - All herbaceous (non-woody) plants, regardless of size.			
12. 13.					ITELD - An Horbaccous (Horr woody) plants, regardless of size.			
13.	1				4			
14.					Woody Vines - All woody vines, regardless of height.			
13.		02						
	Total Cover =	93						
	ratum (Plot size: 30 ft. radius)							
2.								
<u> </u>					Hydrophytic Vegetation Present?			
<u> </u>					Hydrophytic Vegetation Present? N			
5. 4.								
4.	Total Cover =	0						
Remarks:	The upland sample point is dominated by pe		w thistle or	nd auseka				
itemarks.	The upland sample point is dominated by pe	icilial SUV	พ แทรแษ สไ	iu yuauky				
Additional Remarks:								