L3R	D DETERMINATI Marshal		RM - Great Pl	-	2015-06-08
Project/Site: City Enbridge	//County:	Min	nesota	Sampling Date:	u-157n47w26-b1
Applicant/Owner:BCS/LEB		State:		Sampling Point: 5 T157N R26W	
Investigator(s):	S	ection, Towns			
Talf Landform (hillslope, terrace, etc.):		Local Relief	(concave, con	LL vex, none):	0-2 Slope (%):
LRR F Subregion (LRR or MLRA):	Latitude:	48.386749592	6 Longi	-96.69053879 ude:	
Minnesota State Plane North, NAD 83					
Datum: 170A					PEMAd
Soil Map Unit Name:				NWI Classificatio	on: Yes
Are climatic/hydrologic conditions on the site typical					
Are Vegetation No, Soil No, or Hydrology No	_ significantly dist	turbed? Are "I	Normal Circums	tances" present?	
Are Vegetation, Soil, or Hydrology	naturally problem	atic? (If need	ed, explain any	answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map showi		t locations, tra	nsects, importa	ant features, etc.	
lydrophytic Vegetation Present?		Is the Sam	pled Area		
Hydric Soil Present?	lo	within a W	etland?	No	-
Y Wetland Hydrology Present?	es	If yes, optio	onal Wetland Si	te ID:	
Remarks: (Explain alternative procedures here or in	a separate report.	.)			
Upland sample area is located within a flat, tilled co	rn field. The area v	was previously	mapped as an	NWI, but does not pass hydric	soil or hydrophytic ve
VEGETATION - Use scientific names of plants.				1	
	Absolute % Cover	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size:)		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 0	(A)
2.				Total Number of Dominant	(A)
				2	
3				Species Across All Strata: Percent of Dominant Species	(B)
4				0	
Sapling/Shrub Stratum (Plot Size:)	<u>0                                    </u>	= Total Cover		That Are OBL, FACW, or FAC: Prevalence Index worksheet:	(A/B)
1.				Total % Cover of:	Multiply by:
2				OBL species 0.00	x 1 0
3				FACW species 5.00	x 2 <u>10</u>
4				FACU species 2.00	x 3 <u>40</u>
5	0 =	= Total Cover		UPL species 0.00 Column Totals 17	
Herb Stratum (Plot Size:)	<u> </u>			Prevalence Index = B	_ (-)
1. Zea mays	15.00	Yes		Hydrophytic Vegetation Indicator	
2. Chenopodium album	10.00	Yes	FACU	1 - Rapid Test for Hydrop	nytic Vegetation
3. Puccinellia distans d Glycine max		No	FACW	no 2 - Dominance Test is > 5	
A. Gychie max 5. Rumex crispus		No No	FAC	no3 - Prevalence Index is ≤ 3 4 - Morphological Adapta	
6				supporting data in Remarks or o	
7				Problematic Hydrophytic Vegetatio	n <sup>1</sup>
8				(Explain)	
9				<sup>1</sup> Indicators of hydric soil and wetland hydro unless disturbed or problematic.	logy must be present,
10					
	34 =	= Total Cover			
Woody Vine Stratum (Plot Size:)					
1				-	
2				_	
	0	= Total Cover			
% Bare Ground in Herb Stratum 70				Hydrophytic	
				Vegetation Present?	
Remarks:					
Sample area is dominated by cultivated corn and lamb's quart	ers.				

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OIL Profile Descript	ion: (Describe to the	denth n	eeded to document	the indicat	or or co	nfirm +	ne absence of it		oint: <u>u-157n47</u>
epth	Matrix	ueptiin		lox Features			le absence of il	nuicators.)	
nches)	Color (moist)	%	Color (moist)	%		Loc <sup>2</sup>	Texture	Remar	ks
	10YR 2 1	100		,,,	.,pc	200	VFSL	Boundary highly variable;	
.5-25	2.5Y 5 4	60	10YR 5 6	5	с	м	LFS		
.5-25	2.5Y 4 2	35					LFS	Mixed matrix.	
					·			<u> </u>	
·									
	ration, D=Depletion, RM=	Reduced N	Matrix, MS=Masked Sar	id Grains.					=Pore Lining, M=Matrix
ydric Soil Indicato							_	rs for Problematic Hydric Soil <sup>3</sup> :	
Histosol (A1			_	leyed Matrix (	S4)		_	m Muck (A9) ( <b>LRR I, J</b> )	
Histic Epipe	don (A2)		Sandy Re	edox (S5)			_	ast Prairie Redox (A16)( <b>LRR K, L, F</b>	<b>?</b> )
Black Histic	(A3)		Stripped	Matrix (S6)			L Dar	k Surface (S7) (LRR G)	
Hydrogen S	ulfide (A4)		Loamy N	lucky Mineral	(F1) <b>(LRR</b>	K, L)	L Hig	h Plains Depressions (F16)	
Stratified La	ayers (A5)		Loamy G	ileyed Matrix	(F2)		(LRR	H outside of MLRA 72 & 73)	
1cm Muck (	A9) ( <b>LRR F, G, H</b> )		Depleted	d Matrix (F3)			Red	duced Vertic (F18)	
Depleted Be	elow Dark Surface (A11)		🗌 Redox D	ark Surface (F	6)		Red	l Parent Material (F21)	
	Surface (A12)		Denleter	d Dark Surface	(F7)		🗌 Ver	y Shallow Dark Surface (TF12)	
-	ky Mineral (S1)			epressions (F8				ner (explain in remarks)	
2.5cm Muck	ky Peat or Peat (S2)(LRR	G, H)	L High Plai	ins Depressior	ns (F16)		<sup>3</sup> Indicato	ors of hydrophytic vegetation and	l
5cm Mucky	Peat or Peat (S3) (LRR F)		(MLR	A 72 & 73 of I	LRR H)			hydrology must be present, unle d or problematic.	SS
	6						disturbed	d or problematic.	
estrictive Layer (if	i present):								
Type: Depth (incl				-		1	Hydric Soil Present	t? <u>No</u>	
IYDROLOG	y of the two horizons. The	e profile is	highly mixed from tillag	e.					
Vetland Hydro	logy Indicators:								
rimary Indicato	ors (minimum of one	is require	ed; check all that ap	(vla			Se	condary Indicators (minimu	Im of two required)
Surface Wa	iter (A1)		Salt Crust (	B11)				Surface Soil Cracks (B6)	
o High Water	Table (A2)		Aquatic Invertebrates (B13)				Sparsely Vegetated Concave Surface (B8)		
es Saturation			Hydrogen Sulfide Odor (C1)				Drainage Patterns (B10)		
Water Mar	ks (B1)		Dry-Season Water Table (C2)				Oxidized Rhizospheres on Living Roots (C3)		
Sediment D	Deposits (B2)		Oxidized Rhizospheres on Living Roots (C3)				(where tilled)		
Drift Depos	sits (B3)		(where not tilled)				Crayfish Burrows (C8)		
Algal Mat o	or Crust (B4)		Presence of Reduced Iron (C4)				Saturation Visible on Aerial Imagery (C9)		
Iron Deposi	its (B5)		Thin Muck	Surface (C7)				Geomorphic Position (D2)	
	ined Leaves (B9)		Other (Exp	lain in Remarl	(S)			FAC-Neutral Test (D5)	
	Visible on Aerial Imagery	/ (B7)						Frost-Heave Hummocks (D	97) (LRR F)
ield Observatio				<i>//</i> 1 \					
urface Water P		Ye	•	(inches)					
Vater Table Pre		Ye		(inches) <u>15</u> (inches) <u>0</u>			Watlan	d Hydrology Procest?	Yes
aturation Prese ncludes capilla		10	Depth	(incries) <u>U</u>			wetian	d Hydrology Present?	103
	ded Data (stream gau	ge, moni	toring well, aerial p	hotos, previ	ous insp	ections	), if available:		
emarks:									
Soil saturated to	o the surface due to i	recent he	eavy rains, but no ot	her wetland	d hydrol	ogy indi	cators observed	d.	
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ite Photograph	1						Sampl	ing Point: u-157n47w26-b	1
i notogi apli	-						50p	• · · <u> </u>	



Latitude: 48.3867408754755	Cowardin Classification:					
Longitude: -96.6905126442171	Circular 39:					
Direction: NE	Eggers & Reed:					
Remarks:						
Upland NWI						
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Site Photograph 2	Sampling Point: u-157n47w26-b1					

Latitude:	Cowardin Classification:
Longitude:	Circular 39:
Direction:	Eggers & Reed:
Remarks:	

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