L3R	ID DETERMINA Marsh		0RM - Great P	lains Region	2015-06-05
Project/Site: Cit Enbridge	ty/County:	Mir	inesota	Sampling Date:	w-156n46w18-a1
Applicant/Owner:BCS/LEB		State:		Sampling Point: 3 T156N R46W	
Investigator(s):		Section, Towns	ship, Range:		
Depression Landform (hillslope, terrace, etc.):		Local Relie	ef (concave, con	CL vex, none):	0-2 Slope (%):
LRR F Subregion (LRR or MLRA):	Latitude	48.33390567		-96.60997068 tude:	
Minnesota State Plane North, NAD 83 Datum:	8 (2011) U.S. feet				
I33A Soil Map Unit Name:				NWI Classificatio	n:
					Yes
Are climatic/hydrologic conditions on the site typica No No No					
Are Vegetation, Soil, or Hydrology	significantly d	isturbed? Are "	Normal Circum	stances" present?	
Are Vegetation, Soil, or Hydrology	naturally proble	matic? (If need	ded, explain any	answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map show	ving sampling poi	nt locations, tra	ansects, import	ant features, etc.	
Hydrophytic Vegetation Present?	Yes	is the Sam	pled Area		
	Yes		-	Yes	
	Yes	within a V			
Vetland Hydrology Present?			ional Wetland S	ite ID:	
Remarks: (Explain alternative procedures here or in The wetland is a wet meadow located within a road			ninated by waa	lly sodae and read conory grass	
	uside ditch. The v	egetation is doi	mateu by woo	ny seuge and reed canaly grass	
/EGETATION - Use scientific names of plants.					
Edelation - Ose scientific names of plants.	Absolute	Dominant	Indicator	Dominance Test worksheet:	
ree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species	
				That Are OBL, FACW, or FAC: 2	(A)
	<u> </u>			Total Number of Dominant	
				2 Species Across All Strata:	(B)
	·			Percent of Dominant Species	
	0	= Total Cover		100 That Are OBL, FACW, or FAC:	(A/B)
apling/Shrub Stratum (Plot Size:)				Prevalence Index worksheet:	
				Total % Cover of:           OBL species         35.00	Multiply by: x 1 35
				FACW species 32.00	x 2 64
				FACU species 5.00	x 3 40
				UPL species 0.00	x 4 0
	0	_ = Total Cover		Column Totals 82 Prevalence Index = B/	(A) <u>154</u> (B)
erb Stratum (Plot Size:) Carex pellita	35.00	Yes	OBL	Hydrophytic Vegetation Indicators	
Phalaris arundinacea	30.00	Yes	FACW	1 - Rapid Test for Hydroph	
Lotus corniculatus	10.00	No	FACU	yes 2 - Dominance Test is > 50	%
Anthoxanthum odoratum Eleocharis compressa	- 5.00	- <u>No</u>	FAC	yes 3 - Prevalence Index is ≤ 3	
	2.00	No	FACW	4 - Morphological Adaptat supporting data in Remarks or or	
				Problematic Hydrophytic Vegetation	1
				(Explain)	
				<sup>1</sup> Indicators of hydric soil and wetland hydrol – unless disturbed or problematic.	ogy must be present,
0					
	82	= Total Cover			
Voody Vine Stratum (Plot Size:)					
				_	
				_	
	0	= Total Cover			
6 Bare Ground in Herb Stratum	_			Hydrophytic	
				Vegetation Present?	<u> </u>
emarks:				_	
Remarks: The wetland sample area is dominated by woolly sedge and r	eed canary grass, wi	th bird's-foot trefo	il and sweet grass	also present throughout.	

			Sampling Point: w-156n
rofile Description: (Describe to the de epth Matrix	epth needed to docum	Redox Features	the absence of indicators.)
nches) Color (moist)	% Color (mo		<sup>2</sup> Texture Remarks
	% Color (110	isty % type LOC	Texture Remarks
vpe: C=Concentration, D=Depletion, RM=Re	educed Matrix, MS=Masked	J Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=
dric Soil Indicators:			Indicators for Problematic Hydric Soil <sup>3</sup> :
Histosol (A1)	San	dy Gleyed Matrix (S4)	1cm Muck (A9) ( <b>LRR I, J</b> )
Histic Epipedon (A2)	San	dy Redox (S5)	Coast Prairie Redox (A16)(LRR K, L, R)
Black Histic (A3)		oped Matrix (S6)	Dark Surface (S7) (LRR G)
г			
J Hydrogen Sulfide (A4)		my Mucky Mineral (F1) <b>(LRR K, L)</b>	High Plains Depressions (F16)
Stratified Layers (A5)	Loan	my Gleyed Matrix (F2)	(LRR H outside of MLRA 72 & 73)
1cm Muck (A9) (LRR F, G, H)	L Dep	leted Matrix (F3)	Reduced Vertic (F18)
Depleted Below Dark Surface (A11)	Red	ox Dark Surface (F6)	Red Parent Material (F21)
Thick Dark Surface (A12)	Dep	leted Dark Surface (F7)	Very Shallow Dark Surface (TF12)
1		ox Depressions (F8)	Other (explain in remarks)
Sandy Mucky Mineral (S1)			
2.5cm Mucky Peat or Peat (S2)(LRR G,	H) ⊔ High	n Plains Depressions (F16)	<sup>3</sup> Indicators of hydrophytic vegetation and
5cm Mucky Peat or Peat (S3) (LRR F)	(	(MLRA 72 & 73 of LRR H)	wetland hydrology must be present, unless
			disturbed or problematic.
Type: Depth (inches):			Hydric Soil Present? Yes
Depth (inches):marks:			Hydric Soil Present? Yes ased on the hydrology and dominance of hydrophytic vegetation.
Type: Depth (inches): marks: ue to dig restrictions in roadside ditches, the YDROLOGY			<u>.</u>
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Type: Depth (inches): marks: e to dig restrictions in roadside ditches, the /DROLOGY etland Hydrology Indicators:	e soil profile could not be o	bserved. Soils are assumed hydric b	<u>.</u>
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Type: Depth (inches): narks: e to dig restrictions in roadside ditches, the //DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is	e soil profile could not be o required; check all tha Salt Cr	bserved. Soils are assumed hydric b	ased on the hydrology and dominance of hydrophytic vegetation.
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Type: Depth (inches): narks: e to dig restrictions in roadside ditches, the // // // // // // // // // // Sufland Hydrology Indicators: mary Indicators (minimum of one is Surface Water (A1) High Water Table (A2)	e soil profile could not be o required; check all tha Salt Cr Aquat Hydro	t apply) rust (B11) ic Invertebrates (B13)	ased on the hydrology and dominance of hydrophytic vegetation. <u>Secondary Indicators (minimum of two requ</u> Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Type: Depth (inches): narks: e to dig restrictions in roadside ditches, the //DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3)	e soil profile could not be o required; check all tha Salt Cr Aquat Hydro Dry-Se	t apply) rust (B11) gen Sulfide Odor (C1)	ased on the hydrology and dominance of hydrophytic vegetation.  Secondary Indicators (minimum of two requession)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Oxidized Rhizospheres on Living Roots (C3)
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Type: Depth (inches): narks: e to dig restrictions in roadside ditches, the /DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	e soil profile could not be o required; check all tha Salt Cr Aquat Hydro Dry-Se Oxidiz (where Preser Thin M	t apply) ust (B11) ic Invertebrates (B13) gen Sulfide Odor (C1) ason Water Table (C2) ed Rhizospheres on Living Roots (C3 <b>not tilled</b> ) nce of Reduced Iron (C4)	ased on the hydrology and dominance of hydrophytic vegetation.  Secondary Indicators (minimum of two reque  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Oxidized Rhizospheres on Living Roots (C3)  (where tilled)  Saturation Visible on Aerial Imagery (C9)
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Type: Depth (inches): marks: e to dig restrictions in roadside ditches, the /DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is <sup>5</sup> Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Water-Stained Leaves (B9) Inundation Visible on Aerial Imagery (E	e soil profile could not be o required; check all tha Salt Cr Aquat Hydro Dry-Se Orkere Thin M Other 57)	bserved. Soils are assumed hydric b t apply) rust (B11) ic Invertebrates (B13) gen Sulfide Odor (C1) ason Water Table (C2) ed Rhizospheres on Living Roots (C3 not tilled) ruce of Reduced Iron (C4) Auck Surface (C7)	ased on the hydrology and dominance of hydrophytic vegetation.    Secondary Indicators (minimum of two reque  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Oxidized Rhizospheres on Living Roots (C3)  (where tilled)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Yes Geomorphic Position (D2)  Yes FAC-Neutral Test (D5)
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