	D DETERMINATIO Marshall		RM - Great Pla	ains Region	2015 06 04
Project/Site: City	//County:			Sampling Date:	
Enbridge Applicant/Owner:		Minr State:	nesota	Sampling Point:	u-156n46w34-d1
ACM/KRG Investigator(s):	Se	ction, Townsł	nip, Range:		
talf Landform (hillslope, terrace, etc.):				linear l ex, none):	0-2 Slope (%):
Subregion (LRR or MLRA):	4 _ Latitude:	8.289320948	5 Longit	-96.54434231 ude:	
Minnesota State Plane North, NAD 83 Datum:	(2011) U.S. feet				
I24A Soil Map Unit Name:				NWI Classificatio	n:
Are climatic/hydrologic conditions on the site typical	for this time of yea	ır? (if no, expl	ain in Remarks)	:	Yes
Are Vegetation, Soil, or Hydrology	_ significantly distu	Irbed? Are "N	Iormal Circums	Yes tances" present?	
Are Vegetation, Soil, or Hydrology					
SUMMARY OF FINDINGS - Attach site map showi	ng sampling point l	locations, trai	nsects, importa	nt features, etc.	
Hydrophytic Vegetation Present?		Is the Samp	oled Area	No	
Hydric Soil Present?	0	within a W	etland?	No	
N Wetland Hydrology Present?	0	If yes, optic	onal Wetland Sit	te ID:	
Remarks: (Explain alternative procedures here or in	a separate report.)	•			
The upland point is located in a grazed pasture.					
VEGETATION - Use scientific names of plants.	Absolute	Deminent	la di sete e	Daminanaa Taat waxkabaati	
Tree Stratum (Plot Size:)	% Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1					(A)
2				Total Number of Dominant	(()
_				1	(-)
3				Species Across All Strata:	(B)
4				Percent of Dominant Species	
15	0=	Total Cover		That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot Size: 15) Symphoricarpos occidentalis	1.00 N			Prevalence Index worksheet:	
2.	<u>1.00</u>	0		Total % Cover of: OBL species 0.00	Multiply by: x 1 0
3				FACW species 10.00	x 2 20
4				FACU species 2.00	x 3 268
5				UPL species 51.00	
	1=	Total Cover		Column Totals 130	(A) <u>549</u> (B)
Herb Stratum (Plot Size: 5)				Prevalence Index = B/	A = 4.2230769
1. Bromus inermis	50.00 Ye	es	UPL	Hydrophytic Vegetation Indicators	:
2. Poa pratensis	25.00 N	0	FACU	1 - Rapid Test for Hydroph	nytic Vegetation
3. Taraxacum officinale	<u>20.00</u> <u>N</u>	0	FACU	no 2 - Dominance Test is > 50	0%
4. Trifolium repens	<u>10.00</u> <u>N</u>	0	FACU	no 3 - Prevalence Index is ≤ 3	.0 ¹
5. Solidago canadensis	<u>10.00</u> N		FACU	4 - Morphological Adaptat supporting data in Remarks or or	
6. Agrostis gigantea 7 Carex praegracilis	<u>5.00</u> <u>N</u>		FACW		
Circlement and an and a second		0	FACW	Problematic Hydrophytic Vegetation	n [±]
o	<u>2.00</u> <u>N</u>	0	FACU	(Explain)	
9. Juncus tenuis	<u>2.00</u> <u>N</u>	0	FAC	¹ Indicators of hydric soil and wetland hydro unless disturbed or problematic.	logy must be present,
10					
	129 =	Total Cover			
Woody Vine Stratum (Plot Size:)					
1					
2					
	0=	Total Cover			
% Bare Ground in Herb Stratum				Hydrophytic	
				Vegetation Present?	
Remarks: Vegetation is dominated by smooth brome.					
vegetation is dominated by smooth brome.					

	/n	1				<i>c</i> .		1 i)
		depth ne	eeded to document the			ntirm th	e absence of in	idicators.)
Depth inches)	Matrix Color (moist)	%	Redox Color (moist)	Features %	5 Type ¹	Loc ²	Texture	Remarks
	.0YR 2 1	100		/0	Type	LUC	LFS	loamy fine sand
	.0YR 4 3	- <u></u> 70	10YR 5 6	5	c	M	LFS	mixed matrix, loamy fine sand
	.0YR 2 1	- <u>/0</u> 25			. 		LFS	mixed matrix, loamy fine sand
13-10 1	.0111 2 1				·		LF3	
					·			
	tion D-Donlation RM-		Matrix, MS=Masked Sand G		·			² Location: PL=Pore Lining, M=Matr
lydric Soil Indicator		Reduced in	viatrix, ivis-iviaskeu sanu G	1 di 15.			Indicator	s for Problematic Hydric Soil ³ :
Histosol (A1)			Sandy Gleye	d Matrix ('	54)		_	n Muck (A9) (LRR I, J)
Histic Epiped			Sandy Redox		54)		_	st Prairie Redox (A16)(LRR K, L, R)
-			Stripped Ma				_	< Surface (S7) (LRR G)
Black Histic (/				. ,	(54) (100		_	
Hydrogen Sul			Loamy Muck			K, L)		n Plains Depressions (F16)
Stratified Lay			Loamy Gleye		(F2)			H outside of MLRA 72 & 73)
1cm Muck (A	9) (LRR F, G, H)		Depleted Ma	atrix (F3)			_	uced Vertic (F18)
Depleted Bel	ow Dark Surface (A11)		Redox Dark	Surface (F	6)		Red	Parent Material (F21)
Thick Dark Su	urface (A12)		Depleted Da	rk Surface	(F7)		Very	/ Shallow Dark Surface (TF12)
Sandy Mucky	/ Mineral (S1)		Redox Depre	essions (F8	3)		Othe	er (explain in remarks)
2.5cm Mucky	y Peat or Peat (S2)(LRR	G, H)	High Plains [Depressior	ns (F16)		31	
5cm Mucky P	Peat or Peat (S3) (LRR F)		(MLRA 7	2 & 73 of I	LRR H)			rs of hydrophytic vegetation and hydrology must be present, unless
							disturbed	or problematic.
astrictive Lover (if a		1						
lestrictive Layer (ii p	present):	L		I				
Type:	present):	L					Indria Cail Drasant	2 N0
Type: Depth (inche emarks:							Hydric Soil Present	? <u>No</u>
Type: Depth (inche emarks: No hydric soil indica IYDROLOGY Vetland Hydrolo rimary Indicator	es): ators were observed. , ogy Indicators: rs (minimum of one	is require	ed; check all that apply	_				condary Indicators (minimum of two required
Type: Depth (inche emarks: No hydric soil indica HYDROLOGY Vetland Hydrolo Primary Indicator Surface Wate	es): ators were observed. opgy Indicators: rs (minimum of one er (A1)	is require	Salt Crust (B11)	12)			condary Indicators (minimum of two required
Type: Depth (inche emarks: No hydric soil indica IYDROLOGY Vetland Hydrolo Irimary Indicator Surface Wate High Water T	es):ators were observed. , ogy Indicators: rs (minimum of one er (A1) Table (A2)	is require	Salt Crust (B11) ebrates (B				condary Indicators (minimum of two requirec Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Type: Depth (inche emarks: No hydric soil indica IYDROLOGY Vetland Hydrolo Primary Indicator Surface Wate High Water T Saturation (A	es): ators were observed. 	is require	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi) ebrates (B de Odor (0	C1)			<u>condary Indicators (minimum of two requirec</u> Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
Type: Depth (inche temarks: No hydric soil indica HYDROLOGY Wetland Hydrolc Primary Indicator Surface Wate High Water T	es): ators were observed. 	is require	Salt Crust (B11) ebrates (B de Odor (0 ter Table (C1) (C2)			condary Indicators (minimum of two requirec Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Type: Depth (inche kemarks: No hydric soil indica HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wate High Water T Saturation (A Water Marks	es): ators were observed. pgy Indicators: rs (minimum of one er (A1) Table (A2) A3) s (B1) eposits (B2)	is require	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season Wa) ebrates (B de Odor ((ter Table (spheres of	C1) (C2)			condary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3)
Type: Depth (inche lemarks: No hydric soil indica HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wate High Water T Saturation (A Water Marks Sediment De	es): ators were observed. pgy Indicators: rs (minimum of one er (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3)	is require	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season Wa Oxidized Rhizo) ebrates (B de Odor ((ter Table (spheres of d)	C1) (C2) n Living Ro			condary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled)
Type: Depth (inche lemarks: No hydric soil indica HYDROLOGY Netland Hydrolc Primary Indicator Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposit	es): ators were observed. pogy Indicators: rs (minimum of one er (A1) Table (A2) A3) s (B1) s (B1) s (B2) ts (B3) Crust (B4)	is require	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season Wa Oxidized Rhizo (where not tilled) ebrates (B de Odor (G ter Table (spheres of d) duced Iron	C1) (C2) n Living Ro			Condary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8)
Type: Depth (inche emarks: No hydric soil indica IYDROLOGY Vetland Hydrolo rimary Indicator Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or	es): ators were observed. pogy Indicators: rs (minimum of one er (A1) Table (A2) A3) s (B1) s (B1) s (B2) ts (B3) Crust (B4) s (B5)	is require	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season Wa Oxidized Rhizo (where not tille Presence of Re	- ebrates (B: de Odor ((ter Table (spheres of d) duced Iron face (C7)	C1) (C2) n Living Ro n (C4)			Condary Indicators (minimum of two required 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)
Type: Depth (inche temarks: No hydric soil indica HYDROLOGY Attack and Hydrolo Primary Indicator Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Water-Stain Inundation V	es): ators were observed. pogy Indicators: rs (minimum of one er (A1) Table (A2) A3) s (B1) sposits (B2) ts (B3) Crust (B4) s (B5) led Leaves (B9) //sible on Aerial Imagery		Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season Wa Oxidized Rhizo (where not tille Presence of Re Thin Muck Surf	- ebrates (B: de Odor ((ter Table (spheres of d) duced Iron face (C7)	C1) (C2) n Living Ro n (C4)			Condary Indicators (minimum of two required Surface Soil Cracks (B6) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Type: Depth (inche temarks: No hydric soil indica HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wate High Water T Saturation (<i>A</i> Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Water-Stain Inundation V Field Observation	es): ators were observed. opgy Indicators: rs (minimum of one er (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) eed Leaves (B9) //sible on Aerial Imagery ns:	r (B7)	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season Wa Oxidized Rhizo (where not tillee Presence of Re Thin Muck Suri Other (Explain) ebrates (B de Odor ((ter Table (spheres or d) duced Iron face (C7) in Remark	C1) (C2) n Living Ro n (C4) (S)			Condary Indicators (minimum of two required Surface Soil Cracks (B6) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) FAC-Neutral Test (D5)
Type: Depth (inche Remarks: No hydric soil indica HYDROLOGY Wetland Hydrolo Primary Indicator Surface Water High Water T Saturation (<i>A</i> Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Water-Stain Inundation V Field Observation Surface Water Pr	es): ators were observed. pogy Indicators: rs (minimum of one er (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) red Leaves (B9) //sible on Aerial Imagery ns: resent?	• (В7) <u>No</u>	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season Wa Coxidized Rhizo (where not tilled Presence of Re Thin Muck Surf Other (Explain Depth (inc) ebrates (B de Odor ((ter Table (spheres or d) duced Iron face (C7) in Remark	C1) (C2) n Living Ro n (C4) (S)			Condary Indicators (minimum of two required Surface Soil Cracks (B6) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) FAC-Neutral Test (D5)
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Type: Depth (inche emarks: No hydric soil indica ITDROLOGY Vetland Hydrolo Vetland Hydrolo Vetland Hydrolo Surface Water High Water T Saturation (# Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Water-Stain Inundation V Vield Observation Surface Water Pr Vater Table Press aturation Presen	es): ators were observed. pogy Indicators: rs (minimum of one er (A1) Table (A2) A3) s (B1) sposits (B2) ts (B3) Crust (B4) s (B5) red Leaves (B9) //sible on Aerial Imagery ns: resent? sent? mt?	(B7) <u>No</u>	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Dry-Season Wa Oxidized Rhizo (where not tilled Presence of Re Thin Muck Surf Other (Explain Depth (inc Depth (inc) ebrates (B de Odor ((ter Table (spheres of d) duced Iron face (C7) in Remark	C1) (C2) n Living Rd n (C4) (S)		<u>Sec</u> - - - - - - - - - - - - - -	Condary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Orainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
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Type: Depth (inche Remarks: No hydric soil indica HYDROLOGY Wetland Hydrolo Primary Indicator Surface Water High Water T Saturation (<i>A</i> Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Water-Stain Inundation V Field Observation Surface Water Pr Nater Table Press Saturation Preser includes capillar	es): ators were observed. pogy Indicators: rs (minimum of one er (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) red Leaves (B9) //sible on Aerial Imagery ns: resent? sent? sent? sent? y fringe)	(B7) <u>No</u> <u>No</u>	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Ory-Season Wa Oxidized Rhizo (where not tillee Presence of Re Thin Muck Suri Other (Explain Depth (inc Depth (inc	b) b) b) charates (B charates (C7) charates (C	C1) (C2) n Living Rc n (C4) (cs)	pots (C3)	<u>Sec</u> 	Condary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Orainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
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Type: Depth (inche Remarks: No hydric soil indica HYDROLOGY Netland Hydrolo Primary Indicator Surface Water High Water T Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Water-Stain Inundation V Field Observation Surface Water Press Saturation Preser includes capillar Describe Recorde Remarks:	es): ators were observed. r pgy Indicators: rs (minimum of one er (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) led Leaves (B9) //sible on Aerial Imagery ns: resent? sent? sent? trige) ed Data (stream gauger)	r (B7) <u>No</u> <u>No</u> ge, monit	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Ory-Season Wa Oxidized Rhizo (where not tillee Presence of Re Thin Muck Suri Other (Explain Depth (inc Depth (inc	ches)	C1) (C2) n Living Rc n (C4) (cs)	pots (C3)	<u>Sec</u> 	Condary Indicators (minimum of two required 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) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
Type: Depth (inche Remarks: No hydric soil indica HYDROLOGY Netland Hydrolo Primary Indicator Surface Water High Water T Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Water-Stain Inundation V Field Observation Surface Water Press Saturation Preser includes capillar Describe Recorde Remarks:	es): ators were observed. r pgy Indicators: rs (minimum of one er (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) s (B5) led Leaves (B9) //sible on Aerial Imagery ns: resent? sent? sent? trige) ed Data (stream gauger)	r (B7) <u>No</u> <u>No</u> ge, monit	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Ory-Season Wa Oxidized Rhizo (where not tille Presence of Re Thin Muck Surf Other (Explain Depth (inc Depth (inc toring well, aerial phote	ches)	C1) (C2) n Living Rc n (C4) (cs)	pots (C3)	<u>Sec</u> 	Condary Indicators (minimum of two required Surface Soil Cracks (86) Sparsely Vegetated Concave Surface (88) Drainage Patterns (810) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)
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Type: Depth (inche Remarks: No hydric soil indica HYDROLOGY Wetland Hydrolo Primary Indicator Surface Water High Water T Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Water-Stain Inundation V Field Observation Surface Water Press Saturation Preser (includes capillar Describe Recorded Remarks:	es): ators were observed. r ogy Indicators: rs (minimum of one er (A1) Table (A2) A3) s (B1) sposits (B2) ts (B3) Crust (B4) s (B5) led Leaves (B9) //sible on Aerial Imagery ns: resent? se	r (B7) <u>No</u> <u>No</u> ge, monit	Salt Crust (B11 Aquatic Inverte Hydrogen Sulfi Ory-Season Wa Oxidized Rhizo (where not tille Presence of Re Thin Muck Surf Other (Explain Depth (inc Depth (inc toring well, aerial phote	ches)	C1) (C2) n Living Rc n (C4) (cs)	pots (C3)	Sec - - - - - - - - - - - - - - - - - - -	Condary Indicators (minimum of two required Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Orainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F)