WETLAND DETERMINATION DATA FORM - Great Plains Region

L3R Project/Site: City	Marshal	II		Sampling Date:	2015-06-08
Enbridge Applicant/Owner:		Min State:	nesota	Sampling Point:	w-157n47w26-c1
Investigator(s): LEB/BCS	S	ection. Townsl	nip, Range:		
Landform (hillslope, terrace, etc.): LRR F Subregion (LRR or MLRA): Minnesota State Plane North, NAD 83	Latitude:		(concave, conv	СС	Slope (%):
Datum:				NWI Classification	on:
Are climatic/hydrologic conditions on the site typical	f		laia in Danaada)		Yes
Are Vegetation No., Soil No., or Hydrology No.	_ significantly dist	curbed? Are "N	Normal Circums	tances" present? Yes	
Are Vegetation, Soil, or Hydrology	naturally problem	atic? (If need	ed, explain any	answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map showi	ng sampling point es	locations, tra	nsects, importa	int features, etc.	
Hydrophytic Vegetation Present?	<u> </u>	Is the Sam	pled Area		
Hydric Soil Present?	es —	within a W	etland?	Yes ———	-
Y. Wetland Hydrology Present?	es 	If yes, option	onal Wetland Si	te ID:	
Remarks: (Explain alternative procedures here or in	a separate report.	.)			
The wetland is a small seasonally flooded basin on the	he edge of a corn t	field and drain	ing into an inter	mittent drainage ditch.	
VEGETATION - Use scientific names of plants.					
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species	
1			-	That Are OBL, FACW, or FAC: 2	(A)
2				Total Number of Dominant 2	
3				Species Across All Strata:	(B)
4				Percent of Dominant Species 100	
	0 :	= Total Cover		That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot Size:)				Prevalence Index worksheet:	
1			-	Total % Cover of: OBL species 15.00	Multiply by: x 1 15
3.			-	OBL species 15.00 FACW species 22.00	
4				FACU species 7.00	x 3 0
5			-	UPL species 0.00	x 4 <u>0</u>
	0 :	= Total Cover		Column Totals <u>44</u>	(A) <u>80</u> (B)
Herb Stratum (Plot Size: 5) Hordeum jubatum	45.00	V	546144	Prevalence Index = B/	
2. Rorippa palustris		Yes Yes	FACW OBL	Hydrophytic Vegetation Indicators yes 1 - Rapid Test for Hydroph	
3. Plantago major		No	FAC	yes 2 - Dominance Test is > 50	
4. Beckmannia syzigachne	5.00	No	OBL	yes 3 - Prevalence Index is ≤ 3	.01
5. Juncus torreyi		No	FACW	4 - Morphological Adapta supporting data in Remarks or o	
6. Erigeron philadelphicus Puccinellia distans		No No	FAC	Problematic Hydrophytic Vegetatio	
8	2.00	No	FACW	(Explain)	1
9				1 Indicators of hydric soil and wetland hydro	logy must be present,
				unless disturbed or problematic.	
10					
	44 :	= Total Cover			
Woody Vine Stratum (Plot Size:)					
1	-		-	-	
2	·		-	-	
% Bare Ground in Herb Stratum 56	0 =	= Total Cover		Hydrophytic Vegetation	
				Present?	
Remarks: The wetland vegetation is sparse and dominated by bog yellov	v cress with foxtail ba	rley on the wetla	nd margins.		

 SOIL
 Sampling Point:
 w-157n47...

ydric Soil Indicators: Indicators: Indicators: Indicators for Problematic Hydric Soil*: Histosol (A1)	1078 3 2 98 1078 3 0 2 C M sd 178 2 27 4 2 98 1078 3 0 2 C M sd 178 2 27 4 2 98 1078 3 0 2 C M sd 178 2 27 4 2 98 1078 3 0 2 C M sd 178 2 27 4 2 98 1078 3 0 2 C M sd 178 2 27 4 2 98 1078 3 0 2 C M sd 178 2 27 4 2 98 1078 3 0 2 C M sd 179 2 C-Concentration, D-Depoleton, Montheduced Matris, Mo-Masked Sand Gains. Proceducing Comment of Comment					Redox					
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Type: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Makede Sand Grains. Pistonol (A1)	Type: C-Consentration, D-Depletton, RM-Helduced Matrix, MS-Masted Sand Grains. Topic C-Consentration, D-Depletton, RM-Helduced Matrix, MS-Masted Sand Grains. Topic C-Consentration, D-Depletton, RM-Helduced Matrix, MS-Masted Sand Grains. Helduced Sand Grains.)-3	10YR 3 2	98	10YR 3 6		2	С	M	scl	
Pysec: C-Concentration, D-Depletion, RM-Reduced Matrix, MS-Masked Sand Grains. Public Soil Micitators: Indicators for Problematic Hydric Soil*	(Pyper: C-Concentration, D-Depletion, RM-Rischarded Sand Grains. "Location: R-Livine Linns, Mind Grains. "Location: R-Livine Linns, Mind Grains. "Location: R-Livine Linns, Mind Grains. "Location: R-Livine Linns, Mind Grains. "Hotocopies (A)	3-7	2.5Y 4 2	98	10YR 3 6		2	c	М	scl	
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Histosol (A1)	Histood (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A5)(RBR I, I) Histood (A2) Sandy Redox (S5) Coast Prairie Redox (A5)(RBR K, L, R) Histood (A3) Surique Matrix (S6) Coast Prairie Redox (A5)(RBR K, L, R) Hydrogen Salide (A4) Coamy Mucky Mineral (F3) (RBR K, L) High Prairo Decreasions (F1.6) Hydrogen Salide (A6) Coamy Mucky Mineral (F3) (RBR K, L) High Prairo Decreasions (F1.6) Stratified Lavers (A3) Coamy Mucky Mineral (F3) (RBR K, L) High Prairo Decreasions (F1.6) Stratified Lavers (A3) Coamy Mucky Mineral (F3) Reduced Vertic (F3.8) Depleted Beach Surface (A12) Depleted Bark Surface (F0) Red Pearrix Material (F2.1) Thick Dark Surface (A12) Depleted Bark Surface (F7) Very Shallow Dark Surface (F7.12) Sonn Mucky Peat or Peat (S2) (RBR F) High Prairo Decreasions (F1.6) Sonn Mucky Peat or Peat (S3) (RBR F) High Prairo Decreasions (F1.6) Sonn Mucky Peat or Peat (S3) (RBR F) High Prairo Decreasions (F1.6) Sonn Mucky Peat or Peat (S3) (RBR F) High Prairo Decreasions (F1.6) Hydric Soil Present? Yes Depth (Inches): Hydric Soil Present? Yes Depth (Inches): Hydric Soil Present? Yes Depth (Inches): Surface Water (A1) Soil Cruss (B1) Surface Soil Crucks (B6) Surface Water (A1) Soil Cruss (B1) Surface Soil Crucks (B6) Surface Water (A1) Soil Cruss (B1) Draysearch Water Table (A2) Drayse Patrix (B1) Drift Deposits (B3) Water Marks (B1) Draysearch Water Table (C2) Ookidated Rhisospheres on Living Roots (C3) Water Saliend Lavers (B9) Other (Explain in Remarks) Presence of Seduced From (C4) Source Patrix (B1) Surface Soil Cruss (B1) Water Saliend Lavers (B9) Other (Explain in Remarks) Presence of Seduced From (C4) Source Patrix (B1) Water Saliend Lavers (B9) Other (Explain in Remarks) Presence of Seduced From (C4) Source Patrix (B1) Water Saliend Lavers (B9) Other (Explain in Remarks) Presence of Seduced From (C4) Source Patr			=Reduced M	latrix, MS=M	lasked Sand Gr	ains.				
Histic Epipesion (A2) Sandy Redox (S5) Coast Prairie Redox (A16)(LRR K, L, R) Black Histic (A3) Stripped Matrix (S5) Dark Surface (S7) (LRR G, H) Hydrogen Sulfide (A4) Loamy Mucky Mineral [F1] (LRR K, L) High Plains Depressions (F16) Stratified Layers (A5) Loamy Mucky Mineral [F2] (LRR K, L) High Plains Depressions (F16) Stratified Layers (A5) Loamy Mucky Mineral [F2] (LRR K, L) High Plains Depressions (F16) Depleted Below Dark Surface (A12) Depleted Matrix (F3) Redox Dark Surface (F6) Red Parent Material (F21) Thick Dark Surface (A12) Depleted Dark Surface (F6) Red Parent Material (F21) Sandy Mucky Mineral (S1) Redox Depressions (F8) Other (explain in remarks) Scorn Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F8) Other (explain in remarks) Scorn Mucky Peat or Peat (S2) (LRR F, M) High Plains Depressions (F8) Other (explain in remarks) Scorn Mucky Peat or Peat (S2) (LRR F, M) High Plains Depressions (F8) Other (explain in remarks) Scorn Mucky Peat or Peat (S2) (LRR F, M) High Plains Depressions (F8) Other (explain in remarks) Scorn Mucky Peat or Peat (S2) (LRR F, M) High Plains Depressions (F8) Other (explain in remarks) Scorn Mucky Peat or Peat (S2) (LRR F, M) High Plains Depressions (F8) Other (explain in remarks) Scorn Mucky Peat or Peat (S2) (LRR F, M) High Plains Depressions (F8) Other (explain in remarks) Scorn Mucky Peat or Peat (S2) (LRR F, M) High Plains Depressions (F8) Hydric Soil Present? Yes Scorn Mucky Peat or Peat (S2) (LRR F, M) High Plains Depressions (F8) Hydric Soil Present? Yes Depth (inches) 0 Wetland Hydrology Indicators (minimum of two re search of the Card of the	Histot. Epipedon (A2)	_									
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Hydrogen Sulfide (A4)	Hydrogen Sulfide (A4) Stratified Layers (A5)	☐ Histic Epip ☐	pedon (A2)			Sandy Redox	(S5)			□ Co	ast Prairie Redox (A16)(LRR K, L, R)
Stratified Layers (A5)	Stratified Layers (AS) Loamy Gleyed Matrix (F2) LOAMY (AS) LOAMY (AS) LOAMY (AS) LOAMY (AS) (LIRR F, G, Hz) Depicted Matrix (F3) Reduced Vertic (F3) Reduced V	Black Hist	ic (A3)			Stripped Mat	trix (S6)			☐ Da	rk Surface (S7) (LRR G)
Icm Muck (A9) (LRR F, G, H)	cm Muck (A9) (IRR F, G, H)	Hydrogen	Sulfide (A4)			Loamy Muck	y Mineral	(F1) (LRR	K, L)	□ ні	gh Plains Depressions (F16)
Depleted Below Dark Surface (A11)	Depleted Below Dark Surface (A12) Depleted Below Dark Surface (A12) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Deplete	☐ Stratified	Layers (A5)			Loamy Gleye	d Matrix	(F2)		(LR	R H outside of MLRA 72 & 73)
Thick Dark Surface (A12)	Trick Dark Surface (A12)] 1cm Muck	(A9) (LRR F, G, H)		✓	Depleted Ma	itrix (F3)			Re	duced Vertic (F18)
Thick Dark Surface (A12)	Trick Dark Surface (A12)	¬				•		6)		Re	d Parent Material (F21)
Sandy Mucky Mineral (\$1)	Sandy Mucky Mineral (S1)	\neg									
2.5cm Mucky Peat or Peat (S2)(LRR G, H)	2.5cm Mucky Peat or Peat (52) (LRR G, H)	_									
Scm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) with and hydrology must be present, unless disturbed or problematic. setrictive Layer (if present): Type: Depth (inches): Betrictive Layer (if present): Pearl's: Hydric Soil Present? Wes Depth (inches) 0 Wetland Hydrology hydrology must see wetten wette	Scm Mucky Peat or Peat (S3) (LRR F)	— Sandy Mu — — — — — — — — — — — — — — — — — —	cky Mineral (S1)			Redox Depre	ssions (F8	3)		∐ Ot	her (explain in remarks)
Scm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) wetland hydrology must be present, unless disturbed or problematic.	Scm Mucky Peat or Peat (S3) (LRR F)	2.5cm Mu	icky Peat or Peat (S2)(LRR	G, H)		High Plains D	epression	ns (F16)		³ Indicat	ors of hydrophytic vegetation and
estrictive Layer (if present): Type: Depth (inches): Bemarks: edox concentrations were observed throughout the profile, and increased with depth. A depleted matrix was observed below 3 inches. WDROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two regets) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Dryf-Season Water Table (C2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Where middle of the presents (B13) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Water-Stained Leaves (B9) Iron Deposits (B5) Thin Muck Surface (C7) Water-Stained Leaves (B9) Iron Deposits (B5) Dryf (Explain in Remarks) Wester Present? Wester Depth (inches) Jeff Observations: Water Table (Present? Yes Depth (inches) Depth (inches) Wetland Hydrology Present? Ves Includes capillary fringe) Wetland Hydrology Present? Ves Includes capillary fringe)	Estrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes edox concentrations were observed throughout the profile, and increased with depth. A depleted matrix was observed below 3 inches. YPROLOGY //Petand Hydrology Indicators: rimary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required; check all that apply) Sourface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) Surface Water (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Sourface Soil Cracks (B6) Drift Deposits (B1) Dry Season Water Table (C2) Doirft Deposits (B2) Drift Deposits (B2) Drift Deposits (B3) (where not tilled) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Water (A1) Surface Water (A	5cm Muck	ky Peat or Peat (S3) (LRR F))		(MLRA 72	2 & 73 of	LRR H)			
Type:	Type:									disturbe	d or problematic.
Depth (inches): Hydric Soil Present? Yes Branks: Bedox concentrations were observed throughout the profile, and increased with depth. A depleted matrix was observed below 3 inches. YDROLOGY **Tetland Hydrology Indicators:** **Timary Indicators (minimum of one is required; check all that apply) **Secondary Indicators (minimum of two re Best Surface Water (A1) **Surface Soil Cracks (B6) **Sparsely Vegetated Concave Surface (B8) **Oxidized Rhizospheres on Living Roots (C3) **(where Itiled) **Crayfish Burrows (C8) **Surface Surface (C7) **Yes Geomorphic Position (D2) **yes FAC-Neutral Test (D5) **Inducation Visible on Aerial Imagery (B7) **Inducation Present?	Depth (inches): Hydric Soil Present? Yes edox concentrations were observed throughout the profile, and increased with depth. A depleted matrix was observed below 3 inches. YDROLOGY /*Vetland Hydrology Indicators: **imary Indicators (minimum of one is required; check all that apply) **Sourface Water (A1)	estrictive Layer	(if present):								
Depth (inches):	PORPHI (inches): emarks: edox concentrations were observed throughout the profile, and increased with depth. A depleted matrix was observed below 3 inches. **POROLOGY**	Type:								Hudric Cail Draca	yes Yes
PYDROLOGY Vetland Hydrology Indicators: Secondary Indicators (minimum of two received (mini	POROLOGY Vetland Hydrology Indicators:	.,,,,,									
Surface Water (A1) Surface Water (A2) Salt Crust (B11) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Water-Stained Leaves (B9) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Inundation Present? Yes Depth (inches) 6 Jeturation Present? Yes Depth (inches) 0 Wetland Hydrology Present? Yes Includes capillary fringe)	Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) Shigh Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Sturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Where tilled) Crayfish Burrows (C8) Agal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Water-Stained Leaves (B9) Inundation Visible on Aerial Imagery (B7) Seld Observations: Urface Water Present? Yes Depth (inches) Saturation Present? Saturation Present? Saturation Present? Saturation Present? Yes Depth (inches) Saturation Present? Saturation Present	Depth (in emarks: edox concentra	tions were observed throu	ughout the p	profile, and in	ncreased with	depth. A o	depleted n			
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High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Drift Deposits (B2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Water-Stained Leaves (B9) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Algal Mater Present? Yes Depth (inches) 6 Jaturation Present? Yes Depth (inches) 0 Wetland Hydrology Present? Yes Includes capillary fringe)	High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Water-Stained Leaves (B9) Iron Deposits (B5) Thin Muck Surface (C7) Wes Geomorphic Position (D2) Water-Stained Leaves (B9) Other (Explain in Remarks) Wes FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Weld Observations: Urface Water Present? Ves Depth (inches) 0 Wetland Hydrology Present? Ves Includes capillary fringe)	Depth (in emarks: edox concentral edox concentral edox concentral edox edox edox edox edox edox edox edox	GY Ology Indicators:					depleted n		is observed below	v 3 inches.
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