WETLAND DETERMINATION DATA FORM - Great Plains Region

SPP Project/Site: Cit	Polk y/County:			Sampling Date:	2015-07-13
Enbridge Applicant/Owner:		Min	nesota	Sampling Point:	w-149n42w2-b1
Investigator(s): LEB/ACM	Sec	ction, Townsl	nip, Range:		
Depression Landform (hillslope, terrace, etc.):		Local Relief	(concave, con	Conca vex, none):	0-2 Slope (%):
Subregion (LRR or MLRA):	47 Latitude:	7.748553915		-96.00082500 tude:	
Minnesota State Plane North, NAD 83 Datum:	_				
Soil Map Unit Name:				NWI Classification	on:
Are climatic/hydrologic conditions on the site typica	I for this time of year	r? (if no, expl	ain in Remarks):	Yes
Are Vegetation No No No No Are Vegetation No	significantly distu	rbed? Are "N	Normal Circums	tances" present?	
Are Vegetation No , Soil No , or Hydrology No	naturally problemat	tic? (If need	ed, explain any	answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map show	ing sampling point lo	ocations, tra	nsects, importa	ant features, etc.	
Hydrophytic Vegetation Present?	'es	Is the Sam	oled Area		
Hydric Soil Present?	'es	within a W	etland?	Yes	
	es	If yes, option	onal Wetland Si	te ID:	-
Remarks: (Explain alternative procedures here or in	a separate report.)	1			
The wetland is a fresh wet meadow in a roadside di	tch along Highway 5	9.			
VEGETATION - Use scientific names of plants.					
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species	
1					(A)
2				Total Number of Dominant	
3				Species Across All Strata:	(B)
4				Percent of Dominant Species	
	<u>0</u> = T	Total Cover		That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot Size:)				Prevalence Index worksheet:	
1				Total % Cover of:	Multiply by:
2				OBL species 37.00	x 1 <u>37</u>
3				FACW species 65.00	x 2 <u>130</u>
4				FACU species 0.00	x 3 <u>20</u>
5				UPL species 0.00	x 4 <u>0</u>
	<u>0</u> = T	Total Cover		i	(A) <u>187</u> (B)
Herb Stratum (Plot Size: 5 ft Phalaris arundinacea			5.0	Prevalence Index = B/	
1. Caray pellita	30.00 Ye		FACW	Hydrophytic Vegetation Indicators	
Lungue haltique	25.00 Ye		OBL FACW	yes 1 - Rapid Test for Hydroph yes 2 - Dominance Test is > 50	
3. Stachys pilosa	15.00 No		FACW	yes 2 - Dominance Test is > 50 yes 3 - Prevalence Index is ≤ 3	
5. Agrostis gigantea	10.00 No		FACW	4 - Morphological Adapta	
6. Lycopus americanus	5.00 No		OBL	supporting data in Remarks or o	
7. Symphyotrichum puniceum	5.00 No	<u> </u>	OBL	Problematic Hydrophytic Vegetatio	n^1
8. Poa pratensis	5.00 No	0	FACU	(Explain)	
9. Typha angustifolia	2.00 No	0	OBL	¹ Indicators of hydric soil and wetland hydro unless disturbed or problematic.	logy must be present,
10					
	<u>107</u> = T	Total Cover			
Woody Vine Stratum (Plot Size:)					
1	<u> </u>			_	
2.					
	0 = T	Total Cover	. -	1	
% Bare Ground in Herb Stratum	<u> </u>	otal cover		Hydrophytic Vegetation	
				Present?	
Remarks:					
The vegetation is consists of a mix of reed canary grass, wooll	y sedge, and Baltic rush.				

SOIL Sampling Point: w-149n42...

Type: C-Concettration, Dr-Oppletion, NN-Induced Marin, MS-Masked Sand Grains. Type: C-Concettration, Dr-Oppletion, NN-Induced Marin, MS-Masked Sand Grains. Indicators: Indicator	Depth Matrix		Redox F	Features				
Indicators: Histocopical (A) Sandy Gieyed Matrix (S4) Can Muck (A9) (LBR R. N. R.) Histocopical (A2) Sandy Redox (S5) Cast Prairie Redox (A5) (LBR K. N. R.) Black Histic (A3) Stripped Matrix (S5) Out-Strafec (S7) (LBR G) Hydrogen Sulfide (A4) Loarny Mucky Mineral (F3) (LBR K. L.) High Plairs Depressions (F16) Strained Layers (A5) Cast Prairie Redox (A5) (LBR K. L.) Loarny Mucky Mineral (F3) (LBR K. L.) High Plairs Depressions (F16) Loarny Mucky Mineral (F3) LBR K. L.) High Plairs Depressions (F16) Thick Dark Surface (A11) Redox Dark Surface (F6) Red Parent Material (F21) Thick Dark Surface (A12) Depleted Dark Surface (F6) Red Parent Material (F21) Standbucky Peat or Peat (S2) (LBR G. H.) High Plairs Depressions (F8) Plair Depressions or Hydrophysic segestation and weetland Hydrology must be present, unless disturbed or problematic. Strictive Layer (if present): Hydric Soil Present? Mind Strictive Layer (if present): Hydric Soil Present? Mydric Soil Present? Mydric Soil Present. Surface (S7) Surface (S7) Surface (S7) Mydric Soil Present. High Water Table (A2) Aqualitic Invertebrate (B13) Surface (S7) Surface (S7) Surface (S7) Surface (S7) Mydric Soil Present. Surface (S7) Mydric Soil Present. Mydric Soil Present. High Water Table (A2) Aqualitic Invertebrate (B13) Surface (S7) Surface (S8) Mydrogen Sulfide Obor (C1) Surface (S8) Surface (S8) Mydrogen Sulfide Obor (C1) Dirained Parents (B10) Surface (S8) Mydrogen Sulfide Obor (C1) Surface (S8) Presence of Reduced Iron (C4) Surface (C7) Mydrogen Sulfide Obor (C1) Iron Depots (B3) Water Matrix (B1) Dirained Parents (B10) Iron Muck (Mydrogen Matrix (B1) Dirained Parents (B10) Iron Muck (Mydrogen Matrix (B1) Mydrogen Sulfide Obor (C1) Mydrogen Sulfide Obor (C1) Surface Water Present? No Depth (Inches) Mydrogen Sulfide Obor (C1) Mydrogen Mydrogen Mydrogen Mydrogen Mydrogen My	nches) Color (moist)	%	Color (moist)	% ту	pe ¹ Loc ²	Texture	Rema	rks
Indicators: Historo (IAC) Sandy Gleyed Matrix (S4) Cross Muck (A9) (LBRR 1, LR R)								
Indicators: Hatoco (A1) Sandy Gleyed Matrix (54) Carm Muck (59) (LBR K, L, R) Hatoco (A1) Sandy Redex (S5) Cost Prairie Redox (A5) (LBR K, L, R) Black Histic (A3) Stripped Matrix (56) Dark Surface (57) (LBR G) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LBR K, L) High Pilairs Depressions (F16) Straffed Layers (A5) Loamy Mucky Mineral (F1) (LBR K, L) High Pilairs Depressions (F16) Straffed Layers (A5) Loamy Mucky Mineral (F1) (LBR K, L) High Pilairs Depressions (F16) Torn Muck (A9) (LBR F, G, H) Depleted Matrix (F2) (LBR K, L) High Pilairs Depressions (F16) Depleted Black (A5) Redox Construct (F6) Red Parent Material (F21) Thick Dark Surface (A11) Redox Construct (F6) Red Parent Material (F22) Sandy Mucky Mineral (S1) Redox Construct (F6) Redox Construct (F71) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) (LBR F1) High Pilairs Depressions (F8) Pilairs (F72) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) (LBR F1) High Pilairs Depressions (F8) Pilairs (F72) Pilairs (F72) Som Mucky Peat or Peat (S2) (LBR F1) High Pilairs Depressions (F8) Pilairs (F72) Som Mucky Peat or Peat (S13) (LBR F1) High Pilairs Depressions (F16) Som Mucky Peat or Peat (S13) (LBR F1) High Pilairs Depressions (F16) Som Mucky Peat or Peat (S13) (LBR F1) High Pilairs Depressions (F16) Som Mucky Peat or Peat (S13) (LBR F1) High Pilairs Depressions (F16) Som Mucky Peat or Peat (S13) (LBR F1) High Pilairs Depressions (F16) Som Mucky Peat or Peat (S13) (LBR F1) High Pilairs Depressions (F16) Som Mucky Peat or Peat (S13) (LBR F1) High Pilairs Depressions (F16) Som Mucky Peat or Peat (S13) (LBR F1) High Pilairs Depressions (F16) Som Mucky Peat or Peat (S13) (LBR F1) High Pilairs Depressions (F16) Som Mucky Peat or Peat (S13) (LBR F1) High Pilairs Depressions (F16) Som Mucky Peat or Peat (S13) (LBR F1) High Pilairs Depressions (F16) Som Mucky Peat								
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Histic Epipedon (AZ) Sandy Redox (25) Coast Prainin Redox (A15)(LRR K, L, R) Black Histic (A3) Dark Surface (A7) (LRR K, L) Industry Munical (F1) (LRR K, L) Swralled Layers (A5) Loarny Municy Mineral (F1) (LRR K, L) Issue Munic (A6) (LRR F, G, H) Depleted Matrix (F3) Reduced Vertic (F18) Issue Munic (A6) (LRR F, G, H) Depleted Dark Surface (F6) Red Parent Material (F21) Thick Dark Surface (A12) Depleted Dark Surface (F6) Red Parent Material (F21) Sandy Mucky Mineral (S11) Redox Dark Surface (F7) Very Shallow Dark Surface (F72) Sond Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F8) Depleted Dark Surface (A12) Depleted Dark Surface (F72) Very Shallow Dark Surface (F72) Sond Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F8) Depleted Dark Surface (A12) Depleted Dark Surface (F72) Very Shallow Dark Surface (F72) Sond Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F8) Depleted Dark Surface (A12) Depleted Dark Surface (F72) Very Shallow Dark Surface (F72) Sond Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F8) Depleted Dark Surface (A12) Depleted Dark Surface (F72) Very Shallow Dark Surface (F72) Sond Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F8) Depleted Dark Surface (A12) Depleted Dark Surface (F72) Very Shallow Dark Surface (F72) Depleted Dark Surface (A12) Depleted Dark Surface (F72) Present? Yes Depth (Inches) Surface Sond Dark Surface (F72) Su	7		Const. Clause	1 8 4 - 4 - 1 · · (C 4)			-	
Black Hotic (A3) Stripped Matrix (56) Dark Surface (77) (LRR 6) High Plains Depressions (F16) Stratified Layers (A5) Loamy Mucky Mineral (F3) (LRR K, L) High Plains Depressions (F16) Stratified Layers (A5) Depleted Botto (A1) Depleted Matrix (F2) (LRR H outside of MURA 72 & 73) Stratified Layers (A5) Depleted Botto (A1) Depl	7							8)
Hydrogen Suffice (A4)								, к)
Stratified Layers (A5) Learnly Gleyed Matrix (F2) Learn Muck (A9) (LRR F, G, H) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (A22) Depleted Dark Surface (F5) Red Aparent Material (F21) Thick Dark Surface (A22) Depleted Dark Surface (F7) Depleted Dark Surface (F7) Very Shallow Dark Surface (FF12) Sandy Mucky Mineral (S1) Redox Depressions (F8) 2.5cm Mucky Peat or Peat (S2)(LRR G, H) Som Mucky Peat or Peat (S2)(LRR G, H) Som Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) Setrictive Layer (if present): Type: Depth (inches): Depth (inches): Depth (inches) Surface Water (A1) Sulface Water	☐ Black Histic (A3)							
Icm Muck (A9) (LRR F, G, H)	Hydrogen Sulfide (A4)		Loamy Muck	y Mineral (F1)	(LRR K, L)	∐ High F	Plains Depressions (F16)	
Depleted Below Dark Surface (A11)	Stratified Layers (A5)		Loamy Gleye	d Matrix (F2)		(LRR H	outside of MLRA 72 & 73)	
Thick Dark Surface (A12) Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12)	1cm Muck (A9) (LRR F, G, H)		Depleted Ma	trix (F3)		Reduc	ced Vertic (F18)	
Sandy Mucky Mineral (S1)	Depleted Below Dark Surface (A11)		Redox Dark S	Surface (F6)		Red P	arent Material (F21)	
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piliph Plains Depressions (F8) Plains Depressions Depressions Plains Depressions (F8) Plains Depressions (F8) Plains Depressions Depressio	Thick Dark Surface (A12)		Depleted Dar	rk Surface (F7)		☐ Very S	Shallow Dark Surface (TF12)	
2.5cm Mucky Peat or Peat (\$2)(LRR 6, H)						_		
Som Mucky Peat or Peat (S3) (LRR F) (MIRA 72 & 73 of LRR H) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Estrictive Layer (if present): Type: Depth (inches): Bemarks: oils could not be sampled due to the location in a roadside ditch; soils are assumed to be hydric based on the landscape position and dominance of hydrophytic vegetation. WDROLOGY Vetland Hydrology Indicators: rrimary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Sulface Water (A1) Sulface Soil Cracks (86) High Water Table (A2) Aquatic Invertebrates (813) Sparsely Vegetated Concave Surface (8 Saturation (A3) Hydrogen Sulfide Odor (C1) Dor-lassen Water Table (C2) Sediment Deposits (82) Dor-lassen Water Table (C2) Dorid Deposits (83) (where not tilled) Crayfish Burrows (C3) Agal Mat or Crust (84) Presence of Reduced Iron (C4) Water Stained Leaves (89) Other (Explain in Remarks) Vess FAC-Neutral Test (D5) Into Moutastion Visible on Aerial Imagery (B7) leid Observations: Wetland Hydrology Present? No Depth (inches) Secondary Indicators (minimum of two research on the landscape position and dominance of hydrophytic vegetation. Water Table Present? No Depth (inches) Vess FAC-Neutral Test (D5) Into Moutastion Visible on Aerial Imagery (B7) Vess FAC-Neutral Test (D5) Into Moutastion Visible on Aerial Imagery (B7) Vess actual Hydrology Present? No Depth (inches) Depth (inches) Secondary Indicators (minimum of two research on the landscape position and dominance of hydrophytic vegetation. Vess actual Test (D5) Thin Muck Surface (C7) Vess Geomorphic Position (D2) Vess Geomorphic	\neg			. ,	-1	Li Other	(explain in remarks)	
disturbed or problematic. Type:	_							
setrictive Layer (if present): Type: Depth (inches): Depth (inches): Depth (inches): Depth (inches): Desth (inches): Desth (inches): Desth (inches): Dis could not be sampled due to the location in a roadside ditch; soils are assumed to be hydric based on the landscape position and dominance of hydrophytic vegetation. YDROLOGY // Vetland Hydrology Indicators: // Indicators (minimum of one is required: check all that apply) Surface Soil Cracks (Bo) High Water Table (A2) Salic Crust (B11) Surface Soil Cracks (Bo) High Water Table (A2) Aquatic invertebrates (B13) Sparsely Vegetated Concave Surface (B Saturation (A3) Hydrogen Sufface Odor (C1) Drillage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) Oridized Rhizospheres on Living Roots (C3) Water Marks (B1) Dry-Season Water Table (C2) Drill Deposits (B2) Where not tilled) Crayfish Burrows (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C1) Web Geomorphic Position (D2) Water-Stained Leaves (B9) Undation Visible on Aerial Imagery (B7) Veb Geomorphic Position (D2) Water-Stained Leaves (B9) Undation Visible on Aerial Imagery (B7) Veb Geomorphic Position (D2) Veb Geomorphic Po	— 5cm Mucky Peat or Peat (S3) (LRR F)	(MLRA 72	2 & 73 of LRR H	1)			ess
Type:						disturbed o	or problematic.	
Depth (inches):	estrictive Layer (if present):	Ш						
PAROLOGY Petland Hydrology Indicators: Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two research (as) Surface Soil Cracks (B6) Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B13) Sparsely Vegetated	Type:				H	ydric Soil Present?	Yes	
VDROLOGY	Depth (inches):							
Surface Water (A1) Salt Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface (B Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Water Marks (B1) Dry-Season Water Table (C2) 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 (C5) Water-Stained Leaves (B9) Iron Deposits (B5) Thin Muck Surface (C7) Wes Geomorphic Position (D2) Water-Stained Leaves (B9) Iron Much Surface (C7) Sediment Deposits (B5) Drift Deposits (B5) Thin Muck Surface (C7) Frost-Heave Hummocks (D7) (LRR F) Wes FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LRR F) Wetland Hydrology Present? No Depth (inches) Burrace Water Present? No Depth (inches) Saturation Present? Saturation Present? No Depth (inches) Saturation Present? Saturati	oils could not be sampled due to the loca	tion in a roadside	ditch; soils are assum	ed to be hydri	c based on the	landscape position	and dominance of hydrophy	tic vegetation.
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Saturation (A3)	oils could not be sampled due to the loca YDROLOGY Vetland Hydrology Indicators:				c based on the			
Water Marks (B1)	oils could not be sampled due to the loca YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one		neck all that apply)	ı.	c based on the		ondary Indicators (minim	
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Crayfish Burrows (C8) Algal Mat or Crust (B4) Iron Deposits (B5) Water-Stained Leaves (B9) Inundation Visible on Aerial Imagery (B7) eld Observations: urface Water Present? No Depth (inches) pesturation Present? No Depth (inches) pesturation Present? No Depth (inches) pesturation Present? ncludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	YDROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one Surface Water (A1)		neck all that apply)	<u>.</u>	c based on the		ondary Indicators (minim Surface Soil Cracks (B6)	um of two required
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