## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP	City/County: <u>Carlton</u>	Sampling Date <u>5/31/2014</u>
Applicant/Owner: Enbridge	State: MN	
Investigator(s): KRG/NTT	Section, To	wnship, Range:
Landform (hillslope, terrace, etc.) Talf		ncave, convex, noneVL
Slope (%): 0 - 2% Lat.: 46.588318	Long.: <u>-92.664096</u> Datum:	
Soil Map Unit Name: 268B		NWI Classification:
Are climatic/hydrologic conditions of the site typical Are vegetation, soil, or hydro		(If no, explain in remarks)
Are vegetation, soil, or hydro (If needed, explain any answers in remarks)	logy naturally problematic?	circumstances" present?
(ii needed, explain any answers in remarks)		
SUMMARY OF FINDINGS		
	le the compled area within	n a watland?
Hydrophytic vegetation present?  Hydric soil present?  N	Is the sampled area within	n a wetland? N
Indicators of wetland hydrology present?	If yes, optional wetland site	ID:
Domarko: (Evaloin alternative precedures here or i	a a apparata rapart )	
Remarks: (Explain alternative procedures here or in		asia bardwood forcat adiacont to an
The upland point is located upslope from the	e welland in a narrow strip of me	esic nardwood forest adjacent to an
open field.		
HYDROLOGY		
		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; ch		required)
	/ater-Stained Leaves (B9) quatic Fauna (B13)	Surface Soil Cracks (B6)
	arl Deposits (B15)	<ul><li>□ Drainage Patterns (B10)</li><li>□ Moss Trim Lines (B16)</li></ul>
	ydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
	xidized Rhizospheres on	☐ Crayfish Burrows (C8)
	ving Roots (C3)	☐ Saturation Visible on Aerial Imagery
` '	resence of Reduced Iron (C4)	(C9)
<u> </u>	ecent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
	oils (C6)	Geomorphic Position (D2)
	hin Muck Surface (C7)	<ul><li>☐ Shallow Aquitard (D3)</li><li>☐ Microtopographic Relief (D4)</li></ul>
☐ Sparsely Vegetated Concave ☐ O Surface (B8)	ther (Explain in Remarks)	FAC-Neutral Test (D5)
Surface (DO)		TAC-Neutral Test (D3)
Field Observations:		
Field Observations: Surface water present?  Yes	Depth (inches):	Indicators of
Surface water present?  Water table present?  Yes  Yes  U	Depth (inches):	wetland
Surface water present? Water table present? Saturation present? Yes Saturation present? Yes		wetland hydrology
Surface water present?  Water table present?  Yes  Yes  U	Depth (inches):	wetland
Surface water present? Water table present? Saturation present? (includes capillary fringe)  Yes Yes Yes Comparison Yes Ves Comparison Yes Yes Comparison Yes Yes Comparison Yes Yes Yes Yes Yes Yes Yes	Depth (inches):  Depth (inches):	wetland hydrology present? <u>N</u>
Surface water present? Water table present? Saturation present? Yes Saturation present? Yes	Depth (inches):  Depth (inches):	wetland hydrology present? <u>N</u>
Surface water present? Water table present? Saturation present? (includes capillary fringe)  Yes Yes Yes Comparison Yes Ves Comparison Yes Yes Comparison Yes Yes Comparison Yes Yes Yes Yes Yes Yes Yes	Depth (inches):  Depth (inches):	wetland hydrology present? <u>N</u>
Surface water present? Yes Water table present? Yes Saturation present? Yes Cincludes capillary fringe)  Describe recorded data (stream gauge, monitoring	Depth (inches):  Depth (inches):	wetland hydrology present? <u>N</u>
Surface water present? Yes Water table present? Yes Saturation present? Yes Cincludes capillary fringe)  Describe recorded data (stream gauge, monitoring Remarks:	Depth (inches):  Depth (inches):  well, aerial photos, previous inspection	wetland hydrology present? <u>N</u>
Surface water present? Yes Water table present? Yes Saturation present? Yes Cincludes capillary fringe)  Describe recorded data (stream gauge, monitoring	Depth (inches):  Depth (inches):  well, aerial photos, previous inspection	wetland hydrology present? <u>N</u>

cription:										
cription:										
		to the de	pth needed t				r confirm	the absence	of indicators.)	
pth Matrix n.) Color (moist) %		1 0/	Redox Features				<del> </del>	Remarks		
	(moist)	%	Color (m	ioist)	%	Type*	Loc**	Texture		
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e_7.5YR	3/3	100						SCL		
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Concent	otion D-D	anlation	DM-Daduas	d Matrix	00-00	varad ar C	antad C	and Crains		
			RIVI=Reduce	eu Mairix,	, CS=C0	vered or C	oaled S	and Grains		
	<u> </u>	Maanx					Indica	tors for Prob	lematic Hydric Soils:	
stic Epipe ack Histic drogen S atified La pleted Bo ick Dark ndy Muc ndy Gley ndy Redo ipped Ma rk Surfac	edon (A2) c (A3) Sulfide (A4) ayers (A5) elow Dark s Surface (A ky Mineral yed Matrix ( ox (S5) atrix (S6) ce (S7) ( <b>LR</b>	Suface (A 12) (S1) S4)	(S8   Thi   CLF   Los   Los	b) (LRR F n Dark S RR R, ML amy Muc RR K, L) amy Gley pleted Madox Dark pleted Dark pleted Dark pleted Dark	R, MLRA Surface (S LRA 149 Eky Miner ved Matri atrix (F3 a Surface ark Surfa ressions	x 149B) S9) B ral (F1) ix (F2) ) e (F6) ace (F7) (F8)	Co	past Prairie Recom Mucky Pearl Mucky Pearl Surface (Solyvalue Below in Dark Surfacen-Manganese edmont Floodpesic Spodic (Ted Parent Matery Shallow Daher (Explain in	v Surface (S8) (LRR K, L) ce (S9) (LRR K, L) Masses (F12) (LRR K, L, R) plain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) erial (F21) ark Surface (TF12) n Remarks)	
Restrictive Layer (if observed): Type: Depth (inches):							Hydric soil present? N			
ric soil i	indicators	were ol	oserved. T	he botto	om laye	rshowed	l dark s	treaks that	may have been charcoal.	
	e_7.5YR e_7.5YR e_7.5YR e_7.5YR  Concentr PL=Por il Indica stosol (A stic Epipe ick Histic drogen S atified La pleted B ick Dark ndy Muc ndy Gley ndy Red ipped Mi rk Surfac of hydro Layer (if	e_7.5YR 3/3 e_7.5YR 3/3 e_7.5YR 3/3 e_7.5YR 3/3 e_7.5YR 3/3  e_7.5YR 3/3  Concentration, D=D PL=Pore Lining, M il Indicators: stosol (A1) stic Epipedon (A2) ack Histic (A3) drogen Sulfide (A4) atified Layers (A5) pleted Below Dark sick Dark Surface (A ndy Mucky Mineral ndy Gleyed Matrix ( ndy Redox (S5) ipped Matrix (S6) rk Surface (S7) (LR of hydrophytic vego Layer (if observed)	e_7.5YR 3/3 100 e_7.5YR 3/3 100 e_7.5YR 3/3 100  Concentration, D=Depletion, PL=Pore Lining, M=Matrix il Indicators: stosol (A1) stic Epipedon (A2) ack Histic (A3) drogen Sulfide (A4) atified Layers (A5) pleted Below Dark Suface (A12) ndy Mucky Mineral (S1) ndy Gleyed Matrix (S4) ndy Redox (S5) ipped Matrix (S6) rk Surface (S7) (LRR R, MLI of hydrophytic vegetation an Layer (if observed):	e_7.5YR 3/3 100 e_7.5YR 3/3 100 e_7.5YR 3/3 100  Concentration, D=Depletion, RM=Reduce PL=Pore Lining, M=Matrix il Indicators:  Stosol (A1)	e_7.5YR 3/3 100 e_7.5YR 3/3 100  e_7.5YR 3/3 100  Concentration, D=Depletion, RM=Reduced Matrix PL=Pore Lining, M=Matrix  il Indicators:  ctosol (A1) ctic Epipedon (A2) ctic Epipedon (A2) ctic Histic (A3) drogen Sulfide (A4) atified Layers (A5) pleted Below Dark Suface (A11) ctic Dark Surface (A12) ctic Dark Surface (A13) ctic Dark Surface (A14) ctic Dark Surface (A15) ctic Dark Surface (A15) ctic Dark Surface (A16) ctic Epiped Matrix (S4) ctic Epipedon (A2) ctic	e_7.5YR 3/3 100 e_7.5YR 3/3 100  Concentration, D=Depletion, RM=Reduced Matrix, CS=Co PL=Pore Lining, M=Matrix  il Indicators:  ctosol (A1)	e_7.5YR 3/3 100 e_7.5YR 3/3 100  Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or CPL=Pore Lining, M=Matrix  ii Indicators:  stosol (A1) ctic Epipedon (A2) ck Histic (A3) drogen Sulfide (A4) atified Layers (A5) pleted Below Dark Surface (A11) ck Dark Surface (A12) cndy Mucky Mineral (S1) ndy Gleyed Matrix (S4) ndy Redox (S5) ipped Matrix (S6) rk Surface (S7) (LRR R, MLRA  of hydrophytic vegetation and wetland hydrology must be present, under the content of the content o	e_7.5YR 3/3 100 e_7.5YR 3/3 100  Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated S. PL=Pore Lining, M=Matrix  il Indicators:	e_7.5YR 3/3 100	