## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP Ci	ty/County: Wadena	Sampling Date: 9/8/2014		
Applicant/Owner: Enbridge	State: N			
Investigator(s): BEH/RAJ	Section,	Township, Range:		
Landform (hillslope, terrace, etc.): Footslope	Local relief (c	concave, convex, none LV		
Slope (%): 3 - 7% Lat.: 46.79672264 Lo	ng.: -94.91177731 Datur	m:		
Soil Map Unit Name: 458C		NWI Classification:		
Are climatic/hydrologic conditions of the site typical for the		(If no, explain in remarks)		
Are vegetation, soil, or hydrology	significantly disturbed			
Are vegetation, soil, or hydrology	naturally problematic	? circumstances" present?		
(If needed, explain any answers in remarks)				
SUMMARY OF FINDINGS	1			
Hydrophytic vegetation present? N	Is the sampled area with	hin a wetland? N		
Hydric soil present? N				
Indicators of wetland hydrology present? N	If yes, optional wetland si	te ID:		
Demortos (Evalain alternativa preseduras hara ar in a sa				
Remarks: (Explain alternative procedures here or in a se		a a adda maadaw dapraasian		
The upland sample point is located in a fire-depe	endent lorest, upsiope from	r a seuge meadow depression.		
HYDROLOGY				
		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is required; check a		required)		
	Stained Leaves (B9)	Surface Soil Cracks (B6)		
	c Fauna (B13)	Drainage Patterns (B10)		
	eposits (B15)	Moss Trim Lines (B16) Dry-Season Water Table (C2)		
	ed Rhizospheres on Living	Crayfish Burrows (C8)		
Drift Deposits (B3) Roots		Saturation Visible on Aerial Imagery		
	ice of Reduced Iron (C4)	(C9) Stunted or Stressed Plants (D1)		
Inundation Visible on Aerial Soils (	t Iron Reduction in Tilled	Geomorphic Position (D2)		
	uck Surface (C7)	Shallow Aquitard (D3)		
	Explain in Remarks)	Microtopographic Relief (D4)		
Surface (B8)		FAC-Neutral Test (D5)		
Field Observations:				
Surface water present? Yes	Depth (inches):	Indicators of		
Water table present? Yes	Depth (inches):	wetland		
Saturation present? Yes	Depth (inches):	hydrology		
(includes capillary fringe)		present? N		
Describe recorded data (stream gauge, monitoring well,	aerial photos, previous inspecti	ions), if available:		
Remarks:				
No primary or secondary hydrological indicator	s were observed			

VEGETATION - Use scientific names of plan	Sampling Point:	int: WA004a1U							
			50/20 Thresholds						
Tree Stratum Plot Size ( 30 ft )		inant Indicator	20% 50%						
,	% Cover Spe		Tree Stratum 15 38						
1 Produktisenderingholdes		Y FAC	Sapling/Shrub Stratum 7 17						
2 Philipseine		N FACU N FACU	Herb Stratum 22 55						
3 Promuseseinotina	<u> </u>	N FACU	Woody Vine Stratum 0 0						
5			Dominance Test Worksheet						
6									
7			Number of Dominant						
8			Species that are OBL, FACW, or FAC: 1 (A)						
9									
10			Total Number of Dominant Species Across all Strata: 5 (B)						
	75 = Total	Cover	· · · · · · · · · · · · · · · · · · ·						
	<u> </u>	Cover	Percent of Dominant						
Sapling/Shrub	Absolute Dom	inant Indicator	Species that are OBL, FACW, or FAC: 20.00% (A/B)						
Stratum Plot Size ( 15 ft )		cies Status	FACW, OF FAC. $20.00\%$ (A/B)						
		_	Decision of the Westerland						
1     Conversional       2     Conversional		Y FACU Y FACU	Prevalence Index Worksheet						
3 Ostral Girinhana		Y FACU N FACU	Total % Cover of: OBL species 0 x 1 = 0						
4	<u> </u>	ACU FACU	OBL species0 $x 1 =$ 0FACW species5 $x 2 =$ 10						
5			FAC species $60 \times 3 = 180$						
6			FACU species $93 \times 4 = 372$						
7			UPL species $0 \times 5 = 0$						
8	·		Column totals 158 (A) 562 (B)						
9			Prevalence Index = $B/A = 3.56$						
10									
	<u>33</u> = Total	Cover							
			Hydrophytic Vegetation Indicators:						
Herb Stratum Plot Size ( 5 ft )		inant Indicator	Rapid test for hydrophytic vegetation						
,	% Cover Spe		Dominance test is >50%						
1     Carecept/svl/vanica       2     CorlyLusrarigenicana		Y NI Y FACU	Prevalence index is ≤3.0* Morphological adaptations* (provide						
3 Pteriolium aquilinum		N FACU	supporting data in Remarks or on a						
4 Oyyzappsis asparifolia			separate sheet)						
5 Maianthemumaanadense		N FACU	Problematic hydrophytic vegetation*						
6 Wiałanapaphoropanylla		N FACW	(explain)						
7 Vacciniuanganguatifolium	5	N FACU	*Indicators of hydric soil and wetland hydrology must be						
8			present, unless disturbed or problematic						
9									
10			Definitions of Vegetation Strata:						
11			Tree - Woody plants 3 in. (7.6 cm) or more in diameter at						
12			breast height (DBH), regardless of height.						
14									
15			<b>Sapling/shrub</b> - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.						
	110 = Total	Cover							
Woody Vine			Herb - All herbaceous (non-woody) plants, regardless of						
Stratum Plot Size ( 30 ft )	Absolute Dom	inant Indicator	size, and woody plants less than 3.28 ft tall.						
	% Cover Spe	cies Status	Woody vines - All woody vines greater than 3.28 ft in						
1			height.						
2									
3									
			Hydrophytic						
5			vegetation						
	0 = Total	Cover	present? N						
Demontos (Include et al. et al. et al. et									
Remarks: (Include photo numbers here or on a separ	The canopy is dominated by quaking aspen with a shrub layer of American hazelnut and bur oak saplings. The ground layer								
The callupy is dominated by quaking asper	i with a sillub layer	or American nazemu	a and bui bak sapilitys. The ground layer						

is dominated by Pennsylvania sedge and American hazelnut. g

SOIL								Samp	ling Point:	WA004a1U
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth		Matrix			Redox F				1	
(In.)	Color	(moist)	%	Color (m	Color (moist) %			Loc**	Texture	Remarks
0-11	Hue_7.5YR	3/2	100	(			Type*		SL	
11-21	Hue_10YR	6/3	75						LS	
11-21	Hue_10YR	3/2	25						SL	
11-21	The_TOTK	5/2	25						0L	
*Tupo:	C-Concentr	ation D-Do	plotion	, RM=Reduced	Motrix C	S-Cov	orod or Co	atod Sar	d Graina	
	ion: PL=Pore				i Matrix, C	5=000		aleu Sai	iu Grains	
Hydric	Soil Indicat	ors:						Indicat	ors for Prob	plematic Hydric Soils:
Histosol (A1)       Polyvalue Below Surface       2 cm Muck (A10) (LRR K, L, MLRA 149B         Histoc Epipedon (A2)       (S8) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       (LRR R, MLRA 149B)       Dark Surface (S7) (LRR K, L         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1)       Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F3)       Polyvalue Below Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F6)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149         Sandy Redox (S5)       Depleted Dark Surface (F7)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)							edox (A16) (LRR K, L, R) at or Peat (S3) (LRR K, L, R) S7) (LRR K, L w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) in Remarks)			
Restrictive Layer (if observed): Type: Depth (inches):							Hydric soil present? <u>N</u>			
		•	underl	ain by loamy	sand mix	ked wi	ith dark s	andy lo	am; the pro	ofile does not meet any