WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

| Project/Site: SPP | City/County: Clearwater Sampling Date: 5/24/2014 | | | | | | | |
|---|--|-----------------------------|--|--|--|--|--|--|
| Applicant/Owner: Enbridge | State: MN Sampling Point: CLC5 | 5012j1W | | | | | | |
| Investigator(s): EAB/RAJ | Section, Township, Range: | | | | | | | |
| Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): CC | | | | | | | |
| Slope (%): <u>0 - 2%</u> Lat.: <u>47.636707</u> | Long.: -95.399714 Datum: | | | | | | | |
| Soil Map Unit Name: 718B | NWI Classification: PFO1C | | | | | | | |
| Are climatic/hydrologic conditions of the site typical | | | | | | | | |
| Are vegetation, soil, or hydrol | | _ | | | | | | |
| Are vegetation \square , soil \square , or hydrol | ogy naturally problematic? circumstances" prese | ent? 🗹 | | | | | | |
| (If needed, explain any answers in remarks) | | | | | | | | |
| | | | | | | | | |
| SUMMARY OF FINDINGS | | | | | | | | |
| COMMAN OF THE DINES | | | | | | | | |
| Hydrophytic vegetation present? Y | Is the sampled area within a wetland? | | | | | | | |
| Hydric soil present? | <u> </u> | | | | | | | |
| Indicators of wetland hydrology present? | If yes, optional wetland site ID: | | | | | | | |
| Deposites (Fundain alternative massed used house or in | | | | | | | | |
| Remarks: (Explain alternative procedures here or in | | | | | | | | |
| i ne wetiand is a forested, depressional verr | nal pool dominated by black ash and red maple. | | | | | | | |
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| | | | | | | | | |
| HYDROLOGY | | | | | | | | |
| ☑ High Water Table (A2) ☑ Saturation (A3) ☑ Water Marks (B1) ☑ Sediment Deposits (B2) ☑ Drift Deposits (B3) ☑ Algal Mat or Crust (B4) ☑ Iron Deposits (B5) ☑ Inundation Visible on Aerial Imagery (B7) ☑ Adad Ada Action ☑ Action<!--</td--><td>Secondary Indicators (minim required) ater-Stained Leaves (B9) quatic Fauna (B13) arl Deposits (B15) Adrogen Sulfide Odor (C1) Addized Rhizospheres on Aving Roots (C3) esence of Reduced Iron (C4) ecent Iron Reduction in Tilled bils (C6) ain Muck Surface (C7) ther (Explain in Remarks) Secondary Indicators (minim required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria (C9) Stunted or Stressed Plants Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D</td><td>C2) Il Imagery s (D1)</td> | Secondary Indicators (minim required) ater-Stained Leaves (B9) quatic Fauna (B13) arl Deposits (B15) Adrogen Sulfide Odor (C1) Addized Rhizospheres on Aving Roots (C3) esence of Reduced Iron (C4) ecent Iron Reduction in Tilled bils (C6) ain Muck Surface (C7) ther (Explain in Remarks) Secondary Indicators (minim required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria (C9) Stunted or Stressed Plants Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D | C2) Il Imagery s (D1) | | | | | | |
| Field Observations: Surface water present? Water table present? Saturation present? (includes capillary fringe) Yes Yes I | Depth (inches): 2 Indicators of wetland hydrology present? Y | _ | | | | | | |
| Describe recorded data (stream gauge, monitoring | well, aerial photos, previous inspections), if available: | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Remarks: | | | | | | | | |
| | s, and the soils were saturated at the surface. Standing w | vater was | | | | | | |
| | , and the sens were educated at the editate. Otherwing w | | | | | | | |
| | present in other areas of the wetland. | | | | | | | |

| SUIL | | | | | | | | Samp | ling Point: | CLC5012J1W |
|----------|--|--|---------|-----------------|-------------|-----------|------------|------------|-----------------|--|
| Profile | Description: | (Describe | to the | depth needed to | o docume | nt the ir | ndicator o | r confirm | the absence | of indicators) |
| | | Matrix | to tile | deptil needed t | | | | COMMITTE | life absence | of indicators.) |
| Depth | Matrix Redox Features Color (moist) % Color (moist) % | | | | | | | Loc** | Touture | Remarks |
| (ln.) | | <u>` </u> | _ | Color (III | oist) | % | Type* | LOC | Texture | |
| 0-5 | Hue_10YR | | 100 | | | | | | MMI | |
| 5-18 | Hue_10YR | 6/2 | 90 | Hue_10YR | 4/6 | 10 | С | M | SICL | |
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| | | | | n, RM=Reduce | d Matrix, C | CS=Cov | ered or C | oated Sa | and Grains | |
| **Locat | ion: PL=Por | e Lining, M | =Matri | X | | | | | | |
| Hydric | Soil Indica | tors: | | | | | | Indicat | tors for Prob | lematic Hydric Soils: |
| | Histosol (A | 1) | | □ Pol | yvalue Bel | low Sur | face | | m Muck (A10 |) (LRR K, L, MLRA 149B |
| | Histic Epipe | | | |) (LRR R, | | | | | edox (A16) (LRR K, L, R) |
| + | Black Histic | | | | n Dark Su | | | | | at or Peat (S3) (LRR K, L, R) |
| ∺ | Hydrogen S | | | | R R, MLR | | | | irk Surface (S | |
| | Stratified La | | | | my Mucky | | | | | Surface (S8) (LRR K, L) |
| Ħ | Depleted B | | Suface | | RK, L) | | , | | | ce (S9) (LRR K, L) |
| ▕ | Thick Dark | | | | my Gleye | d Matrix | k (F2) | | | e Masses (F12) (LRR K, L, R) |
| | Sandy Muc | | | | oleted Mat | | | | | plain Soils (F19) (MLRA 149B) |
| | Sandy Gley | | | | dox Dark S | | | | | A6) (MLRA 144A, 145, 149B) |
| | Sandy Red | | | □ Dep | oleted Darl | k Surfa | ce (F7) | | d Parent Mat | |
| | Stripped Ma | | | | dox Depre | ssions (| (F8) | | | ark Surface (TF12) |
| | Dark Surface | ce (S7) (LR | RR, N | ILRA | | | | Otl | her (Explain ir | n Remarks) |
| | | | | | | | | | | |
| *Indicat | tors of hydro | phytic vege | etation | and wetland hy | drology m | iust be | present, u | ınless dis | sturbed or pro | blematic. |
| | | | | | | | | | | |
| | tive Layer (it | f observed): | | | | | | | | |
| Type: | | | | | | | | Hydrid | c soil presen | t? <u>Y</u> |
| Depth (| (inches): | | | | | | | | | |
| Remark | ζδ. | | | | | | | | | |
| | | d clay is r | recer | nt at the surfa | CE | | | | | |
| ivido | ky modine | u ciay is p | 71 0301 | it at the suna | Ю. | | | | | |
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