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Abbreviations and Acronyms

EIS	environmental impact statement
IAAC	Impact Assessment Agency of Canada
LMOC	Lake Manitoba outlet channel
m asl	metres above sea level
WRB	Water Resources Branch

QUESTION IAAC-28B

EIS Guideline Reference: 7.1.4 Groundwater and Surface Water

EIS Reference: 6.4.2. Existing Conditions for Groundwater

Context and Rationale

Incorrect labelling of the wells in EIS.

Information Requests

a) Clarify the discrepancy between the text in the EIS describing Manitoba Water Resources Branch Wells WRB122050 and WRB116766 and the information in Volume 2 Appendix 6B Figure 6.4B-3.

Response IAAC-28b

a) **Errata** – The WRB well identification numbers were inadvertently mis-referenced in the EIS text.

Page 6.150 of the EIS should read:

"The aquifer pressure head varies seasonally as shown at two long term monitoring wells from the Province of Manitoba Water Resources Branch (WRB 122050 and WRB-116766). The upland well (WRB ~~122050~~ **116766**) piezometric head varies between 272 and 277 m asl (see Volume 2 Appendix 6B, Figure 6.4B-3), rising after spring snow melt and dropping over the winter, indicating that recharge is occurring in the uplands at elevation above 277 m asl.

LMOC

The carbonate aquifer in the area of the LMOC is overlain by 5 m to 18 m of till. The LMOC is located in the Birch Creek valley with the ground surface being at 246 m asl to 250 m asl. The piezometric head in this area, ranging from 249 m asl to 255 m asl, is higher than ground surface, or up to 5 m above ground level; because the bedrock aquifer is confined, it is entirely saturated. Seasonal variation in the area, as measured by the long-term monitoring well (WRB ~~116766~~ **122050**) shows that the piezometric head varies between 252 m asl and 256 m asl (Volume 2 Appendix 6B, Figure 6.4B-4). Typical seasonal piezometric head varies 2.5 m to 3 m per year in the aquifer in the area of the LMOC. The variation is consistent with the upland well (WRB ~~122050~~ **116766**) indicating the source of water for both is from the upland area."