

EXECUTIVE SUMMARY

HGC Engineering was retained by Union Gas Limited to undertake an Acoustic Assessment of the Edy's Mills Pool Station in Dawn Township, Ontario. The study is required in support of an application for a Comprehensive Certificate of Approval (C of A) to the Ministry of Environment (MOE). The assessment considers all existing operable sound sources at the facility.

Source sound level measurements of existing sources were conducted at the facility on June 20, 2007. The measured source sound levels were used as input to a predictive acoustical model to quantify the environmental sound emissions associated with the facility. Acoustic assessment criteria were established in accordance with the sound level limits in MOE guideline NPC-232.

The measurements and analysis indicate that noise emissions from the Edy's Mills Pool Station are within the applicable limits, as set out in MOE publication NPC-232, during a predictable worst case hour of operation at the station.

Table A3: Acoustic Assessment Summary Table

| Point of Reception | Point of Reception Description | Sound Level at Point of Reception, L_{EQ} [dBA] | Verified by Acoustic Audit | Performance Limit, L_{EQ} [dBA] | Compliance with Performance Limit |
|--------------------|--|---|----------------------------|-----------------------------------|-----------------------------------|
| R1 | Upper storey window of two storey home approx. 580 metres northwest of station | 30 | N | 40 | Y |
| R2 | Upper storey window of two storey home approx. 615 metres southwest of station | 28 | N | 40 | Y |
| R3 | Upper storey window of two storey home approx. 770 metres northeast of station | 30 | N | 40 | Y |
| R4 | Upper storey window of two storey home approx. 780 metres southeast of station | 32 | N | 40 | Y |