

EXECUTIVE SUMMARY

HGC Engineering was retained by Union Gas Limited to undertake an Acoustic Assessment of the Bickford Pool Station in Sombra Township, Ontario. Previously, HGC Engineering prepared an Acoustic Assessment Report (“AAR”) in 2008 [1]. This updated AAR documents the complete removal of the Sombra unit from service and upgrades to the Bickford unit since the original AAR. This report serves to satisfy condition 5.1(2) of Environmental Compliance Approval 1949-7KRMC5, dated November 28, 2008, which requires that a current AAR be maintained.

Source sound level measurements of existing sources were conducted at the facility on August 29, 2007 and September 12, 2012. 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-205.

The measurements and analysis indicate that, with the noise control measures recommended herein, the sound levels of the Bickford Pool Station will comply with the sound level criteria of MOE publication NPC-205 during a predictable worst case hour of operation at the station.

Table B3: Acoustic Assessment Summary Table - Future, Mitigated

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
		Day	Night		Day	Night	
R1	Upper storey window of two storey home approx. 195 metres SW of station	46	45	Yes	50	45	Yes/Yes
R2	Single storey home approx. 250 metres SE of station	41	41	Yes	50	45	Yes/Yes