Agreement No. CE 10/2014 (CE) Development of Anderson Road Quarry Site - Investigation, Design and Construction EIA Report for Rock Cavern Developments

Predicted Maximum Sound Power Level for Ventilation Shaft for Rock Cavern at +200mPD

NSR ID					Noise Criteria, dB(A)									
	Description	ASR	Affected by IF?	ANL-5	Background Noise Measurement ⁽¹⁾	Noise Criteria	Noise Sources	Maximum Allowable SWL, dB(A)	Approxmated Dist., m	Distance Attenuation, dB(A)	Tonality Correction, dB(A)	Façade Correction, dB(A)	SPL, dB(A)	
					Day and Evening	•		Day and Evening				Day and Evening	Compliance? (Y/N)	
	Private Housing, ARQ Site R2-1			60	50	56	Rock Cavern at +200mPD	93	80	-46	3	3	53	N/
R2-1-R006		в	Not Affected		96		Proposed Pumping Station ⁽²⁾	97	220	-55	3	3	48	Y
Maximum Allowable SWL (Day and Evening) of Ventilation Shaft of Proposed Rock Cavern at +200mPD, dB(A)												B(A) 93		

NSR ID					Noise Criteria, dB(A)										
	Description	ASR	Affected by IF?	ANL-5	Background Noise Measurement ⁽¹⁾	Noise Criteria	Noise Sources	Maximum Allowable SWL, dB(A)	Approxmated Dist., m	Distance Attenuation, dB(A)	Tonality Correction, dB(A)	Façade Correction, dB(A)	SPL, dB(A)		
					Night			Night					N	light	Compliance? (Y/N)
R2-1-R006	Private Housing, ARQ Site R2-1	P	Not Affected	50	40	49	Rock Cavern at +200mPD	86	80	-46	3	3	46		Y
		В	Not Allected		49		Proposed Pumping Station ⁽²⁾	94	220	-55	3	3	45		
Maximum Allowable SWL (Night-time) of Ventilation Shaft of Proposed Rock Cavern at +200mPD, dB(A)												86			

Note:

(1) Background Noise Measurement is adpoted from the approved EIA report for Development of Anderson Road Quarry (EIA-222/2014).

(2) Maximum Allowable SWL of the Proposed Pumping Station is adpoted from the approved EIA report for Development of Anderson Road Quarry (EIA-222/2014).

(3) If the noise exhibits any tonality, intermittency or impulsiveness characteristics during the operation of the plant, the noise design limit (Maximum Allowable SWL) should be reduced to absorb these corrections in accordance with the recommendation given in IND-TM. (4) Maximum Allowable SWL (Day and Evening / Night) of Ventilation Shaft of Proposed Rock Cavern at +200mPD might subject to change if the exact location of the Ventilation Shaft is confirmed.

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Predicted Maximum Sound Power Level for Ventilation Shaft for Rock Cavern at +200mPD

					Noise Criteria, dB(A)										
NSR ID	Description	ASR	Affected by IF?	ANL-5	Background Noise Measurement ⁽¹⁾	Noise Criteria	Noise Sources	Maximum Allowable SWL, dB(A)	Approxmated Dist., m	Distance Attenuation, dB(A)	Tonality Correction, dB(A)	Façade Correction, dB(A)	SPL, dB(A)		
					Day and Evening	•		Day and Evening					Day and Eveni	ng	Compliance? (Y/N)
	Private Housing,	5			50	Rock Cavern at +200mPD 93 195 -54 3 3 4	45		Y						
R2-2-R013	ARQ Site R2-2	2 B Not Affected 60 56	96	56	Proposed Pumping Station ⁽²⁾	97	180	-53	3	3	50	51	Ŷ		
Maximum Allowable SWL (Day and Evening) of Ventilation Shaft of Proposed Rock Cavern at +200mPD, dB(A)												93			

NSR ID					Noise Criteria, dB(A)										
	Description	ASR	Affected by IF?	ANL-5	Background Noise Measurement ⁽¹⁾	Noise Criteria	Noise Sources	Maximum Allowable SWL, dB(A)	Approxmated Dist., m	Distance Attenuation, dB(A)	Tonality Correction, dB(A)	Façade Correction, dB(A)	B SPL, dB(A) dB(A) Night		
					Night			Night							Compliance? (Y/N)
R2-2-R013	Private Housing,	P	Not Affected	50	40	40	Rock Cavern at +200mPD	86	195	-54	3	3	38	47	Y
	ARQ Site R2-2	В	Not Affected	50	49	49	Proposed Pumping Station ⁽²⁾	94	180	-53 3	3	3	47	47	
Maximum Allowable SWL (Night-time) of Ventilation Shaft of Proposed Rock Cavern at +200mPD, dB(A)												86			

Note:

(1) Background Noise Measurement is adpoted from the approved EIA report for Development of Anderson Road Quarry (EIA-222/2014).

(2) Maximum Allowable SWL of the Proposed Pumping Station is adpoted from the approved EIA report for Development of Anderson Road Quarry (EIA-222/2014).

(3) If the noise exhibits any tonality, intermittency or impulsiveness characteristics during the operation of the plant, the noise design limit (Maximum Allowable SWL) should be reduced to absorb these corrections in accordance with the recommendation given in IND-TM. (4) Maximum Allowable SWL (Day and Evening / Night) of Ventilation Shaft of Proposed Rock Cavern at +200mPD might subject to change if the exact location of the Ventilation Shaft is confirmed.



(Note: Building block layouts are assumed for assessment purpose)

- La X m → Distance (X in meter)