

BASS POINT QUARRY EPL-2193 LICENCE CONDITIONS - Blast Monitor Results



Date	Time	Blast Location	Blast #	Monitor Location	Air Blast dBL	Ground Vibration mm/sec	Comments	EPA contact
19/01/2021	11:00	West Pit RL 18 West	671	Rangoon Ave Shellcove	102.8 dBL	0.86 mm/s		
				Killalea State Park	101.9 dBL	0.371 mm/s		
27/01/2021	11:00	West Pit RL 18 West	672	Rangoon Ave Shellcove	105.5 dBL	2.70 mm/s		
				Killalea State Park	102.8 dBL	1.15 mm/s		
3/02/2021	11:01	West Pit RL 18 West	673	Rangoon Ave Shellcove	106.5 dBL	3.511 mm/s		
				Killalea State Park	103.5 dBL	1.393 mm/s		
12/02/2021	10:58	West Pit RL 18 South	674	Rangoon Ave Shellcove	107.5 dBL	2.643 mm/s		
				Killalea State Park	107.0 dBL	0.861 mm/s		
19/02/2021	11:33	East Pit RL 45 South	675	Rangoon Ave Shellcove	107.0 dBL	0.885 mm/s		
				Killalea State Park	111.8 dBL	0.319 mm/s		
26/02/2021	11:11	West Pit RL 18 West	676	Rangoon Ave Shellcove	103.5 dBL	2.153 mm/s		
				Killalea State Park	101.9 dBL	0.924 mm/s		
5/03/2021	11:05	West Pit RL 18 West	677	Rangoon Ave Shellcove	107.5 dBL	2.836 mm/s		
				Killalea State Park	104.2 dBL	0.955 mm/s		
12/03/2021	11:03	West Pit RL 18 South	678	Rangoon Ave Shellcove	107.5 dBL	3.032 mm/s		
				Killalea State Park	109.9 dBL	0.776 mm/s		
19/03/2021	11:00	West Pit RL 18 West	679	Rangoon Ave Shellcove	107.5 dBL	1.061 mm/s		
				Killalea State Park	101.9 dBL	0.374 mm/s		
30/03/2021	12:06	West Pit RL 18 West	680	Rangoon Ave Shellcove	106.5 dBL	3.147 mm/s		
				Killalea State Park	100.0 dBL	1.190 mm/s		
1/04/2021	13:07	East Pit RL 45 South	682	Rangoon Ave Shellcove	106.5 dBL	0.558 mm/s		
				Killalea State Park	108.8 dBL	0.332 mm/s		
9/04/2021	11:05	West Pit RL 18 West	681	Rangoon Ave Shellcove	101.0 dBL	4.225 mm/s		
				Killalea State Park	102.8 dBL	1.826 mm/s		
23/04/2021	11:02	West Pit RL 18 West	683	Rangoon Ave Shellcove	104.2 dBL	2.675 mm/s		
				Killalea State Park	104.0 dBL	1.26 mm/s		
30/04/2021	11:35	West Pit RL 18 South	684	Rangoon Ave Shellcove	110.2 dBL	1.136 mm/s		
				Killalea State Park	110.9 dBL	0.529 mm/s		
7/05/2021	12:58	West Pit RL 18 South	685	Rangoon Ave Shellcove	113.8 dBL	1.644 mm/s		
				Killalea State Park	106.5 dBL	1.027 mm/s		
17/05/2021	10:59	West Pit RL 18 West	686	Rangoon Ave Shellcove	105.5 dBL	2.460 mm/s		
				Killalea State Park	101.9 dBL	1.132 mm/s		
24/05/2021	10:59	West Pit RL 18 East	687	Rangoon Ave Shellcove	109.5 dBL	1.487 mm/s		
				Killalea State Park	107.5 dBL	0.580 mm/s		
31/05/2021	9:03	West Pit RL45 North	688	Rangoon Ave Shellcove	107.5 dBL	1.378 mm/s		
				Killalea State Park	97.50 dBL	0.500 mm/s		
4/06/2021	13:00	West Pit RL 18 East	689	Rangoon Ave Shellcove	106.0 dBL	0.572 mm/s		
				Killalea State Park	108.8 dBL	1.957 mm/s		
11/06/2021	11:00	West Pit RL 18 West	690	Rangoon Ave Shellcove	103.5 dBL	2.721 mm/s		
				Killalea State Park	102.8 dBL	1.417 mm/s		
21/06/2021	11:02	West Pit RL 18 West	691	Rangoon Ave Shellcove	102.8 dBL	2.083 mm/s		
				Killalea State Park	101.0 dBL	0.841 mm/s		
25/06/2021	11:03	West Pit RL 18 North	692	Rangoon Ave Shellcove	101.0 dBL	1.565 mm/s		
				Killalea State Park	113.8 dBL	1.173 mm/s	Wind affected trigger	
7/07/2021	11:00	West Pit RL 18 South	693	Rangoon Ave Shellcove	108.0 dBL	1.432 mm/s		
				Killalea State Park	< 88 dBL	0.390 mm/s	Reading less than trigger point	
14/07/2021	11:04	West Pit RL 18 South	694	Rangoon Ave Shellcove	101.0 dBL	2.976 mm/s		
				Killalea State Park	104.8 dBL	1.760 mm/s		

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Date	Time	Blast Location	Blast #	Monitor Location	Air Blast dBL	Ground Vibration mm/sec	Comments	EPA contact
28/07/2021	11:00	West Pit RL 18 South	695	Rangoon Ave Shellcove	102.8 dBL	1.891 mm/s		
				Killalea State Park	101.0 dBL	1.192 mm/s		
4/08/2021	11:03	West Pit RL 45 North	696	Rangoon Ave Shellcove	<115.0 dBL	0.962 mm/s	Wind affected trigger after event	
				Killalea State Park	101.9 dBL	0.623 mm/s		
11/08/2021	11:22	West Pit RL 18 South	697	Rangoon Ave Shellcove	<115.0 dBL	1.331 mm/s	Wind affected trigger after event	
				Killalea State Park	103.5 dBL	1.227 mm/s		
2/09/2021	11:02	West Pit RL 18 North	698	Rangoon Ave Shellcove	<114.2 dBL	2.715 mm/s	Wind affected trigger after event	
				Killalea State Park	<113.3 dBL	2.055 mm/s		
8/09/2021	11:01	West Pit RL 18 North	699	Rangoon Ave Shellcove	101.9 dBL	1.921 mm/s		
				Killalea State Park	102.8 dBL	0.722 mm/s		
15/09/2021	10:56	West Pit RL 45 North	700	Rangoon Ave Shellcove	111.9 dBL	1.466 mm/s		
				Killalea State Park	95.92 dBL	0.744 mm/s		
22/09/2021	11:07	West Pit RL 18 North	701	Rangoon Ave Shellcove	108.9 dBL	1.815 mm/s		
				Killalea State Park	107.5 dBL	0.703 mm/s		

L3 Blasting

L3.1 The ground vibration peak particle velocity from blasting operations carried out at the premises must not exceed:

- a) 5 mm/s for more than 5% of the total number of blasts carried out at the premises during each reporting period; and
- b) 10 mm/s at any time.

At "Monitoring Point A - Blast Monitor" or "Monitoring Point B - Blast Monitor" as labelled on the aerial photo titled 'Bass Point Quarry EPA Monitoring Locations' dated 17 April 2019.

L3.2 The airblast overpressure level from blasting operations at the premises must not exceed:

- a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; and
- b) 120 dB (Lin Peak) at any time.

At "Monitoring Point A - Blast Monitor" or "Monitoring Point B - Blast Monitor" as labelled on the aerial photo titled 'Bass Point Quarry EPA Monitoring Locations' dated 17 April 2019.

BLASTING

Blasting Criteria

- 7. The Proponent **must** ensure that blasting on the site does not cause exceedances of the criteria in Table 3.

Table 3: Blasting criteria

Location	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance
	120	10	0%
Any residence on privately owned land	115	5	5% of the total number of blasts over a period of 12 months

However, these criteria do not apply if the Proponent has a written agreement with the relevant residential owner or infrastructure provider/owner, and the Proponent has advised the Department in writing of the terms of this agreement.