



**Pollution Monitoring Data - Holcim Lynwood Quarry (EPL Number 12939)**

Facility Address	278 Stoney Creek Road, Marulan, NSW, 2579
Link to EPL on Public Register	<a href="https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=12939&amp;id=12939&amp;option=licence&amp;searchrange=licence&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued">https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=12939&amp;id=12939&amp;option=licence&amp;searchrange=licence&amp;range=POEO%20licence&amp;prp=no&amp;status=Issued</a>
Date Dataset Updated	Wednesday, December 8, 2021
Date Dataset Published	Thursday, December 9, 2021

**Air Quality Monitoring - Hi Volume Sampler Results**

Note(s) DNT = Did Not Trigger

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description						
HVAS1	24hr average (every 6 days)	EPL	-	50	µg/m3	Particulate Matter < 10 µm (PM10)						
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Result (Mean)	10.0	7.3	6.2	6.2	3.0	3.2	3.5	5.2	15.5			
Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass			
Comments regarding Hi Volume monitoring outcomes at HVAS 1												
Comment 1:												
Comment 2:												
Comment 3:												

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description						
HVAS2	24hr average (every 6 days)	EPL	-	50	µg/m3	Particulate Matter < 10 µm (PM10)						
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Result (Mean)	10.0	8.8	7.1	15.0	5.2	6.2	5.4	8.5	14.1			
Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass			
Comments regarding Hi Volume monitoring outcomes at HVAS 1												
Comment 1:												
Comment 2:												
Comment 3:												

0.5

**Air Quality Monitoring - Deposition Results**

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Jan Date	Feb Date	Mar Date	Apr Date	May Date	Jun Date	Jul Date	Aug Date	Sep Date	Oct Date	Nov Date	Dec Date
DD 5	Monthly	EPL Section P1	-	4	mg/m2/month	Insoluble Solids	Result	0.7	n/a	2.7	0.6	0.9	0.6	0.6	0.4	0.3	0.7	
							Pass / Fail	Pass	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
DD 8	Monthly	EPL Section P1	-	4	mg/m2/month	Insoluble Solids	Result	1.7	1.7	0.4	0.3	0.2	0.2	0.2	0.3	0.5		
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
DD11	Monthly	EPL Section P1	-	4	mg/m2/month	Insoluble Solids	Result	0.6	0.8	0.4	0.6	0.4	1	1	0.7	3.4	1.5	
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
DD12	Monthly	EPL Section P1	-	4	mg/m2/month	Insoluble Solids	Result	0.6	1.1	0.7	0.4	2.0	0.7	0.3	0.3	0.7		
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
DD13	Monthly	EPL Section P1	-	4	mg/m2/month	Insoluble Solids	Result	2.1	0.9	0.8	1.2	0.2	0.3	0.3	0.3	0.6		
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Comments regarding deposition monitoring outcomes

Comment 1:	26/2 - unable to reach location due to flooding
Comment 2:	
Comment 3:	

## Noise Monitoring Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Q1 Sample Date	Q2 Sample Date	Q3 Sample Date	Q4 Sample Date		
NAL 1 arrick Rd, Marul	Quarterly	EPL Section L3	-	35	dB	LAeq (15 min) Day	Result	33	35	25	30	
						Pass / Fail	Pass	Pass	Pass	Pass		
			-	35	dB	LAeq (15 min) Evening	Result		30		30	35
						Pass / Fail		Pass	Pass	Pass		
			-	35	dB	LAeq (15 min) Night	Result	30	30		30	
						Pass / Fail	Pass	Pass	Pass			
			-	45	dB	LA1 (1 min) Night	Result	40	40		45	
						Pass / Fail	Pass	Pass	Pass			

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Q1 Sample Date	Q2 Sample Date	Q3 Sample Date	Q4 Sample Date		
NAL 2 Maclura Dr, Maru	Quarterly	EPL Section L3	-	35	dB	LAeq (15 min) Day	Result	30	35	30	30	
						Pass / Fail	Pass	Pass	Pass	Pass		
			-	37	dB	LAeq (15 min) Evening	Result		37		30	37
						Pass / Fail		Pass	Pass	Pass		
			-	36	dB	LAeq (15 min) Night	Result	30	35		36	36
						Pass / Fail	Pass	Pass	Pass	Pass		
			-	46	dB	LA1 (1 min) Night	Result	40	46		46	46
						Pass / Fail	Pass	Pass	Pass	Pass		

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Q1 Sample Date	Q2 Sample Date	Q3 Sample Date	Q4 Sample Date		
NAL 3 16038 Hume Hig	Quarterly	EPL Section L3	-	35	dB	LAeq (15 min) Day	Result	32	35	30	35	
						Pass / Fail	Pass	Pass	Pass	Pass		
			-	35	dB	LAeq (15 min) Evening	Result	32	35		35	35
						Pass / Fail		Pass	Pass	Pass		
			-	35	dB	LAeq (15 min) Night	Result	35	35		35	35
						Pass / Fail	Pass	Pass	Pass	Pass		
			-	47	dB	LA1 (1 min) Night	Result	41	45		47	47
						Pass / Fail	Pass	Pass	Pass	Pass		

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Q1 Sample Date	Q2 Sample Date	Q3 Sample Date	Q4 Sample Date		
NAL 4 and Suffolk Roa	Quarterly	EPL Section L3	-	37	dB	LAeq (15 min) Day	Result	30	37	30	37	
						Pass / Fail	Pass	Pass	Pass	Pass		
			-	37	dB	LAeq (15 min) Evening	Result		37		30	30
						Pass / Fail		Pass	Pass	Pass		
			-	36	dB	LAeq (15 min) Night	Result	30	31		36	30
						Pass / Fail	Pass	Pass	Pass	Pass		
			-	47	dB	LA1 (1 min) Night	Result		41		47	47
						Pass / Fail		Pass	Pass	Pass		

Comments regarding noise monitoring outcomes

Comment 1:	The LAeq (Evening and Night) frequency assessment is annual.
Comment 2:	
Comment 3:	

## Blast Monitoring Results

Note(s)	DNT <(X)dB = Did Not Trigger with monitoring equipment set at a trigger point of "X"dB
	DNT <(X)mm/s = Did Not Trigger with monitoring equipment set at a trigger point of "X"mm/s





Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	21/09/2021	28/09/2021	30/09/2021	07/10/2021	12/10/2021	14/10/2021	19/10/2021	21/10/2021	26/10/2021	28/10/2021	29/10/2021	02/11/2021
B5 Resident	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Over Pressure	DNT <100db	DNT <100db	84.9db	DNT <100db	91.8db	DNT <100db	DNT <100db	DNT <100db	86.9db	DNT <100db	DNT <100db	DNT <100db
				-	5	mm/s	Ground Vibration	DNT <0.5mm/s	DNT <0.5mm/s	0.52mm/s	DNT <0.5mm/s	0.66mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.71mm/s	DNT <0.5mm/s	DNT <0.5mm/s
B6 Rail	Per Blast	EPL	Granite	-	5	mm/s	Ground Vibration	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.84mm/s	0.62mm/s	0.84mm/s	DNT <0.5mm/s	0.98mm/s	0.85mm/s	DNT <0.5mm/s	DNT <0.5mm/s
				-	5	mm/s	Ground Vibration	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.84mm/s	0.62mm/s	0.84mm/s	DNT <0.5mm/s	0.98mm/s	0.85mm/s	DNT <0.5mm/s	DNT <0.5mm/s

**Blast Monitoring Results at Granite Pit - August 2021**

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	21/09/2021	28/09/2021	30/09/2021	07/10/2021	12/10/2021	14/10/2021	19/10/2021	21/10/2021	26/10/2021	28/10/2021	29/10/2021	02/11/2021
B4 Resident	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Over Pressure	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db
				-	5	mm/s	Ground Vibration	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s
B5 Resident	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Over Pressure	DNT <100db	DNT <100db	86.9db	DNT <100db	DNT <100db	100db	DNT <100db	DNT <100db	DNT <100db	94.9db	DNT <100db	DNT <100db
				-	5	mm/s	Ground Vibration	DNT <0.5mm/s	DNT <0.5mm/s	0.71mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.62mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.91mm/s	DNT <0.5mm/s	DNT <0.5mm/s
B6 Rail	Per Blast	EPL	Granite	-	5	mm/s	Ground Vibration	0.84mm/s	DNT <0.5mm/s	0.98mm/s	0.85mm/s	0.86mm/s	0.76mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	1.07mm/s	1.46mm/s	0.90 mm/s
				-	5	mm/s	Ground Vibration	0.84mm/s	DNT <0.5mm/s	0.98mm/s	0.85mm/s	0.86mm/s	0.76mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	1.46mm/s	1.46mm/s	0.90mm/s

**Blast Monitoring Results**

Note(s)	DNT <(X)dB = Did Not Trigger with monitoring equipment set at a trigger point of "X"dB
	DNT <(X)mm/s = Did Not Trigger with monitoring equipment set at a trigger point of "X"mm/s

**Blast Monitoring Results at Granite Pit - September 2021**

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	12/10/2021	14/10/2021	19/10/2021	21/10/2021	26/10/2021	28/10/2021	29/10/2021	02/11/2021	09/11/2021	16/11/2021	18/11/2021	23/11/2021	25/11/2021
B4 Resident	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Over Pressure	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db
				-	5	mm/s	Ground Vibration	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s
B5 Resident	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Over Pressure	DNT <100db	100db	DNT <100db	DNT <100db	DNT <100db	94.9db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	86.9 DBL	DNT <100db
				-	5	mm/s	Ground Vibration	DNT <0.5mm/s	0.62mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.91mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s
B6 Rail	Per Blast	EPL	Granite	-	5	mm/s	Ground Vibration	0.86mm/s	0.76mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	1.07mm/s	1.46mm/s	0.90 mm/s	0.82mm/s	1.30mm/s	DNT <0.5mm/s	DNT <0.5mm/s	
				-	5	mm/s	Ground Vibration	0.86mm/s	0.76mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	1.46mm/s	1.46mm/s	0.90mm/s	0.82mm/s	1.30mm/s	DNT <0.5mm/s	DNT <0.5mm/s	

**Blast Monitoring Results at Granite Pit - October 2021**

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description	21/10/2021	26/10/2021	28/10/2021	29/10/2021	02/11/2021	09/11/2021	16/11/2021	18/11/2021	23/11/2021	25/11/2021
B4 Resident	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Over Pressure	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db	DNT <100db
				-	5	mm/s	Ground Vibration	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s
B5 Resident	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Over Pressure	DNT <100db	DNT <100db	94.9db	DNT <100db	DNT <100db	DNT <100db	86.9 DBL	DNT <100db	84.4 DB	DNT <100db
				-	5	mm/s	Ground Vibration	DNT <0.5mm/s	DNT <0.5mm/s	0.91mm/s	DNT <0.5mm/s	DNT <0.5mm/s	DNT <0.5mm/s	0.51mm/s	DNT <0.5mm/s	0.52mm/s	DNT <0.5mm/s
B6 Rail	Per Blast	EPL	Granite	-	5	mm/s	Ground Vibration	DNT <0.5mm/s	DNT <0.5mm/s	1.07mm/s	1.46mm/s	0.90 mm/s	0.82mm/s	1.30mm/s	0.92mm/s	0.81mm/s	0.77mm/s
				-	5	mm/s	Ground Vibration	DNT <0.5mm/s	DNT <0.5mm/s	1.46mm/s	1.46mm/s	0.90mm/s	0.82mm/s	1.30mm/s	0.92mm/s	0.81mm/s	0.77mm/s

**Blast Monitoring Results at Granite Pit - November 2021**

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description											
B4 Resident	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Over Pressure											
				-	5	mm/s	Ground Vibration											
B5 Resident	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Over Pressure											
				-	5	mm/s	Ground Vibration											
B6 Rail	Per Blast	EPL	Granite	-	5	mm/s	Ground Vibration											
				-	5	mm/s	Ground Vibration											

**Blast Monitoring Results**

Note(s)  
 DNT <(X)dB = Did Not Trigger with monitoring equipment set at a trigger point of "X"dB  
 DNT <(X)mm/s = Did Not Trigger with monitoring equipment set at a trigger point of "X"mm/s

**Blast Monitoring Results at Granite Pit - December 2021**

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description											
B4 Resident	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Over Pressure											
				-	5	mm/s	Ground Vibration											
B5 Resident	Per Blast	EPL	Granite	-	115	dB (Lin Peak)	Over Pressure											
				-	5	mm/s	Ground Vibration											
B6 Rail	Per Blast	EPL	Granite	-	5	mm/s	Ground Vibration											
				-	5	mm/s	Ground Vibration											

**Comments regarding blast monitoring outcomes**

Comment 1:	
Comment 2:	
Comment 3:	