Pollution Monitoring Data - Holcim Jandra Quarry (EPL Number 2796)



Facility Address	Pacific Highway, Possum Brush, NSW 2430
Link to EPL on Public Register	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=2796&id=2796&option=licence&searchrange=licence⦥=POEO%20licence&prp=no&status=Issued
Date Dataset Updated	Thursday, February 20, 2020

Air Quality Monitoring - Hi Volume Sampler Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit				Description			
EPA Point 11 Receiver Location R1)	24 Hours (Every 6 days)	EPL 2796 - Clause M2.2 & Jandra Quarry Air Quality Management Plan	-	50	µg/m3			Particulate	e Matter < 10 μm	'PM10)		
Month	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Result (Mean)	23.7	19.0	21.2	17.1	18.7	9.0	10.7	18.7	15.1	9.2	58.9	27.0
Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Pass
				Com	ments regarding H	i Volume Sample M	onitoring Outcome	S				
Comment 1:	September 2019	: Result obtained	for 17/9/19 was re	corded over a 17.	8hr duration.							
Comment 2:	November 2019	- Heavy smoke ha	ze in the area co	ntributing to a high	result							
Comment 3:												

Air Quality Monitoring - Deposition Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Descr	iption	January 15/01/2019	February 12/02/2019	March 13/03/2019	April 10/04/2019	May 09/05/2019	June 06/06/2019
EPA 18 Jandra D1 Northern Boundary	Monthly	EPL Section P1	-	4	mg/m2/month	Insoluble Solids	Result Pass / Fail	1.3 Pass	1.2 Pass	4.4 Fail	0.7 Pass	0.2 Pass	0.6 Pass
EPA 19 Jandra D2 Southern Boundary	Monthly	EPL Section P1	-	4	mg/m2/month	Insoluble Solids	Result Pass / Fail	2 Pass	1.8 Pass	4 Pass	1.9 Pass	0.9 Pass	0.4 Pass
EPA 20 Jandra D3 Eastern Boundary	Monthly	EPL Section P1	-	4	mg/m2/month	Insoluble Solids	Result Pass / Fail	1.8 Pass	1.2 Pass	4.6 Fail	1 Pass	0.7 Pass	0.4 Pass
EPA 21 Jandra D4 Western Boundary	Monthly	EPL Section P1	-	4	mg/m2/month	Insoluble Solids	Result Pass / Fail	0.6 Pass	0.7 Pass	3.3 Pass	1.1 Pass	0.9 Pass	0.4 Pass

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Descr	iption	July 08/07/2019	August 05/08/2019	September 05/09/2019	October 03/10/2019	November 04/11/2019	December 08/01/2020
EPA 18 Jandra D1	Monthly	EPL	-	4	mg/m2/month	Insoluble	Result	0.2	0.2	0.2	1	1.6	0.7
Northern Boundary	monuny	Section P1				Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
EPA 19 Jandra D2	Monthly	EPL			mg/m2/month	Insoluble	Result	0.2	0.8	1	1	1.3	1.1
Southern Boundary	wontiny	Section P1	-	4	mg/mz/montin	Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
EPA 20 Jandra D3	Monthly	EPL		4	mg/m2/month	Insoluble	Result	0.2	0.7	1	1.3	1.8	1
Eastern Boundary	wontiny	Section P1	-	4	mg/mz/montin	Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
EPA 21 Jandra D4	Monthly	EPL		4	mg/m2/month	Insoluble	Result	0.3	0.6	0.9	0.8	1.4	0.7
Western Boundary	wortuny	Section P1	-	4	mg/mz/month	Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass

	Comments regarding deposition monitoring outcomes
Comment 1:	
Comment 2:	
Comment 3:	

Noise Monitoring Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Descr	iption	Q1 12/3/2019	Q2 29/5/2019	Q3 19/9/2019	Q4 27/11/2019	
		EPL		36	dB	LAeq (15 min)	Result	<35	<35	<35	<35	
EPA Point 13 Monitoring	Quartarly		Section L4 .2	-	50	uв	Shoulder / Day	Pass / Fail	Pass	Pass	Pass	Pass
Location R2	Quarterly Section L4 .2		20		LAeq (15 min)	Result	<35	<35	<35	<35		
			-	36	dB	Day	Pass / Fail	Pass	Pass	Pass	Pass	

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Descr	iption	Q1	Q2	Q3	Q4
Location	Trequency	Source	Lower Linit	Opper Linit	Onic	Desci	iption	12/3/2019	29/5/2019	19/9/2019	27/11/2019
		EPL		36	dB	LAeq (15 min)	Result	<30	<35	<35	<35
EPA Point 14 Monitoring	Quarterly	Section L4 .2	-	30	uв	Shoulder / Day	Pass / Fail	Pass	Pass	Pass	Pass
Location R4	Quarterry	Section L4.2		36	dB	LAeq (15 min)	Result	<30	<35	<35	<35
			-	30	uв	Day	Pass / Fail	Pass	Pass	Pass	Pass

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Descr	iption	Q1 12/3/2019	Q2 29/5/2019	Q3 19/9/2019	Q4 27/11/2019	
		EPL		40	-ID	LAeg (15 min)	Result	<30	<35	<35	<35	
EPA Point 15 Monitoring	Quartarly	Quarterly Section L4 .2		-	40	dB	Shoulder / Day	Pass / Fail	Pass	Pass	Pass	Pass
Location R5				40	dB	LAeq (15 min)	Result	<30	<35	<35	<35	
			-	40		Day	Pass / Fail	Pass	Pass	Pass	Pass	

Location	Frequency	Source	Lower Limit	UnnorLimit	Unit	Descr	intion	Q1	Q2	Q3	Q4
Location	Frequency	Source	Lower Linni	Upper Limit	Unit	Descr	iption	12/3/2019	29/5/2019	19/9/2019	27/11/2019
		EPL		36	dB	LAeq (15 min)	Result	<35	<35	<35	<35
EPA Point 16 Monitoring	Quarterly	Section 1.4.2	-		ub	Shoulder / Day	Pass / Fail	Pass	Pass	Pass	Pass
Location R6	Quarterry	y Section L4 .2	-	36	dB	LAeg (15 min)	Result	<35	<35	<35	<35
						Day	Pass / Fail	Pass	Pass	Pass	Pass

Noise Monitoring Results (Cont ...)

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description		Q1 12/3/2019	Q2 29/5/2019	Q3 19/9/2019	Q4 27/11/2019
EPA Point 17	Quarterly	EPL Section L4.2		35	dB	LAeq (15 min)	Result	<35	<35	<35	<35
			-			Shoulder / Day	Pass / Fail	Pass	Pass	Pass	Pass
Monitoring Location R7		Section L4.2	-	35	dB	LAeg (15 min)	Result	<35	<35	<35	<35
						Day	Pass / Fail	Pass	Pass	Pass	Pass

		Comments regarding noise monitoring outcomes
	Comment 1:	EPL Section L4 sets out noise limits but no testing frequency.
	Comment 2:	The EPL (section L4.2) states that we must ensure limits are met so a quarterly testing frequency has been applied in line with other management plans.
	Comment 3:	
1		

Surface Water Monitoring Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Sample Date	31/1/2019	28/2/2019	31/3/2019	30/4/2019	31/5/2019	30/6/2019
	Each Event	EPL Section L2.4	6.5	8.5	рH	nH	Result	Dry	Dry	Dry	Dry	Dry	Dry
	Each Event	Section M2.3	0.5	0.0	рн	рН	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
			_	50	mg/L	Total Suspended Solids (TSS)	Result	Dry	Dry	Dry	Dry	Dry	Dry
During	2 Times Daily	EPL Section L2.4	_			Daily Test #1	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
Discharge Point from Final				50	mg/L	Total Suspended Solids (TSS)	Result	Dry	Dry	Dry	Dry	Dry	Dry
Sediment Dam			-	50		Daily Test #2	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
				50	NTU	Turbidity	Result	Dry	Dry	Dry	Dry	Dry	Dry
	2 Times Daily During		-	50	NIO	Daily Test #1	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
	Discharge	Section M2.3	Section L2.4 Section M2.3	50	NTU	Turbidity	Result	Dry	Dry	Dry	Dry	Dry	Dry
	Discharge		-	50	NIO	Daily Test #2	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Sample Date	31/7/2019	31/8/2019	30/9/2019	31/10/2019	30/11/2019	31/12/2019
	Each Event	EPL Section L2.4	6.5	8.5			Result	Dry	Dry	Dry	Dry	Dry	Dry
	Each Event	Section M2.3	0.5	0.0	рН	рН	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
			_	50	ma/l	Total Suspended Solids (TSS)	Result	Dry	Dry	Dry	Dry	Dry	Dry
EPA Point 1	2 Times Daily	During Section L2.4	-	50	mg/L	Daily Test #1	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
Discharge Point from Final	Discharge			50	mg/L	Total Suspended Solids (TSS)	Result	Dry	Dry	Dry	Dry	Dry	Dry
Sediment Dam			-			Daily Test #2	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
			_	50	NTU	Turbidity	Result	Dry	Dry	Dry	Dry	Dry	Dry
	2 Times Daily During	ring Section L2.4	-	50	NIU	Daily Test #1	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
	Discharge			50	NTU	Turbidity	Result	Dry	Dry	Dry	Dry	Dry	Dry
				50		Daily Test #2	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass

	Comments: Add any comments regarding the surface water monitoring outcomes in the fields below						
Comment 1:	Where the quarry did not dicharge any water for the calendar month a result of "Dry" has been recorded.						
Comment 2:							
Comment 3:							

Weather Monitoring Results

Reference	Frequency	Source	Unit	Total Annual Rainfall (mm)				
EPL Clause M4	Daily	Site Guage	mm					
Comments regarding weather monitoring								
Comment 1: Clause M4 of the EPL sets out the weather monitoring parameters for the site. This data was collected throughout 2019 but requires specilist contractors to download the data in a manner that can be reported here. At the time of posting this monitoring summary this data was not able to be downloaded due to availability of the specilist contractor. Once the data has been downloaded and is available for analysis the weather monitoring outcomes will be posted in a revision of this summary.								

Blast Monitoring Results

Blast Monitoring - WOY 2019

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Descr	iption	11/01/2019	21/01/2019	06/03/2019	06/03/2019	10/04/2019	06/05/2019									
	Per Blast	Section L5		115	dD (Lin Deels)	n Peak) Over Pressure	Result	DNT	109.9	80.8	80.8	DNT	108.3									
EPA Point 2			-	115	dB (Lin Peak)		Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass									
Receiver Location R4	Fei blast						Section L5 Section M7					Section L5		5	mm/s	Ground	Result	DNT	0.8	0.7	0.7	DNT
Location R4			-	5	1111//5	Vibration	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass									

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Descr	iption	25/07/2019	08/08/2019	11/09/2019	01/11/2019							
	Per Blast	50		115	dB (Lin Peak)	Over Pressure	Result	99.9	103.5	106	DNT							
EPA Point 2		EPL Clause P1.4	-				Pass / Fail	Pass	Pass	Pass	Pass							
Receiver Location R4		Section L5 Section M7								1	5	mm/s	Ground	Result	4.3	1.0	1.1	DNT
Eboution Ter			-	5	1111//5	mm/s Vibration	Pass / Fail	Pass	Pass	Pass	Pass							

Comments regarding blast monitoring outcomes							
Comment 1:	DNT = "Did Not Trigger" with overpressure monitoring equipment set at a trigger point of 90 dBa or ground vibration monitoring equipment set at a trigger point of 0.1 mm/s						
Comment 2:							
Comment 3:							

Annual Blast Monitoring Results

Annual Overpressure Monitoring Requirements - Maximum Overpressure									
Overpressure High Range Requirement:	Source	Criteria	Outcome						
		Blast Count (YTD)	10						
The airblast overpressure level from blasting operations in or on the premises must not exceed120 dB (Lin Peak) at any time.	EPL Clause L3.1	Blasts with overpressure >120dB during the reporting period	0						
		Annual Overpressure (Pass / Fail)	Pass						

Annual Overpressure Monitoring Requirements - Overpressure High Range

Overpressure High Range Requirement:	Source	Criteria	Outcome
		Blast Count (YTD)	10
The airblast overpressure level from blasting operations in or on the premises must not exceed 115 dB (Lin Peak) for more than 5% of the total number of blasts during each	EPL Clause L3.1	Blasts with overpressure >115dB during the reporting period	0
reporting period.	EPL Clause L3. I	% of blasts with overpressure >115dB during the reporting period	0%
		Annual Overpressure (Pass / Fail)	Pass

Annual Ground Vibration Monitoring Requirements - Maximum Ground Vibration

Overpressure High Range Requirement:	Source	Criteria	Outcome
		Blast Count (YTD)	10
The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed 10 mm/s at any time.	EPL Clause L3.2	Blasts with ground vibration >10 mm/s during the reporting period	0
p		Annual Ground Vibration (Pass / Fail)	Pass

Annual Ground Vibration Monitoring Requirements - Ground Vibration High Range

Overpressure High Range Requirement:	Source	Criteria	Outcome
		Blast Count (YTD)	10
The ground vibration peak particle velocity from blasting operations carried out in or on the		Blasts with ground vibration >5mm/s during the reporting period	0
premises must not exceed 5mm/s for more than 5% of the total number of blasts carried out on the premises during each reporting period.	EPL Clause L3.2	% of blasts with ground vibration >5mm/s during the reporting period	0%
		Annual Ground Vibration (Pass / Fail)	Pass

Comments regarding	Comments regarding annual blast monitoring outcomes							
Comment 1:	Quarry has been inactive throughout 2020 (YTD) and as such no monitoring has been undertaken against EPL 1371							
Comment 2:								
Comment 3:								
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