



Pollution Monitoring Data - Holcim Albion Park Quarry (EPL Number 122)

Facility Address	Woollybutt Drive, Albion Park Rail NSW 2527
Link to EPL on Public Register	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=122&id=122&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=issued
Date Dataset Updated	Tuesday, June 30, 2020
Date Dataset Published	Friday, July 3, 2020
Licence Reporting Period	1st May 2019 to 30th April 2020

Air Quality Monitoring - Deposition Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Month Sample Date	May 03/05/2019	June 04/06/2019	July 04/07/2019	August 05/07/2019	September 06/09/2019	October 08/10/2019	November 06/11/2019	December 06/12/2019	January	February	March	April 06/04/2020		
DDM 3 North-Western boundary	Monthly	EPL P1.1	-	4	g/m2/month	Insoluble Solids (Raw Data)	Result	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	1.4	5.7	0.9	Comment 4	
			Pass / Fail	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Pass	Fail	Pass	n/a		
			-	-	g/m2/month	Ash	Result	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	0.9	5.0	0.7	Comment 4
			Pass / Fail	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Pass	Pass	Pass	n/a	
DDM 4 Croome Road on boundary of Lot 1 DP 74108	Monthly	EPL P1.1	-	4	g/m2/month	Insoluble Solids (Raw Data)	Result	0.7	1.0	0.2	0.2	0.4	0.5	1.0	1.9	Comment 2	6.6	1.3	1.5		
			Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	n/a	Fail	Pass	Pass			
			-	-	g/m2/month	Ash	Result	0.4	0.6	0.1	0.2	0.3	0.3	0.9	1.3	Comment 2	5.5	0.9	0.1		
			Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	n/a	Pass	Pass	Pass		
DDM 5 Kywana homestead	Monthly	EPL P1.1	-	4	g/m2/month	Insoluble Solids (Raw Data)	Result	2.3	2.1	1.0	0.7	2.3	2.2	2.6	1.9	2.3	4.7	1.9	1.9		
			Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Pass		
			-	-	g/m2/month	Ash	Result	1.9	1.6	0.9	0.6	2.6	1.9	2.3	1.6	1.9	4.1	1.5	0.2		
			Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass		
DDM 6 West of office	Monthly	EPL P1.1	-	4	g/m2/month	Insoluble Solids (Raw Data)	Result	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 2	4.6	2.1	2.8		
			Pass / Fail	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Fail	Pass	Pass			
			-	-	g/m2/month	Ash	Result	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 1	Comment 2	4.1	1.7	0.3		
			Pass / Fail	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Pass	Pass	Pass		

Comments regarding deposition monitoring outcomes

Comment 1:	Bottles identified as EPA Point 3 and EPA Point 6 were damaged by construction activity abutting the site and were discontinued pending completion of construction activities. EPA informed. Once construction activities have ceased Holcim will engage with EPA to determine suitable locations for the reinstated deposition monitoring points.
Comment 2:	Jan 2020 - Bottles identified as EPA Point 3 and EPA Point 6 were removed due to Road works. Approved.
Comment 3:	Feb 2020 - Gross results for insoluble solids exceeded industry standards of 4g/m2/month so further analysis to determine the quarry contribution to this result was undertaken. Once corrected to remove ash, results indicate that the quarry was within the industry standard.
Comment 4:	April 2020 - Bottle identified as EPA Point 3 was vandalised (stolen stand, broken glassware)

Surface Water Monitoring Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Event Date	Event Date	Event Date	Event Date	Event Date	Event Date	Event Date	Event Date	Event Date	Event Date	Event Date				
Licensed Discharge Point 1	Each Discharge Event	EPL Section L2	6.5	8.5	pH	pH	Result	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY			
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
			-	50	mg/L	Suspended Solids	Result	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
			-	NV	V = Visable or NV = None Visable	Total Oil & Grease	Result	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

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

Rainfall Monitoring Results

Location	Frequency	Source	Unit	Total Rainfall YTD	
EPA Point 4	Daily	Gauge	mm	787.1	

Month	May 2019	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019	January 2020	February 2020	March 2020	April 2020
Total Rainfall (mm)	7.0	91.6	20.0	37.2	49.2	47.0	14.8	1.6	4.0	392.6	60.9	61.2
Rainy Days	3	11	5	4	7	6	3	2	1	16	13	9
Av. Rainfall / Event (mm)	2.3	8.3	4.0	9.3	7.0	7.8	4.9	0.8	4.0	24.5	4.7	6.8
Events >90mm (5 Days)	0	0	0	0	0	0	0	0	0	7	0	0

Blast Monitoring Results

Note

DNT = Did Not Trigger with monitoring equipment set at a trigger point of 108 dB for Over Pressure and 0.3 mm/s for Ground Vibration

Blast Monitoring Results - YTD 2020

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	02/05/2019	14/05/2019	20/05/2019	23/05/2019	28/05/2019	03/06/2019	06/06/2019	13/06/2019	18/06/2019	01/07/2019	08/07/2019	12/07/2019	16/07/2019
TBA	Per Blast	EPL Section L3	-	115	dB (Lin Peak)	Result	104.5	107.3	DNT	DNT	DNT	115.9	DNT	111.4	118.9	107	109.5	112.5	115.9
						Pass / Fail	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Pass	Fail	Pass	Pass	Pass	Fail
			-	5	mm/s	Result	0.61	0.34	DNT	DNT	DNT	0.41	DNT	0.3	0.5	0.36	0.53	0.18	0.42
						Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	23/07/2019	25/07/2019	30/07/2019	07/08/2019	15/08/2019	21/08/2019	27/08/2019	02/09/2019	09/09/2019	19/09/2019	23/09/2019	01/10/2019	
TBA	Per Blast	EPL Section L3	-	115	dB (Lin Peak)	Result	101	108	116.4	107.7	105.8	111	111	112.8	111.4	113	106.6	DNT	106.2
						Pass / Fail	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
			-	5	mm/s	Result	0.4	0.4	0.33	0.53	0.54	0.44	0.36	0.49	0.39	0.39	0.42	DNT	0.6
						Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	08/10/2019	15/10/2019	17/10/2019	22/10/2019	29/10/2019	01/11/2019	08/11/2019	12/11/2019	15/11/2019	21/11/2019	29/11/2019	05/12/2019	11/12/2019
TBA	Per Blast	EPL Section L3	-	115	dB (Lin Peak)	Result	117.1	DNT	113.35	101	99.2	105.1	DNT	DNT	108.5	DNT	101.2	DNT	96.7
						Pass / Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
			-	5	mm/s	Result	0.49	DNT	0.35	0.37	0.3	0.38	DNT	DNT	0.46	DNT	0.32	DNT	0.3
						Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	13/12/2019	18/12/2019	09/01/2020	15/01/2020	22/01/2020	29/01/2020	13/02/2020	20/02/2020	27/02/2020	09/03/2020	11/03/2020	19/03/2020	26/03/2020
TBA	Per Blast	EPL Section L3	-	115	dB (Lin Peak)	Result	83.7	DNT	108.3	103.2	101.7	104.9	DNT	95.7	DNT	107.7	111.8	108.5	DNT
						Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
			-	5	mm/s	Result	0.41	DNT	0.06	0.23	0.41	0.23	DNT	0.45	DNT	0.08	0.77	0.4	DNT
						Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	31/03/2020	08/04/2020	24/04/2020	27/04/2020									
TBA	Per Blast	EPL Section L3	-	115	dB (Lin Peak)	Result	108.8	11.3	DNT	DNT									
						Pass / Fail	Pass	Pass	Pass	Pass									
			-	5	mm/s	Result	0.38	0.08	DNT	DNT									
						Pass / Fail	Pass	Pass	Pass	Pass									

Comments regarding deposition monitoring outcomes

Blast Date	
Blast Date	
Blast Date	

Annual Blast Monitoring Results (YTD)

Annual Blast Monitoring - Over Pressure (High Range)	
Blast Count	40
YTD Over Pressure in High Range (115 - 120 dBL)	5
% Over Pressure in High Range (115 - 120 dBL)	13%
Annual Over Pressure (Pass / Fail)	Fail

Annual Blast Monitoring - Over Pressure (Maximum Allowable)	
Blast Count	40
YTD Over Pressure Exceeding Maximum Allowable (120 dBL)	0
% Over Pressure Exceeding Maximum Allowable (120 dBL)	0%
Annual Over Pressure (Pass / Fail)	Pass

Annual Blast Monitoring - Ground Vibration (High Range)	
Blast Count	40
YTD Ground Vibration in High Range (5 - 10 mm/s)	0
% Ground Vibration in High Range (5 - 10 mm/s)	0%
Annual Ground Vibration (Pass / Fail)	Pass

Annual Blast Monitoring - Ground Vibration (Maximum Allowable)	
Blast Count	40
YTD Ground Vibration Exceeding Maximum Allowable (10 mm/s)	0
% Ground Vibration Exceeding Maximum Allowable (10 mm/s)	0%
Annual Ground Vibration (Pass / Fail)	Pass