

Pollution Monitoring Data - Holcim Teven Quarry (EPL Number 3293 & SSD 6422)

Facility Address: Stearns Lane, Teven NSW 2438
 Link to EPL on Public Register: <http://www.environment.nsw.gov.au/epm/epm.nsf/00000000-0000-0000-0000-000000000000?open>
 Date published: 28/10/2022

Air Quality Monitoring - PM10 and TSP Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Annual Average	Upper Limit
040001	Hourly (8 sites)	040	0	50	µg/m ³	Particulate Matter₁₀ (PM10)	10.7	20
Date	21/02/21	01/02/21	14/02/21	24/02/21	24/02/21	24/02/21		
Result	LowLevel	LowLevel	15.3	13.3	11.3			
Date	01/03/21	01/03/21	15/03/21	15/03/21	15/03/21	15/03/21 & 15/03/21		
Result	17	16.7	16.8	20.8	25.3			
Date	15/03/21	09/03/21	15/03/21	21/03/21	21/03/21	21/03/21		
Result	20.1	10.1	8.2	8.2	14.1			
Date	09/04/21	09/04/21	14/04/21	20/04/21	20/04/21	20/04/21		
Result	16.8	3.1	15.9	10.4	11.4			
Date	12/04/21	09/04/21	14/04/21	20/04/21	20/04/21	20/04/21 & 20/04/21		
Result	10.27	10.27	9.4	11.3	10.1			
Date	01/05/21	01/05/21	15/05/21	15/05/21	15/05/21	15/05/21 & 15/05/21		
Result	12.4	14.1	8.8	11.8	4			
Date	11/05/21	01/05/21	15/05/21	15/05/21	15/05/21	15/05/21 & 15/05/21		
Result	4	2	1.4	1.4	12			
Date	09/06/21	12/06/21	18/06/21	24/06/21	24/06/21	24/06/21		
Result	14.3	88.7	12.8	7.7	19			
Date	19/06/21	19/06/21	17/06/21	23/06/21	23/06/21	23/06/21 & 23/06/21		
Result	10.1	10.1	9	2.4	2.4			
Date	01/07/21	11/07/21	17/07/21	23/07/21	23/07/21	23/07/21		
Result	18.7	10.9	4.2	17.3	13.9			
Date	01/08/21	01/08/21	01/08/21	01/08/21	01/08/21	01/08/21		
Result	11.3	11.3	25.7	0	16.8			
Date	01/09/21	16/09/21	22/09/21	28/09/21	28/09/21	28/09/21		
Result	5.1	5.1	5.2					

Comments regarding 04 Values monitoring outcomes at 040001:
 Comment 1: Refer to 040001 and 040002 - instrument fault with data from commencement.
 Comment 2: Refer to 040001 - Results for both sites were 18.7µg/m³ and 17.3µg/m³. In accordance with trigger values have been used for publishing.
 Comment 3:
 Comment 4:
 Comment 5:
 Comment 6:
 Comment 7:

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Annual Average	Upper Limit
040002	Hourly (8 sites)	040	0	50	µg/m ³	Total suspended particulates (TSP) (Dwivedi)	25.1	50
Date	01/03/21	01/03/21	14/03/21	24/03/21	24/03/21	24/03/21		
Result	NA	NA	NA	NA	NA			
Date	15/03/21	09/03/21	15/03/21	21/03/21	21/03/21	21/03/21		
Result	47.3	47.3	47.3	58.4	72.2			
Date	09/04/21	09/04/21	14/04/21	20/04/21	20/04/21	20/04/21		
Result	81.1	22.7	20.3	22.4	41.1			
Date	12/04/21	09/04/21	14/04/21	20/04/21	20/04/21	20/04/21		
Result	41.3	12.3	11.3	27.7	72.1			
Date	15/04/21	09/04/21	14/04/21	20/04/21	20/04/21	20/04/21		
Result	29.9	29.9	29.9	29.9	29.9			
Date	01/05/21	01/05/21	15/05/21	15/05/21	15/05/21	15/05/21		
Result	121.3	21.3	6.4	40.3	34			
Date	09/06/21	12/06/21	18/06/21	24/06/21	24/06/21	24/06/21		
Result	60.8	60.8	60.8	60.8	60.8			
Date	19/06/21	19/06/21	17/06/21	23/06/21	23/06/21	23/06/21		
Result	40.9	107.7	38.9	22.0	44.3			
Date	19/06/21	19/06/21	17/06/21	23/06/21	23/06/21	23/06/21		
Result	25.2	19.9	19.9	27	6.3			
Date	01/07/21	11/07/21	17/07/21	23/07/21	23/07/21	23/07/21		
Result	10.1	10.1	11.4	11.4	11.4			
Date	01/08/21	01/08/21	01/08/21	01/08/21	01/08/21	01/08/21		
Result	25.0	25.0	6.3					

Comments regarding 04 Values monitoring outcomes at 040002:
 Comment 1: Refer to 040001 and 040002 - instrument fault with data from commencement.
 Comment 2: Refer to 040001 - Results for both sites were 18.7µg/m³ and 17.3µg/m³. In accordance with trigger values have been used for publishing.
 Comment 3: Refer to 040001 - Results for both sites were 18.7µg/m³ and 17.3µg/m³. In accordance with trigger values have been used for publishing.
 Comment 4: Refer to 040001 - Results for both sites were 18.7µg/m³ and 17.3µg/m³. In accordance with trigger values have been used for publishing.
 Comment 5:
 Comment 6:
 Comment 7:

Air Quality Monitoring - Deposition Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Annual Average	January	February	March	April	May	June	July	August	September	October	November	December	
03	Monthly	EPL	0	4	mg/m ² /month	Particulate Matter	1.9	0.9	1.2	0.4	0.1	0.4	0.4	0.7	0.4	1.2	1.5	4.0	0.2	
02	Monthly	EPL	0	4	mg/m ² /month	Particulate Matter	1.8	1.1	2.4	0.4	0.2	0.3	0.4	0.4	0.7	1.1	0.9	1.1	0.9	0.2
03	Monthly	EPL	0	4	mg/m ² /month	Particulate Matter	8.7	0.3	0.6	2.5	0.3	1.2	0.7	1.1	0.7	1.1	0.9	1.1	0.9	0.2

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

Noise Monitoring Results

Location	Lower Limit	Upper Limit	Unit	Description	Quarter	2021 Q1		2021 Q2		2021 Q3		2021 Q4	
						Time	24/9/2021	Time	19/6/2021	Time	20/9/2021 & 21/9/2021	Time	20/12/2021
N1 (R7)	0	37	dB	L _{eq} (15 min) Day	Result	7:26	56	11:45	37	8:28	49	7:20	45
						Estimated quarry contribution	-29	-29	-29	-29			
						Result	7:41	56	12:00	36	8:40	49	7:35
	0	35	dB	L _{eq} (15 min) Even	Result	18:08	58	18:04	40	18:37	41	18:11	40
						Estimated quarry contribution	0	0	0	0			
						Result	0	0	0	0			
N2 (R14)	0	36	dB	L _{eq} (15 min) Day	Result	18:13	55	18:38	37	18:47	38	18:39	45
						Estimated quarry contribution	0	0	0	0			
						Result	8:09	55	13:05	33	9:30	46	8:04
	0	36	dB	L _{eq} (15 min) Even	Result	8:24	55	13:20	45	9:21	46	8:19	45
						Estimated quarry contribution	-29	-29	-29	-29			
						Result	18:30	53	18:34	46	18:31	46	18:10
N3 (R2)	0	35	dB	L _{eq} (15 min) Day	Result	18:05	50	18:49	40	18:30	38	18:08	40
						Estimated quarry contribution	0	0	0	0			
						Result	0	0	0	0			
	0	37	dB	L _{eq} (15 min) Even	Result	8:04	43	12:30	30	8:47	40	8:06	45
						Estimated quarry contribution	-29	-29	-29	-29			
						Result	8:59	43	12:41	30	10:02	41	8:01
N4 (R14)	0	35	dB	L _{eq} (15 min) Day	Result	19:27	55	18:59	47	19:15	46	19:20	45
						Estimated quarry contribution	0	0	0	0			
						Result	19:42	50	19:14	45	20:08	28	19:44
	0	35	dB	L _{eq} (15 min) Even	Result	0	0	19:14	45	20:08	0	19:44	41
						Estimated quarry contribution	0	0	0	0			
						Result	9:23	53	13:03	38	10:21	39	9:23
N5 (R15)	0	37	dB	L _{eq} (15 min) Day	Result	9:38	55	14:10	45	10:40	40	9:38	39
						Estimated quarry contribution	0	0	0	0			
						Result	20:05	51	20:43	40	20:29	33	20:08
	0	36	dB	L _{eq} (15 min) Even	Result	20:20	50	20:36	46	20:49	31	20:21	36
						Estimated quarry contribution	0	0	0	0			
						Result	10:11	41	14:30	43	11:06	39	10:06
N6 (R15)	0	38	dB	L _{eq} (15 min) Day	Result	10:11	41	14:30	43	11:06	39	10:06	41
						Estimated quarry contribution	-29	-29	-29	-29			
						Result	10:38	40	14:45	43	11:21	39	10:39
	0	35	dB	L _{eq} (15 min) Even	Result	20:41	45	20:39	42	21:04	47	20:38	40
						Estimated quarry contribution	0	0	0	0			
						Result	20:54	45	20:24	37	21:09	40	20:54

Comments regarding noise monitoring outcomes:
 Comment 1: Data quality contribution when quarry not operational.
 Comment 2:
 Comment 3:

Blast Monitoring Results

Location	Frequency	Source	Revised Fan	Lower Limit	Upper Limit	Unit	Description	2021											
								08/10/2021	10/10/2021	04/05/2021	05/11/2021	05/06/2021	01/07/2021	30/09/2021	21/09/2021	26/10/2021	25/11/2021		
Site on Stearns Ln	Per Blast	Blast monitor	0	115	120	dB (L _{eq} Peak)	0	0	0	0	0	0	0	0	0	0	0	0	0
Residence on Wilbers Rd	Per Blast	Blast monitor	0	115	120	dB (L _{eq} Peak)	108	103	112	103.3	108.4	108.1	DNT	100.4	100.5	108.2			
Site Entrance, Stearns Ln	Per Blast	Blast monitor	0	115	120	dB (L _{eq} Peak)	1.26	3.64	1.39	3.38	1.23	3	DNT	4.1	3.26	2.34			
Residence Past 400m boundary	Per Blast	Blast monitor	0	115	120	dB (L _{eq} Peak)	1.47	0.78	1.44	4.99	1.48	0.98	1.38	1.06	0.13				

Comments regarding blast monitoring outcomes:
 Comment 1: No Trigger March 2021
 Comment 2: No Trigger April 2021
 Comment 3: Dispersion model exceedance on 23/09/21. Memon investigation carried out could not determine root cause. Site Defence monitoring location has since been moved to new location in line with Blast Management Plan.

Surface Water Monitoring Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Month	January	February	March	April	May	June	July	August	September	October	November	December
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