



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

Facility Address: Stokers Lane, Teven NSW 2478
 Link to EPL on Public Register: <https://apps.epa.nsw.gov.au/pmoeoapp/Detail.aspx?instid=3293&id=3293&option=licence&searchrange=licence&range=POE0%20licence&pp=no&status=Issued>
 Date published: 12/08/2022

Air Quality Monitoring - PM10 and TSP Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Annual average	Upper Limit
HVAS1	24hr average (every 6 days)	EPL	-	50	µg/m3	Particulate Matter < 10 µm (PM10)	12.5	25
Date	03/01/2022	01/09/2022	15/1/2022	21/1/2022	27/1/2022	01/1/1900		
Result	6.9	34.1	4.4	3.6	24.5	0		
Date	02/02/2022	02/08/2022	14/2/2022	20/2/2022	26/2/2022	00/01/1900		
Result	16.3	13.3	19.2	-	-	0		
Date	04/03/2022	03/10/2022	16/3/2022	22/3/2022	28/3/2022	00/01/1900		
Result	-	5.7	6.1	4.7	11.7	0		
Date	03/04/2022	04/09/2022	15/4/2022	21/4/2022	27/4/2022	00/01/1900		
Result	28	18.6	18.5	7.7	9.2	0		
Date	03/05/2022	05/09/2022	15/5/2022	21/5/2022	27/5/2022	00/01/1900		
Result	5.2	10.7	4.2	9.7	6.2	0		
Date	02/06/2022	08/06/2022	14/06/2022	20/06/2022	26/06/2022	00/01/1900		
Result	8.7	7.3	4.4	12	7.9	0		
Date	02/07/2022	08/07/2022	14/07/2022	20/07/2022	26/07/2022	00/01/1900		
Result	3.7	5.3	9.7	24.2	6.1	0		
Date	01/08/2022	07/08/2022	13/08/2022	19/08/2022	25/08/2022	31/08/2022		
Result	7.9	8	-	6.5	15.8	29.7		
Date	06/09/2022	12/09/2022	18/09/2022	24/09/2022	30/09/2022	01/00/1900		
Result	11.7	13.5	5.8	14.1	13	0		
Date	06/10/2022	12/10/2022	18/10/2022	24/10/2022	30/10/2022	01/00/1900		
Result	-	-	15.7	14	6.9	0		
Date	05/11/2022	11/11/2022	17/11/2022	23/11/2022	29/11/2022			
Result	17.1	5.3	18.3	21.6	35.1			
Date	05/12/2022	11/12/2022	17/12/2023	23/12/2022	29/12/2022	01/00/1900		
Result	9.2	21.1	-	23	5.6	0		

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Annual average	Upper Limit
HVAS1	24hr average (every 6 days)	EPL	-	90	µg/m3	Total suspended particulates (TSP) [Derived]	35.8	90
Date	03/01/2022	01/09/2022	15/1/2022	21/1/2022	27/1/2022	00/01/1900		
Result	19.7	97.4	12.6	10.3	70.0	0		
Date	02/02/2022	02/08/2022	14/2/2022	20/2/2022	26/2/2022	01/1/1900		
Result	46.6	38.0	54.9	-	-	0.0		
Date	04/03/2022	03/10/2022	16/03/2022	22/03/2022	28/03/2022	01/1/1900		
Result	-	16.3	17.4	13.4	33.4	0.0		
Date	03/04/2022	04/09/2022	15/04/2022	21/04/2022	27/04/2022			
Result	80.0	53.1	52.9	22.0	26.3			
Date	03/05/2022	05/09/2022	15/05/2022	21/05/2022	27/05/2022			
Result	14.9	30.6	12.0	27.7	17.7			
Date	02/06/2022	08/06/2022	14/06/2022	20/06/2022	26/06/2022			
Result	24.9	20.9	12.6	34.3	22.6			
Date	02/07/2022	08/07/2022	14/07/2022	20/07/2022	26/07/2022	01/1/1900		
Result	10.6	15.1	27.7	69.1	17.4	0.0		
Date	01/08/2022	07/08/2022	13/08/2022	19/08/2022	25/08/2022	31/08/2022		
Result	22.6	22.9	-	18.6	45.1	84.9		
Date	06/09/2022	12/09/2022	18/09/2022	24/09/2022	30/09/2022	01/00/1900		
Result	33.4	38.6	16.6	40.3	37.1	0.0		
Date	06/10/2022	12/10/2022	18/10/2022	24/10/2022	30/10/2022	01/00/1900		
Result	-	-	44.9	40.0	19.7	0.0		
Date	05/11/2022	11/11/2022	17/11/2022	23/11/2022	29/11/2022	01/00/1900		
Result	48.9	15.1	52.3	61.7	100.3	0.0		
Date	05/12/2022	11/12/2022	17/12/2023	23/12/2022	29/12/2022	01/00/1900		
Result	26.3	60.3	-	65.7	16.0	0.0		

Comments regarding Hi Volume monitoring outcomes at HVAS 1

Comment 1:	TSP factor from overbuden US EPA AP42 2015, where PM10 is 35% of TSP
Comment 2:	Samples for 20/02/2022, 26/02/2022 and 4/03/2022 invalidated as filter remained in unit for three sampling dates
Comment 3:	Sample for 13/08/2022 lost
Comment 4:	Samples for 6/10/2022 and 12/10/2022 invalidated as filter remained in unit for two sampling dates
Comment 5:	0
Comment 6:	0
Comment 7:	0

Air Quality Monitoring - Deposition Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Annual Average 2022	January 14/01/2022	February 11/02/2022	March 14/03/2022	April 13/04/2022	May 11/05/2022	June 09/06/2022	July 09/07/2022	August 11/08/2022	September 12/09/2022	October 13/10/2022	November 14/11/2022	December 15/12/2022
D1	Monthly	EPL	0	4	mg/m2/month	Insoluble Solids Result	0.4	0.1	0.6	0.4	1	1.1	0.1	0.4	8.2	0.1	0.2	0.2	0.4
D2	Monthly	EPL	0	4	mg/m2/month	Insoluble Solids Result	0.9	0.9	0.8	0.7	1.4	1	0.2	1.1	1.1	0.6	0.3	Invalidated	2
D3	Monthly	EPL	0	4	mg/m2/month	Insoluble Solids Result	1.1	1.1	1	0.8	1.6	0.6	0.7	0.3	0.3	0.1	0.2	1.2	1
Laboratory Report Issue Date							N/A	28/01/2022	22/02/2022	24/03/2022	05/04/2022	06/02/2022	24/06/2022	20/07/2022	23/08/2022	27/09/2022	25/10/2022	28/11/2022	23/12/2022

Comment 1:	D2 result invalidated for November. Contaminated with a dead frog
Comment 2:	0
Comment 3:	0

Comments regarding deposition monitoring outcomes

Noise Monitoring Results

Location	Lower Limit	Upper Limit	Unit	Description	Quarter	2022 Q1				2022 Q2				2022 Q3				2022 Q4			
						Sample Date	Time	1/02/2022 & 2/02/2022		Time	Time		Time	Time							
								Result	Estimated quarry contribution		Result	Estimated quarry contribution		Result	Estimated quarry contribution	Result	Estimated quarry contribution				
N1 (R7)	0	37	dB	aeq (15 min) Day	Result	7:08	53		9:09	55		8:39	47		7:00	46					
					Estimated quarry contribution		<35			<30			32			<37					
	0	37	dB	aeq (15 min) Day	Result	7:23	54		9:24	48		8:54	44		7:15	35					
					Estimated quarry contribution		<35			<29			<30			<37					
N2 (R3/R4)	0	35	dB	aeq (15 min) Even	Result	18:05	57		18:25	41		18:09	47		20:53	42					
					Estimated quarry contribution		0			0			0			<35					
	0	35	dB	aeq (15 min) Even	Result	18:20	59		18:40	41		18:24	45		21:09	40					
					Estimated quarry contribution		0			0			0			<35					
N3 (R2)	0	38	dB	aeq (15 min) Day	Result	7:51	67		9:51	69		9:24	63		8:53	66					
					Estimated quarry contribution		<35			<32			<35			<38					
	0	38	dB	aeq (15 min) Day	Result	8:06	67		10:06	64		9:39	64		9:09	66					
					Estimated quarry contribution		<35			<37			<38			<38					
N4 (R10)	0	35	dB	aeq (15 min) Even	Result	18:47	62		19:10	56		18:52	58		18:57	59					
					Estimated quarry contribution		0			0			0			<35					
	0	35	dB	aeq (15 min) Even	Result	19:02	54		19:25	59		19:07	58		19:12	57					
					Estimated quarry contribution		0			0			0			<35					
N5 (R15)	0	37	dB	aeq (15 min) Day	Result	8:28	60		10:27	45		9:59	36		9:29	58					
					Estimated quarry contribution		<35			<29			<30			<37					
	0	37	dB	aeq (15 min) Day	Result	8:43	60		10:42	58		10:14	38		9:45	58					
					Estimated quarry contribution		<35			<35			<30			<37					
N5 (R15)	0	35	dB	aeq (15 min) Even	Result	19:23	58		19:45	41		19:31	38		18:07	41					
					Estimated quarry contribution		0			0			0			<35					
	0	35	dB	aeq (15 min) Even	Result	19:38	61		20:00	41		19:46	36		18:38	40					
					Estimated quarry contribution		0			0			0			<35					
N4 (R10)	0	37	dB	aeq (15 min) Day	Result	9:04	65		11:04	63		10:35	62		8:20	58					
					Estimated quarry contribution		47			37			37			<37					
	0	37	dB	aeq (15 min) Day	Result	9:19	64		11:19	64		10:50	57		8:35	56					
					Estimated quarry contribution		47			36			37			<37					
N5 (R15)	0	35	dB	aeq (15 min) Even	Result	19:59	65		20:22	46		20:12	40		20:07	59					
					Estimated quarry contribution		0			0			0			<35					
	0	35	dB	aeq (15 min) Even	Result	20:14	54		20:37	38		20:27	41		20:23	55					
					Estimated quarry contribution		0			0			0			<35					
N5 (R15)	0	38	dB	aeq (15 min) Day	Result	9:38	57		11:37	62		11:07	56		7:43	44					
					Estimated quarry contribution		<35			30			<35			<37					
	0	38	dB	aeq (15 min) Day	Result	9:53	58		11:52	63		11:22	60		7:59	44					
					Estimated quarry contribution		<35			35			<35			<37					
N5 (R15)	0	35	dB	aeq (15 min) Even	Result	20:32	50		20:56	52		20:45	37		19:31	41					
					Estimated quarry contribution		0			0			0			<35					
	0	35	dB	aeq (15 min) Even	Result	20:47	50		21:11	37		21:00	49		19:46	46					
					Estimated quarry contribution		0			0			0			<35					
Laboratory Report Issue Date																9/2/2022	30/05/2022	7/9/2022	24/01/2023		

Comments regarding noise monitoring outcomes	
Comment 1:	Zero quarry contribution when quarry not operational
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

Blast Monitoring Results 2022

Location	Frequency	Source	Required For:	Lower Limit	Upper Limit	Unit	Description
Barn on Stokers Ln	Per Blast	Blast monitor	0	115	120	dB (Lin Peak)	Over Pressure
				5	10	mm/s	Ground Vibration
Residence on Wellers Rd	Per Blast	Blast monitor	0	115	120	dB (Lin Peak)	Over Pressure
				5	10	mm/s	Ground Vibration
Site Entrance, Stokers Ln	Per Blast	Blast monitor	0	115	120	dB (Lin Peak)	Over Pressure
				5	10	mm/s	Ground Vibration
Southern Pad within boundary	Per Blast	Blast monitor	0	115	120	dB (Lin Peak)	Over Pressure
				5	10	mm/s	Ground Vibration

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

Surface Water Monitoring Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Month Sample Date	March 15/3/22
LDP (Licensed discharge point)	Wet Weather Discharge - Special Frequency 1	EPL	6.5	8.5	pH	pH	Result	7.39
			-	50	mg/L	Suspended Solids	Result	1
			-	-	mg/L	Total Oil & Grease	Result	-
			-	-	pH	pH	Result	-
Discharge Point 2			-	-	mg/L	Suspended Solids	Result	-

