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/prpoeoapp/Detail.aspx?instId=3293&id=3293&option=licence&searchrange=licence&range=POEO%20licence&prp=no&status=Issued
Date published	Wednesday, 25 October 2023

Air Quality Monitoring - PM10 and TSP Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description
HVAS1	24hr average (every 6 days)	EPL	-	50	µg/m3	Particulate Matter < 10 µm (PM10)

Annual average	Upper Limit
#REF!	25

Date	04/01/2023	10/01/2023	16/01/2023	22/01/2023	28/01/2023		25/01/2023 & 24/02/2023
Result	18.1	9.2	6.9	0.2	12.5		
Date	03/02/2023	09/02/2023	15/02/2023	21/02/2023	27/02/2023		24/02/2023 & 29/03/2023
Result	17.1	11.4	14.5	4.9	-		
Date	07/03/2023	11/03/2023	17/3/2023	23/3/2023	29/3/2023		29/03/2023 & 21/04/2023
Result	11.9	4.2	23.2	10.9	14.4		
Date	4/4/2023	10/4/2023	16/04/2023	22/04/2023	28/04/2023		21/04/2023 & 26/05/2023
Result	23.2	18.9	8.1	9.4	8.2		
Date	4/5/2023	10/5/2023	16/05/2023	22/05/2023	28/05/2023		26/05/2023 & 4/07/2023
Result	20.8	5.4	5.2	16.3	12.6		
Date	3/6/2023	9/6/2023	9/6/2023	15/06/2023	21/06/2023	27/06/2023	04/07/2023 & 8/08/2023
Result	10.8	4.8	6.9	6.3	6	9.2	
Date	3/7/2023	9/7/2023	15/07/2023	21/07/2023	27/07/2023		08/08/2023 & 6/09/2023
Result	12	6.6	10	6.1	26.2		
Date	2/8/2023	8/8/2023	14/08/2023	20/08/2023	26/08/2023		06/09/2023 & 22/09/2023
Result	17.1	4	16.8	13.4	16.8		
Date	1/9/2023	7/9/2023	13/09/2023	19/09/2023	25/09/2023		22/09/2023 & 27/10/2023
Result	19.5	18.4	12	9.6	19.3		
Date	1/10/2023	7/10/2023	13/10/2023	19/10/2023	25/10/2023	31/10/2023	27/10/2023 & 27/11/2023
Result	10.3	9	26.4	16.1	30.6	10.3	
Date	6/11/2023	12/11/2023					27/11/2023
Result	20.5	11.8					
Date							
Result							

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description
HVAS1	24hr average (every 6 days)	EPL	-	90	µg/m3	Total suspended particulates (TSP) [Derived]

Annual average	Upper Limit
#REF!	90

Date	04/01/2023	10/01/2023	16/01/2023	22/01/2023	28/01/2023		
Result	51.7	26.3	19.7	0.6	35.7		N/A
Date	03/02/2023	09/02/2023	15/02/2023	21/02/2023	27/02/2023		
Result	48.9	32.6	41.4	14.0	-		N/A
Date	07/03/2023	11/03/2023	17/3/2023	23/3/2023	29/3/2023		
Result	34.0	12.0	66.3	31.1	41.1		N/A
Date	4/4/2023	10/4/2023	16/04/2023	22/04/2023	28/04/2023		
Result	66.3	54.0	23.1	26.9	23.4		N/A
Date	4/5/2023	10/5/2023	16/05/2023	22/05/2023	28/05/2023		
Result	59.4	15.4	14.9	46.6	36.0		N/A
Date	3/6/2023	9/6/2023	9/6/2023	15/06/2023	21/06/2023	27/06/2023	
Result	30.9	13.7	19.7	18.0	17.1	26.3	N/A
Date	3/7/2023	9/7/2023	15/07/2023	21/07/2023	27/07/2023		
Result	34.3	18.9	28.6	17.4	74.9		N/A
Date	2/8/2023	8/8/2023	14/08/2023	20/08/2023	26/08/2023		
Result	48.9	11.4	48.0	38.3	48.0		N/A
Date	1/9/2023	7/9/2023	13/09/2023	19/09/2023	25/09/2023		
Result	55.7	52.6	34.3	27.4	55.1		N/A
Date	1/10/2023	1/11/2023	1/12/2023	1/13/2023	1/14/2023	1/15/2023	
Result	29.4	25.7	75.4	46.0	87.4	29.4	N/A
Date	6/11/2023	12/11/2023					
Result	58.6	33.7					N/A
Date							
Result							N/A

Comments regarding Hi Volume monitoring outcomes at HVAS 1	
Comment 1:	#REF!
Comment 2:	No sample collected for 27/02/2023 as unit didn't run due to unknown issue with unit dropping out.
Comment 3:	Unit didn't run on 5/03/2023 due to unknown issue of unit dropping out so unit made to run out of 1-in-6 day schedule on 7/03/2023 to account for lost day.
Comment 4:	
Comment 5:	#REF!
Comment 6:	#REF!
Comment 7:	#REF!

Air Quality Monitoring - Deposition Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description		Annual Average 2022	January 12/01/2023	February 13/02/2023	March 14/03/2023	April 12/04/2023	May 11/05/2023	June 13/06/2023	July 12/07/2023	August 12/08/2023	September 11/09/2023	October 12/10/2023	November 13/11/2023	December
D1	Monthly	EPL	0	4	mg/m2/month	Insoluble Solids	Result	1.6	2.2	0.9	0.8	0.6	0.5	0.4	0.3	0.7	1.4	0.2	3.6	
D2	Monthly	EPL	0	4	mg/m2/month	Insoluble Solids	Result	1.2	1.3	1.1	1.1	1.4	3	0.4	1.2	0.4	0.8	1	2.7	
D3	Monthly	EPL	0	4	mg/m2/month	Insoluble Solids	Result	0.2	0.2	0.2	0.3	0.9	0.3	0.1	0.1	0.9	2.8	0.3	1.5	
						Laboratory Report Issue Date		N/A	25/01/2023	24/02/2023	29/03/2023	12/4/2023	26/05/2023	4/7/2023	8/8/2023	6/9/2023	22/09/2023	27/10/2023	27/11/2023	

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

Noise Monitoring Results

Location	Lower Limit	Upper Limit	Unit	Description	Quarter	2023 Q1		2023 Q2		2023 Q3		2023 Q4	
					Sample Date	Time	10/01/2023 and 11/01/2023	Time	10/05/2023 & 13/06/2023	Time		Time	
N1 (R7)	0	37	dB	LAeq (15 min) Day	Result	9:56	51.3	17:32	53.9	12:00	45.9		
					Estimated quarry contribution		<37		<28		<28		
	0	37	dB	LAeq (15 min) Day	Result	10:12	54	17:44	53.6	12:16	54.5		
					Estimated quarry contribution		<37		<30		<27		
	0	35	dB	LAeq (15 min) Evening	Result	19:00	51.4	18:10	41.4	18:00	52.4		
					Estimated quarry contribution		<35		<30		0		
	0	35	dB	LAeq (15 min) Evening	Result	19:16	48.2	18:33	42.2	18:16	51.5		
					Estimated quarry contribution		<35		<30		0		
N2 (R3/R4)	0	38	dB	LAeq (15 min) Day	Result	12:07	61.4	14:33	66.1	9:55	58.1		
					Estimated quarry contribution		<38		<34		<33		
	0	38	dB	LAeq (15 min) Day	Result	12:24	60.8	14:53	67.5	10:10	55.3		
					Estimated quarry contribution		<38		<35		<31		
	0	35	dB	LAeq (15 min) Evening	Result	20:53	51.8	18:41	37.1	20:00	57.9		
					Estimated quarry contribution		<35		<25		0		
	0	35	dB	LAeq (15 min) Evening	Result	21:09	53	19:00	37.8	20:18	50.9		
					Estimated quarry contribution		<35		<25		0		
N3 (R2)	0	37	dB	LAeq (15 min) Day	Result	12:46	56.8	12:20	44.3	9:09	43.4		
					Estimated quarry contribution		<37		28		<30		
	0	37	dB	LAeq (15 min) Day	Result	13:05	50.6	12:36	44.6	9:25	44.4		
					Estimated quarry contribution		<37		<28		<30		
	0	35	dB	LAeq (15 min) Evening	Result	21:28	43.3	8:01	36.1	20:40	50.3		
					Estimated quarry contribution		<35		<24		0		
	0	35	dB	LAeq (15 min) Evening	Result	21:44	52.7	18:18	35.2	20:55	51.3		
					Estimated quarry contribution		<35		<23		0		
N4 (R10)	0	37	dB	LAeq (15 min) Day	Result	11:25	58.8	13:53	56	11:21	54.9		
					Estimated quarry contribution		<37		<34		<43		
	0	37	dB	LAeq (15 min) Day	Result	11:41	55.1	14:08	54	11:37	56.4		
					Estimated quarry contribution		<37		<34		<44		
	0	35	dB	LAeq (15 min) Evening	Result	20:01	54.3	19:22	39.2	19:23	41.7		
					Estimated quarry contribution		<35		<26		0		
	0	35	dB	LAeq (15 min) Evening	Result	20:36	46.5	19:41	36.9	19:39	41.8		
					Estimated quarry contribution		<35		<26		0		
N5 (R15)	0	38	dB	LAeq (15 min) Day	Result	10:40	47.5	15:35	47.7	12:43	66.5		
					Estimated quarry contribution		<37		<32		<28		
	0	38	dB	LAeq (15 min) Day	Result	10:56	47.2	15:50	46.5	12:58	64.3		
					Estimated quarry contribution		<37		<31		<29		
	0	35	dB	LAeq (15 min) Evening	Result	19:43	47.4	20:03	47.1	18:47	56		
					Estimated quarry contribution		<35		<27		0		
	0	35	dB	LAeq (15 min) Evening	Result	20:18	52	20:23	40.3	19:02	55.6		
					Estimated quarry contribution		<35		<24		0		
					Laboratory Report Issue Date	11/04/2023		09/08/2023		26/10/2023			

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
LDP (Licensed discharge point)	Wet Weather Discharge - Special Frequency 1	EPL	6.5	8.5	pH	pH	Result
			-	50	mg/L	Suspended Solids	Result
			-	-	mg/L	Total Oil & Grease	Result
	Discharge Point 2		-	-	pH	pH	Result
			-	-	mg/L	Suspended Solids	Result
			-	-	mg/L	Total Oil & Grease	Result
			-	-	pH	pH	Result

	Level 3 Discharge Point		-	-	mg/L	Suspended Solids	Result																		
			-	-	mg/L	Total Oil & Grease	Result																		
	Level 9 Discharge Point		-	-	pH	pH	Result																		
			-	-	mg/L	Suspended Solids	Result																		
			-	-	mg/L	Total Oil & Grease	Result																		
	Level 4 Dam		-	-	pH	pH	Result																		
			-	-	mg/L	Suspended Solids	Result																		
			-	-	mg/L	Total Oil & Grease	Result																		
	Pit Dam		-	-	pH	pH	Result																		
			-	-	mg/L	Suspended Solids	Result																		
			-	-	mg/L	Total Oil & Grease	Result																		
	Pit 1		-	-	pH	pH	Result																		
			-	-	mg/L	Suspended Solids	Result																		
			-	-	mg/L	Total Oil & Grease	Result																		
	Dam - LOP2		-	-	pH	pH	Result																		
			-	-	mg/L	Suspended Solids	Result																		
			-	-	mg/L	Total Oil & Grease	Result																		