



Pollution Monitoring Data - Holcim Lynwood Quarry (EPL Number 12939)

Facility Address	278 Stony Creek Road, Marulan, NSW, 2579
Link to EPL on Public Register	https://www.holcim.com.au/sustainability/environment/pollution-monitoring-data
Date Dataset Updated	Wednesday, December 8, 2021
Date Dataset Published	Thursday, December 9, 2021

Air Quality Monitoring - Deposition Results							Month	April	May	June	July	August	September	October	November	December	January	February	March	April	May	June	July	August	September	October	November						
Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Sample Date	28-Apr-2020	4-May-2020	29-Jun-2020	30-Jul-2020	28-Aug-2020	28-Sep-2020	28-Oct-2020	26-Nov-2020	24-Dec-2020	22-Jan-2021	18-Feb-2021	16-Mar-2021	16-Apr-2021	17-May-2021	16-Jun-2021	16-Jul-2021	16-Aug-2021	16-Sep-2021	16-Oct-2021	16-Nov-2021						
D3	Monthly	EPL	-	4	mg/m2/month	Insoluble Solids	Result	1.8	1.6	2.8	0.3	0.2	1.4	0.3	1.1	1.2	0.5	5.2	4.9	0.7	1.3	0.7	0.2	0.2	1.5	1.3	8.4						
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
							Result	16.5	37.9	3.1	1.1	17.4	8.8	10.3	3.9	3.7	0.7	0.3	1.8	0.3	1.8	0.3	0.3	0.3	0.3	0.3	3.7	48.5	1.6	8.9	68.1		
D4	Monthly	EPL	-	4	mg/m2/month	Insoluble Solids	Result	0.2	0.3	0.9	1.1	0.2	38.7	0.8	0.6	1.3	0.3	0.4	0.3	0.2	0.5	0.4	0.7	1	0.9	1.4	3						
							Pass / Fail	Pass	Pass	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
							Result	0.4	0.3	0.2	0.3	0.3	0.5	0.5	0.6	0.8	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
D5	Monthly	EPL	-	4	mg/m2/month	Insoluble Solids	Result	0.4	0.3	0.2	0.3	0.3	0.5	0.5	0.6	0.8	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1					
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
							Result	0.4	0.3	0.2	0.3	0.3	0.5	0.5	0.6	0.8	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Comments: Add any comments regarding the deposition monitoring outcomes in the fields below

Comment 1: Results will be averaged. Annual average value.

Comment 2: August 2021 - insoluble result from D4 has had a bush in the funnel. Bush was pulled back.

Comment 3: October 2021 - leaves in funnel of D4, bushes around D4 station have been cut & trimmed back.

Comment 4: D1 November 2021 8.4 insects in bottle - this is private property and construction work is been carried out this month.

Comment 5: D4 November 2021 68.3 insects in bottle.

Comment 6:

Comment 7:

Comment 8:

Groundwater Monitoring Results

Location	Northern Dune, Northern Dune Extension, Lot 2, Area 15-17
Frequency	Quarterly and Annually
Source	EPL 11633, 11685, 11710, 21088

pH		Q2 - 2020	Q3 - 2020	Q4 - 2020	Q1 - 2021
Location	Unit	29.06.2020	23.09.2020	10.12.2020	04.03.2021
Piezo 1	pH Units	4.4	5.3	4.6	4.62
Piezo 2	pH Units	5.3	5.0	5.8	6.23
Piezo 3	pH Units	4.1	3.5	4.2	4.07
AC1-2	pH Units		4.53		5
AC1-3	pH Units		4.61		4.94
AC1-4	pH Units		4.19		4.62
AC1-5	pH Units		4.36		4.85
AC1-6	pH Units				
AC1-8	pH Units				
AC1-7	pH Units				
AC1-11	pH Units		4.67		4.96
AC1-12	pH Units		5.72		3.98
AC1-13	pH Units		4.68		5.58
AC1-14	pH Units				
AC1-16	pH Units				
AC1-18	pH Units				
AC1-19	pH Units		4.09		4.45
SK3530	pH Units				
SAL 4	pH Units		3.69		4.81

Conductivity @ 25oC		Q2 - 2020	Q3 - 2020	Q4 - 2020	Q1 - 2021
Location	Unit	29.06.2020	23.09.2020	10.12.2020	04.03.2021
Piezo 1	µS/cm	93.0	121.0	114.0	80.0
Piezo 2	µS/cm	184.0	137.0	120.0	207.0
Piezo 3	µS/cm	183.0	291.0	111.0	179.0
AC1-2	µS/cm		141		128
AC1-3	µS/cm		166		185
AC1-4	µS/cm		138		144
AC1-5	µS/cm		141		143
AC1-6	µS/cm				
AC1-8	µS/cm				
AC1-7	µS/cm				
AC1-11	µS/cm		126		98
AC1-12	µS/cm		621		362
AC1-13	µS/cm		105		112
AC1-14	µS/cm				
AC1-16	µS/cm				
AC1-18	µS/cm				
AC1-19	µS/cm		112		109
SK3530	µS/cm				
SAL 4	µS/cm		178		145

Dissolved Iron		Q2 - 2020	Q3 - 2020	Q4 - 2020	Q1 - 2021
Location	Unit	29.06.2020	23.09.2020	10.12.2020	04.03.2021
Piezo 1	mg		0.1	0.1	0.2
Piezo 2	mg		0.5	0.2	0.2
Piezo 3	mg		0.1	0.1	0.1
AC1-2	mg			3.77	2.55
AC1-3	mg		1.26		0.88
AC1-4	mg		0.27		0.25
AC1-5	mg		0.46		0.58
AC1-6	mg				
AC1-8	mg				
AC1-7	mg				
AC1-11	mg		1.6		0.9
AC1-12	mg		0.14		0.15
AC1-13	mg		1.38		1
AC1-14	mg				
AC1-16	mg				
AC1-18	mg				
AC1-19	mg		0.19		0.35
SK3530	mg		<0.05		
SAL 4	mg		0.11		0.38

Total Iron		Q2 - 2020	Q3 - 2020	Q4 - 2020	Q1 - 2021
Location	Unit	29.06.2020	23.09.2020	10.12.2020	04.03.2021
Piezo 1	mg	0.3	0.1	0.6	0.3
Piezo 2	mg	1.4	0.6	1.9	0.4
Piezo 3	mg	0.8	0.2	0.8	0.1
AC1-2	mg		3.62		2.74
AC1-3	mg		1.13		1.14
AC1-4	mg		0.26		0.3
AC1-5	mg		0.43		0.6
AC1-6	mg				
AC1-8	mg				
AC1-7	mg				
AC1-11	mg				
AC1-12	mg		6		0.2
AC1-13	mg		2.43		1.2
AC1-14	mg				
AC1-16	mg				
AC1-18	mg				
AC1-19	mg		0.22		0.4
SK3530	mg				
SAL 4	mg		1.1		0.5

Dissolved Arsenic		Q2 - 2020	Q3 - 2020	Q4 - 2020	Q1 - 2021
Location	Unit	29.06.2020	23.09.2020	10.12.2020	04.03.2021
Piezo 1	mg	<0.001	<0.001	<0.001	<0.001
Piezo 2	mg	<0.001	<0.001	<0.001	<0.001
Piezo 3	mg	<0.001	<0.001	<0.001	<0.001
AC1-2	mg		<0.001		<0.001
AC1-3	mg		1.13		1.14
AC1-4	mg		<0.001		<0.001
AC1-5	mg		<0.001		<0.001
AC1-6	mg				
AC1-8	mg				
AC1-7	mg				
AC1-11	mg		<0.001		<0.001
AC1-12	mg		<0.001		<0.001
AC1-13	mg		<0.001		<0.001
AC1-14	mg				
AC1-16	mg				
AC1-18	mg				
AC1-19	mg		<0.001		<0.001
SK3530	mg		<0.001		<0.001
SAL 4	mg		<0.001		<0.001

Total Arsenic		Q2 - 2020	Q3 - 2020	Q4 - 2020	Q1 - 2021
Location	Unit	29.06.2020	23.09.2020	10.12.2020	04.03.2021
Piezo 1	mg	<0.001	<0.001	<0.001	<0.001
Piezo 2	mg	<0.001	<0.001	<0.001	<0.001
Piezo 3	mg	<0.001	<0.001	<0.001	<0.001
AC1-2	mg		<0.001		<0.001
AC1-3	mg		1.13		1.14
AC1-4	mg		<0.001		<0.001
AC1-5	mg		<0.001		<0.001
AC1-6	mg				
AC1-8	mg				
AC1-7	mg				
AC1-11	mg		<0.001		<0.001
AC1-12	mg		<0.001		0
AC1-13	mg		0.001		<0.001
AC1-14	mg				
AC1-16	mg				
AC1-18	mg				
AC1-19	mg		<0.001		<0.001
SK3530	mg		<0.001		<0.001
SAL 4	mg		<0.001		<0.001

Dissolved Manganese		Q2 - 2020	Q3 - 2020	Q4 - 2020	Q1 - 2021
Location	Unit	29.06.2020	23.09.2020	10.12.2020	04.03.2021
Piezo 1	mg	0.0020	0.002	0.031	0.019
Piezo 2	mg	0.0480	0.009	0.021	0.006
Piezo 3	mg	0.0200	0.004	0.008	0.008

Total Manganese		Q2 - 2020	Q3 - 2020	Q4 - 2020	Q1 - 2021
Location	Unit	29.06.2020	23.09.2020	10.12.2020	04.03.2021
Piezo 1	mg	0.004	0.002	0.016	0.005
Piezo 2	mg	0.073	0.033	0.067	0.010
Piezo 3	mg	0.0230	0.018	0.011	0.010

AC1-2	mg		0.016		0.015
AC1-3	mg		0.004		0.003
AC1-4	mg		0.001		0.002
AC1-5	mg		0.002		0.002
AC1-6	mg				
AC1-8	mg				
AC1-7	mg				
AC1-11	mg		0.024		0.012
AC1-12	mg		0.027		0.004
AC1-13	mg		0.024		0.009
AC1-14	mg				
AC1-16	mg				
AC1-18	mg				
AC1-19	mg		0.004		0.005
SK3530	mg		0.004		
SAL 4	mg				

AC1-2	mg		0.016		0.016
AC1-3	mg		0.004		0.005
AC1-4	mg		0.001		0.003
AC1-5	mg		0.002		0.002
AC1-6	mg				
AC1-8	mg				
AC1-7	mg				
AC1-11	mg		0.007		0.005
AC1-12	mg		0.004		0.005
AC1-13	mg		0.028		0.011
AC1-14	mg				
AC1-16	mg				
AC1-18	mg				
AC1-19	mg		0.004		0.005
SK3530	mg		0.005		
SAL 4	mg		0.013		0.011

Water Levels		2020																			
		Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
		6/2/2020	26/3/2020	28/4/2020	28/5/2020	29/6/2020	29/7/2020	5/8/2020	12/8/2020	19/8/2020	28/8/2020	29/9/2020	28/10/2020	4/11/2020	11/11/2020	18/11/2020	26/11/2020	24/12/2020			
Location	Unit	100mm of Rain measurements										100mm of Rain measurements									
Piezo 1		7.21	7.06	7.11	7.08	6.89	7.67	7.45	7.42	7.38	7.32	7.25	7.56	7.60	7.64	7.61	7.57	7.40			
Piezo 2		8.51	8.51	8.51	8.51	6.57	7.39	7.34	7.38	7.31	7.29	7.16	7.52	7.57	7.61	7.57	7.50	7.35			
Piezo 3		7.07	6.89	6.88	6.89	6.19	7.33	7.25	7.26	7.26	6.97	7.46	7.49	7.52	7.28	7.34	7.29				
AC1-2		6.72	6.81	6.10	6.62	6.72	7.44	7.29	7.37	7.33	7.21	7.01	7.33	7.38	7.42	7.21	7.15	7.22			
AC1-3		7.24	7.25	7.09	6.91	7.24	7.94	7.94	7.90	7.84	7.79	7.59	7.85	7.89	7.93	7.85	7.79	7.63			
AC1-4		7.26	7.31	7.50	7.12	7.37	8.05	8.06	8.01	7.98	7.93	8.38	8.01	8.00	8.00	8.01	7.98	7.83			
AC1-6		5.98	6.78	6.66	6.79	6.91	7.71	7.58	7.60	7.49	7.38	7.03	7.56	7.59	7.61	7.32	7.26	7.31			
AC1-6		6.69	6.81	6.72	6.89	6.99	7.85	7.71	7.75	7.61	7.50	7.29	7.71	7.70	7.88	7.46	7.39	7.50			
AC1-7		8.00	7.90	7.74	8.18	7.70	8.57	8.50	8.50	8.43	8.38	8.23	8.54	8.52	8.50	8.29	8.23	8.48			
AC1-8		7.16	7.02	6.92	7.07	7.21	7.98	7.91	7.91	7.84	7.73	7.54	7.77	7.79	7.83	7.74	7.65	7.63			
AC1-11		6.61	6.63	6.61	6.74	6.90	7.54	7.51	7.52	7.46	7.41	7.21	7.35	7.36	7.36	7.28	7.21	7.15			
AC1-12		7.67	8.61	7.73	7.67	8.04	8.07	7.99	7.92	7.85	7.79	7.58	7.64	7.76	7.88	7.78	7.74	7.63			
AC1-13		7.78	7.73	7.83	6.81	6.90	7.67	7.66	7.61	7.53	7.48	7.48	7.45	7.53	7.61	7.51	7.45	7.29			
AC1-14		7.41	7.41	7.41	7.41	7.34	7.87	7.87	7.84	7.75	7.71	7.71	7.58	7.72	7.79	7.27	7.23	7.25			
AC1-16		7.02	7.02	6.70	6.76	6.83	7.86	7.79	7.66	7.56	7.52	7.52	7.35	7.50	7.54	7.47	7.41	7.23			
AC1-18		6.55	6.42	6.42	6.29	6.94	7.34	7.42	7.32	7.26	7.22	7.14	7.19	7.25	7.12	5.57	5.60				
AC1-19		8.24	8.38	8.26	8.35	8.50	9.20	9.26	9.13	9.06	9.00	9.00	8.76	8.84	8.88	8.70	8.81	8.66			
SK3530		6.15	6.00	5.80	5.97	6.07	6.80	6.73	6.72	6.63	6.53	6.77	6.81	6.83	6.80	6.52	6.51				
SAL 4		7.30	7.21	7.10	7.21	7.34	7.81	7.76	7.74	7.67	7.62	7.62	7.75	7.77	7.77	7.58	7.57	7.68			

Water Levels		2021																			
		Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
		21/1/2021	18/2/2021	16/3/2021	24/3/2021	31/3/2021	6/4/2021	15/4/2021	17/5/2021	16/6/2021	23/6/2021	27/7/2021	9/7/2021	16/7/2021	16/8/2021	16/9/2021	18/10/2021	16/11/2021			
Location	Unit	100mm of Rain Measurements										100mm of Rain Measurements									
Piezo 1		7.71	7.68	7.67	8.06	8.08	8.84	7.18	8.60	8.47	8.45	8.84	8.77	8.78	8.51	8.59	8.43	8.39			
Piezo 2		7.65	7.67	7.65	8.92	8.92	8.74	8.68	8.56	8.43	8.42	8.85	8.74	8.75	8.52	8.97	8.52	8.40			
Piezo 3		7.45	7.47	7.54	8.45	8.45	8.28	8.25	8.17	8.10	8.09	8.26	8.25	8.26	8.12	8.35	8.11	8.08			
AC1-2		7.28	7.52	7.54	8.20	8.32	8.33	8.32	8.26	8.24	8.23	8.39	8.32	8.41	8.04	8.29	8.13	8.12			
AC1-3		7.90	7.95	7.98	9.32	9.31	9.22	9.21	8.89	8.66	8.65	8.78	8.88	9.16	8.72	8.81	8.62	8.60			
AC1-4		8.13	8.14	8.13	9.66	9.41	9.40	9.67	9.95	9.72	9.70	9.37	9.93	9.22	9.75	9.84	9.34	8.62			
AC1-5		7.40	7.71	7.76	8.13	8.10	8.08	7.98	7.93	7.79	7.78	8.13	8.11	8.13	7.73	8.09	7.78	7.77			
AC1-6		7.50	7.87	7.84	8.29	8.25	8.23	8.11	7.92	7.79	7.77	8.29	8.26	8.29	7.75	8.10	7.85	7.85			
AC1-7		8.44	8.60	8.60	8.60	8.60	8.59	8.58	8.20	8.58	8.56	8.60	8.60	8.60	8.54	8.60	8.52	8.52			
AC1-8		7.68	7.99	8.12	8.64	8.62	8.58	8.54	8.34	8.22	8.21	8.47	8.46	8.59	8.18	8.39	8.17	8.15			
AC1-11		8.65	7.43	7.64	8.53	8.48	8.21	8.36	8.19	7.98	7.97	8.38	8.24	8.43	8.04	8.20	9.21	7.85			
AC1-12		7.84	7.88	7.80	9.45	9.20	8.76	8.60	8.39	8.22	8.19	8.62	8.53	8.69	8.29	8.30	8.22	8.19			
AC1-13		7.54	7.62	7.67	9.16	9.05	8.84	8.62	8.58	8.44	8.43	8.85	8.73	8.90	8.49	8.71	8.43	8.38			
AC1-14		7.70	7.65	7.88	9.25	9.11	8.83	8.71	8.66	8.19	8.18	8.61	8.53	8.72	8.27	8.34	8.47	8.43			
AC1-16		7.54	7.63	8.32	9.15	8.73	8.59	8.37	8.31	7.86	7.82	8.30	8.20	8.38	7.94	7.89	7.84	7.65			
AC1-18		7.12	7.30	7.31	8.22	8.19	8.13	7.99	7.93	7.60	7.59	8.11	7.92	8.11	7.73	7.87	7.65	7.64			
AC1-19		8.92	8.95	9.09	10.47	10.29	9.91	9.68	9.37	9.19	9.18	9.67	9.50	9.69	9.26	9.23	9.17	9.17			
SK3530		6.61	6.72	6.74	7.84	7.80	7.82	7.77	7.58	7.39	7.37	7.71	7.65	7.74	7.46	8.00	7.45	7.20			
SAL 4		7.71	7.82	7.83	8.50	8.42	8.33	8.26	8.12	8.01	8.01	8.26	8.18	8.28	8.02	8.25	8.16	7.97			

Comments: Add any comments regarding the deposition monitoring outcomes in the fields below	
Comment 1:	100ml of rain event marked in red. Holcim has tested monthly for the next 4 weeks.
Comment 2:	
Comment 3:	
Comment 4:	
Comment 5:	
Comment 6:	
Comment 7:	
Comment 8:	