

Pollution Monitoring Data - Holcim Dunloe Sand Quarry (EPL Number 13077)

Facility Address	Pottsville-Mooball Road, MOOBALL, NSW, 2483
Link to EPL on Public Register	https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=13077&id=13077&option=licence&searchrange=licence⦥=POEO%20licence&prp=no&status=Issued
	Wednesday, February 19, 2020

Air Quality Monitoring - Deposition Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description		January 08/01/2019	February 05/02/2019	March 08/03/2019	April 05/04/2019	May 07/05/2019	June 04/06/2019
Haul Road	Monthly	EPL		4	ma/m2/month	Insoluble	Result	0.5	0.2	1.1	0.5	0.1	0.2
Haui Road	Monthly	Section O3.1	-	4	mg/m2/month	Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
Windmill	Mandali	EPL		4		nsoluble Insoluble	Result	0.6	0.2	1	0.2	0.4	0.4
vvinamili	Monthly	Section O3.1	-	4	mg/m2/month	Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
Corres Chard	Mandali	EPL		4		Insoluble	Result	0.5	0.2	1.2	0.2	0.2	0.7
Sugar Shed	Monthly	Section O3.1	-	4	mg/m2/month	Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
Black Rock	Monthly	EPL		4	ma/m2/month	Insoluble	Result	0.3	0.2	0.9	0.9	1.2	0.2
BIACK ROCK	Worlding	Section O3.1	-	4	mg/m2/month	Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description		July 04/07/2019	August 29/08/2019	September 26/09/2019	October 24/10/2019	November 22/11/2019	December 20/12/2019
Haul Road	Monthly	EPL		4	mg/m2/month	Insoluble	Result	0.3	0.5	0.7	1.2	0.8	1.8
naui Roau	INIOTHITITY	Section O3.1	-	4	Solids Pa	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	
Windmill	Monthly	EPL		4	ma/m2/month	2/month Insoluble Solids	Result	0.3	0.5	0.6	0.7	0.5	1.8
vvinariiii	IVIOTIUTIY	Section O3.1	-	4	mg/mz/monui		Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
Sugar Shed	Monthly	EPL		4	mg/m2/month	Insoluble	Result	0.2	0.4	0.5	0.5	0.8	1.6
Sugar Sried	IVIOTIUTIY	Section O3.1	-	4	mg/m2/month	Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
Black Rock	Monthly	EPL		4	mg/m2/month	nonth Insoluble Solids	Result	1.1	1.8	1.5	1.4	0.5	1
DIACK ROCK	ivioriully	Section O3.1	-	4	mg/mz/month		Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass

	Comments regarding deposition monitoring outcomes
Comment 1:	

Noise Monitoring Results

Location	on Frequency Source Lower Limit Upper Limit Unit Description			Q1	Q2	Q3	Q4				
Location	Frequency	Source	Lower Limit	Opper Limit	Oille	Description		07/03/2019	18/06/2019	20/08/2019	28/11/2019
Dwelling Warwick	Quarterly	EPL		40	dB(A) LAeg (15 min)		Result	<31	<25	<25	<30
Park Road	(EMP R7.2)	Section L4	-	48			Pass / Fail	Pass	Pass	Pass	Pass
Dwelling Pottsville	Quarterly	EPL		40	4D(A) 1.45 min)	Result	<43	<38	<37	<30	
Road	(EMP R7.2)	Section L4	-	48	dB(A)	LAeq (15 min)	Pass / Fail	Pass	Pass	Pass	Pass
NE Boundary Near	Quarterly	EPL		48	AD(A)	I Aca (45 min)	Result	<32	<27	<35	<30
Overall Road	(EMP R7.2)	Section L4	-	40	dB(A) LAeq (15 min)	Pass / Fail	Pass	Pass	Pass	Pass	
265 Warwick Park	Quarterly	EPL		40	AD(A)	1 A (45 in)	Result	<30	<18	<30	<30
Road	(EMP R7.2)	Section L4	-	48	dB(A)	LAeq (15 min)	Pass / Fail	Pass	Pass	Pass	Pass

Surface Water Quality Monitoring

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Sample Date	January	February	March	April	May	June
	Within 24		6.5	8.5	pH units	pН	Result	Dry	Dry	Dry	Dry	Dry	Dry
	Hours Prior to		0.5	0.5	pri utilis	рп	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
Point 1	Discharge &	EPL Section 12.4			V = Visible	Total Oil & Grease	Result	Dry	Dry	Dry	Dry	Dry	Dry
Silt Pond	Daily During Each	Section L2.4 Section M2.2	-	-	NV = None Visible	Total Oil & Grease	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
	Discharge Event			50	mg/L	Suspended Solids	Result	Dry	Dry	Dry	Dry	Dry	Dry
			-	50			Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
	Within 24	Within 24	6.5	8.5 p	pH units	nl.l	Result	Dry	Dry	Dry	Dry	Dry	Dry
	Hours Prior to		0.5		pri utilis	pН	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
Point 2	Discharge &	EPL Section L2.4			V = Visible	Total Oil & Grease	Result	Dry	Dry	Dry	Dry	Dry	Dry
Dregde Pond	Daily During Each	Section L2.4 Section M2.2	-	-	NV = None Visible	Total Oil & Grease	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
	Discharge		_	50 mg/L	mg/L	Suspended Solids	Result	Dry	Dry	Dry	Dry	Dry	Dry
	Event		1	30	IIIg/L	Suspended Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Sample Date	July	August	September	October	November	December
	Within 24		6.5	8.5	.11 .25	рН	Result	Dry	Dry	Dry	Dry	Dry	Dry
	Hours Prior to		0.5	0.5	pH units		Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
Point 1	d Daily During Each Discharge Section M2.2				V = Visible	T / / 0" 0 0	Result	Dry	Dry	Dry	Dry	Dry	Dry
Silt Pond		NV = None Visible	Total Oil & Grease	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass			
			-	50	mg/L	Suspended Solids	Result	Dry	Dry	Dry	Dry	Dry	Dry
	Event			30	mg/L		Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
	Within 24		6.5	8.5	pH units	ml.l	Result	Dry	Dry	Dry	Dry	Dry	Dry
	Hours Prior to		6.5	8.5	pH units	рН	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
Point 2	Discharge &	EPL Section L2.4			V = Visible	Total Oil & Grease	Result	Dry	Dry	Dry	Dry	Dry	Dry
Dregde Pond	Daily During Each	Section M2.2	-	-	NV = None Visible	Total Oil & Grease	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
	Discharge		-	50	ma/l	Suspended Solids	Result	Dry	Dry	Dry	Dry	Dry	Dry
	Event				mg/L	Suspended Solids	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass

Comments: Add any cor	mments regarding the surface water monitoring outcomes in the fields below
Comment 1:	A result of "Dry" is recorded where the discharge point remains dry (i.e. no discharge) for the whole calendar month.
Comment 2:	There have been no surface water discharge flow from either EPA Point 1 or Point 2 throughout the whole of 2019
Comment 3:	

Groundwater Quality Monitoring

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Year	2019																							
		30400		орро:	J	2000	Sample Date	Annual Mean																							
			-	-	mg/L	Ammonia	Result	See Comment 2																							
EPL Point 3			-	-	mg/L	Chloride	Result	18																							
		EPL Section M2	-	-	μS/cm	Conductivity	Result	698																							
Ground Water Monitoring Bore	Yearly		-	-	mg/L	Total Oil & Grease	Result	See Comment 2																							
DLP1			-	-	pH units	pН	Result	4.9																							
DEI 1			-	-	M (AHD)	Standing Water Level	Result	1.92																							
			-	-	mg/L	Sulfate	Result	39																							
EPL Point 4	Yearly		-	-	mg/L	Ammonia	Result	See Comment 2																							
			-	-	mg/L	Chloride	Result	18																							
				-	-	μS/cm	Conductivity	Result	6731																						
Ground Water Monitoring Bore		EPL Section M2	-	-	mg/L	Total Oil & Grease	Result	See Comment 2																							
DLP3			-	-	pH units	pH	Result	5.5																							
DLP3			-	-	M (AHD)	Standing Water Level	Result	1.71																							
			-	-	mg/L	Sulfate	Result	259																							
		EPL Section M2					-	-	mg/L	Ammonia	Result	See Comment 2																			
EPL Point 5							ı										-	-	mg/L	Chloride	Result	646									
			-	-	μS/cm	Conductivity	Result	1782																							
Ground Water Monitoring Bore	Yearly																									-	-	mg/L	Total Oil & Grease	Result	See Comment 2
DLP5										-	-	pH units	pH	Result	5.4																
DLP5												-	-	M (AHD)	Standing Water Level	Result	1.78														
			-	-	mg/L	Sulfate	Result	82																							
			-	-	mg/L	Ammonia	Result	See Comment 2																							
EPL Point 6									50							-	-	mg/L	Chloride	Result	17										
																					-	-	μS/cm	Conductivity	Result	2561					
Ground Water Monitoring Bore DLP6	Yearly	EPL Section M2	-	-	mg/L	Total Oil & Grease	Result	See Comment 2																							
			-	-	pH units	pH	Result	4.6																							
DLPO			-	-	M (AHD)	Standing Water Level	Result	1.70																							
			-	-	mg/L	Sulfate	Result	250																							

Groundwater Quality Monitoring (Cont ...)

			-	-	mg/L	Ammonia	Result	See Comment 2																					
EPL Point 7			-	-	mg/L	Chloride	Result	717																					
			-	-	μS/cm	Conductivity	Result	3039																					
Ground Water Monitoring Bore	Yearly	EPL Section M2	-	-	mg/L	Total Oil & Grease	Result	See Comment 2																					
DLP7				-	-	pH units	рН	Result	6.3																				
DEI 7																										-	-	M (AHD)	Standing Water Level
			-	-	mg/L	Sulfate	Result	278																					

Comments: Add any cor	nments regarding the surface water monitoring outcomes in the fields below
	EPL Clause M2.2 specifies a yearly test frequency for groundwater monitoring. As the site completes this testing at a monthly or quarterly schedule against other management plans the results set out in this table represent the yearly average of all testing undertaken during the 2019 calendar year.
Comment 2:	Groundwater testing for oil/grease and ammonia was not carried out. This was due to an administrative error resulting in this testing being included in the surface water testing schedule instead of the groundwater testing schedule.