



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&range=POEO%20licence&prp=no&status=Issued
Date Dataset Updated	Wednesday, February 19, 2020

Air Quality Monitoring - Deposition Results

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

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

Comments regarding deposition monitoring outcomes

Comment 1:	
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Noise Monitoring Results

Location	Frequency	Source	Lower Limit	Upper Limit	Unit	Description	Q1	Q2	Q3	Q4	
							07/03/2019	18/06/2019	20/08/2019	28/11/2019	
Dwelling Warwick Park Road	Quarterly (EMP R7.2)	EPL Section L4	-	48	dB(A)	LAeq (15 min)	Result	<31	<25	<25	<30
							Pass / Fail	Pass	Pass	Pass	Pass
Dwelling Pottsville Road	Quarterly (EMP R7.2)	EPL Section L4	-	48	dB(A)	LAeq (15 min)	Result	<43	<38	<37	<30
							Pass / Fail	Pass	Pass	Pass	Pass
NE Boundary Near Overall Road	Quarterly (EMP R7.2)	EPL Section L4	-	48	dB(A)	LAeq (15 min)	Result	<32	<27	<35	<30
							Pass / Fail	Pass	Pass	Pass	Pass
265 Warwick Park Road	Quarterly (EMP R7.2)	EPL Section L4	-	48	dB(A)	LAeq (15 min)	Result	<30	<18	<30	<30
							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	
Point 1 Silt Pond	Within 24 Hours Prior to Discharge & Daily During Each Discharge Event	EPL Section L2.4 Section M2.2	6.5	8.5	pH units	pH	Result	Dry	Dry	Dry	Dry	Dry	Dry	
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	
			-	-	V = Visible NV = None Visible	Total Oil & Grease	Result	Dry	Dry	Dry	Dry	Dry	Dry	Dry
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	
			-	50	mg/L	Suspended Solids	Result	Dry	Dry	Dry	Dry	Dry	Dry	Dry
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	
Point 2 Dregde Pond	Within 24 Hours Prior to Discharge & Daily During Each Discharge Event	EPL Section L2.4 Section M2.2	6.5	8.5	pH units	pH	Result	Dry	Dry	Dry	Dry	Dry	Dry	
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	
			-	-	V = Visible NV = None Visible	Total Oil & Grease	Result	Dry	Dry	Dry	Dry	Dry	Dry	Dry
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	
			-	50	mg/L	Suspended Solids	Result	Dry	Dry	Dry	Dry	Dry	Dry	Dry
							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	
Point 1 Silt Pond	Within 24 Hours Prior to Discharge & Daily During Each Discharge Event	EPL Section L2.4 Section M2.2	6.5	8.5	pH units	pH	Result	Dry	Dry	Dry	Dry	Dry	Dry	
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	
			-	-	V = Visible NV = None Visible	Total Oil & Grease	Result	Dry	Dry	Dry	Dry	Dry	Dry	Dry
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	
			-	50	mg/L	Suspended Solids	Result	Dry	Dry	Dry	Dry	Dry	Dry	Dry
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	
Point 2 Dregde Pond	Within 24 Hours Prior to Discharge & Daily During Each Discharge Event	EPL Section L2.4 Section M2.2	6.5	8.5	pH units	pH	Result	Dry	Dry	Dry	Dry	Dry	Dry	
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	
			-	-	V = Visible NV = None Visible	Total Oil & Grease	Result	Dry	Dry	Dry	Dry	Dry	Dry	Dry
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	
			-	50	mg/L	Suspended Solids	Result	Dry	Dry	Dry	Dry	Dry	Dry	Dry
							Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass	

Comments: Add any comments 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
							Sample Date	Annual Mean
EPL Point 3 Ground Water Monitoring Bore DLP1	Yearly	EPL Section M2	-	-	mg/L	Ammonia	Result	See Comment 2
			-	-	mg/L	Chloride	Result	18
			-	-	µS/cm	Conductivity	Result	698
			-	-	mg/L	Total Oil & Grease	Result	See Comment 2
			-	-	pH units	pH	Result	4.9
			-	-	M (AHD)	Standing Water Level	Result	1.92
			-	-	mg/L	Sulfate	Result	39
EPL Point 4 Ground Water Monitoring Bore DLP3	Yearly	EPL Section M2	-	-	mg/L	Ammonia	Result	See Comment 2
			-	-	mg/L	Chloride	Result	18
			-	-	µS/cm	Conductivity	Result	6731
			-	-	mg/L	Total Oil & Grease	Result	See Comment 2
			-	-	pH units	pH	Result	5.5
			-	-	M (AHD)	Standing Water Level	Result	1.71
			-	-	mg/L	Sulfate	Result	259
EPL Point 5 Ground Water Monitoring Bore DLP5	Yearly	EPL Section M2	-	-	mg/L	Ammonia	Result	See Comment 2
			-	-	mg/L	Chloride	Result	646
			-	-	µS/cm	Conductivity	Result	1782
			-	-	mg/L	Total Oil & Grease	Result	See Comment 2
			-	-	pH units	pH	Result	5.4
			-	-	M (AHD)	Standing Water Level	Result	1.78
			-	-	mg/L	Sulfate	Result	82
EPL Point 6 Ground Water Monitoring Bore DLP6	Yearly	EPL Section M2	-	-	mg/L	Ammonia	Result	See Comment 2
			-	-	mg/L	Chloride	Result	17
			-	-	µS/cm	Conductivity	Result	2561
			-	-	mg/L	Total Oil & Grease	Result	See Comment 2
			-	-	pH units	pH	Result	4.6
			-	-	M (AHD)	Standing Water Level	Result	1.70
			-	-	mg/L	Sulfate	Result	250

Groundwater Quality Monitoring (Cont ...)

EPL Point 7 Ground Water Monitoring Bore DLP7	Yearly	EPL Section M2	-	-	mg/L	Ammonia	Result	See Comment 2
			-	-	mg/L	Chloride	Result	717
			-	-	µS/cm	Conductivity	Result	3039
			-	-	mg/L	Total Oil & Grease	Result	See Comment 2
			-	-	pH units	pH	Result	6.3
			-	-	M (AHD)	Standing Water Level	Result	1.82
			-	-	mg/L	Sulfate	Result	278

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

Comment 1:	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.