



Attachment 4.1H - Environmental Monitoring Worksheet

Period: 01/06/2018 - 15/06/2018

Location	Test	Freq	Limit		Units	Sample Date	NSW Environment Protection Licence Requirement	Date Sample Transferred to Laboratory	Date Sample Results Received by Holcim	Date of Remote Data Download	Result	Comments
			min	max								

Site: **Albion Park Quarry** NRR = No Result Recorded

Environment Protection Licence No.	122
Site Name (As it appears on the licence)	Albion Park Quarry
Site Address (As it appears on the licence)	Albion Park Quarry Woollybutt Drive ALBION PARK RAIL NSW 2527
Link to Licence on EPA Website	http://app.epa.nsw.gov.au/prpoeoapp/ViewPOELicence.aspx?DOCID=54925&SYSUID=1&LICID=122

Water												
Point 1	pH	After 90mm rain	6.5	8.5	pH		Y					NRR
	Oil and Grease	After 90mm rain	0	0	Visible		Y					NRR
	TSS	After 90mm rain		50	mg/L		Y					NRR
Point 2	pH	After 90mm rain	6.5	8.5	pH		Y					NRR
	Oil and Grease	After 90mm rain	0	0	Visible		Y					NRR
	TSS	After 90mm rain		50	mg/L		Y					NRR
Point 1	pH	After 90mm rain	6.5	8.5	pH		Y					NRR
	Oil and Grease	After 90mm rain	0	0	Visible		Y					NRR
	TSS	After 90mm rain		50	mg/L		Y					NRR
Point 2	pH	After 90mm rain	6.5	8.5	pH		Y					NRR
	Oil and Grease	After 90mm rain	0	0	Visible		Y					NRR
	TSS	After 90mm rain		50	mg/L		Y					NRR
Point 1	pH	After 90mm rain	6.5	8.5	pH		Y					NRR
	Oil and Grease	After 90mm rain	0	0	Visible		Y					NRR
	TSS	After 90mm rain		50	mg/L		Y					NRR
Point 2	pH	After 90mm rain	6.5	8.5	pH		Y					NRR
	Oil and Grease	After 90mm rain	0	0	Visible		Y					NRR
	TSS	After 90mm rain		50	mg/L		Y					NRR

Air												
Site 1	Ash	Monthly		90		6/5/18	Y	6/7/18	14/06/2018			38
Site 2	Ash	Monthly		90		6/5/18	Y	6/7/18	14/06/2018			4
Site 3	Ash	Monthly		90		6/5/18	Y	6/7/18	14/06/2018			43
Site 4	Ash	Monthly		90		6/5/18	Y	6/7/18	14/06/2018			13

Blasting												
Time of Blast												
	Per Blast		5		mm/s	6/4/18	Y	12.52	6/4/18			1.03
	Per Blast		115		dB	6/4/18	Y	12.52	6/4/18			105.5
	Per Blast		5		mm/s	6/12/18	Y	14.49	6/12/18			0.55
	Per Blast		115		dB	6/12/18	Y	14.49	6/12/18			107.1
	Per Blast		5		mm/s	14/06/2018	Y	12.15	14/06/2018			0.55
	Per Blast		115		dB	14/06/2018	Y	12.15	14/06/2018			109
	Per Blast		5		mm/s	0/1/00	Y					NRR
	Per Blast		115		dB		Y					NRR
	Per Blast		5		mm/s		Y					NRR

Site: **"Johnniefields" Marulan Quarry**

Environment Protection Licence No.	1371
Site Name (As it appears on the licence)	Marulan Quarry
Site Address (As it appears on the licence)	Marulan Quarry Brayton Road MARULAN NSW 2579

Link to Licence on EPA Website

<http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32923&SYSUID=1&LICID=1371>

Blasting											Time of Blast	
Underdowns	Overpressure	Per Blast		115	dB		Y				NRR	No blasting this period.
	Vibration	Per Blast		5	mm/s		Y				NRR	
Underdowns	Overpressure	Per Blast		115	dB		Y				NRR	
	Vibration	Per Blast		5	mm/s		Y				NRR	
Underdowns	Overpressure	Per Blast		115	dB		Y				NRR	
	Vibration	Per Blast		5	mm/s		Y				NRR	
Underdowns	Overpressure	Per Blast		115	dB		Y				NRR	
	Vibration	Per Blast		5	mm/s		Y				NRR	
Underdowns	Overpressure	Per Blast		115	dB		Y				NRR	
	Vibration	Per Blast		5	mm/s		Y				NRR	

Site: Lynwood Quarry

Environment Protection Licence No.	12939
Site Name (As it appears on the licence)	Lynwood Quarry
Site Address (As it appears on the licence)	Lynwood Quarry 278 Stoney Creek Road, MARULAN NSW 2579
Link to Licence on EPA Website	http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=105521&SYSUID=1&LICID=12939

Air												
DD 5	Insoluble Solids	Monthly	0	4	mg/m2/month	14/6/18	Y	14/5/18	18/5/18		1.4	
DD 8	Insoluble Solids	Monthly	0	4	mg/m2/month	14/6/18	Y	14/5/18	18/5/19		0.4	
DD 11	Insoluble Solids	Monthly	0	4	mg/m2/month	14/6/18	Y	14/5/18	18/5/20		0.8	
DD 12	Insoluble Solids	Monthly	0	4	mg/m2/month	14/6/18	Y	14/5/18	18/5/21		0.6	
DD 13	Insoluble Solids	Monthly	0	4	mg/m2/month	14/6/18	Y	14/5/18	18/5/22		0.50	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	12/6/18	Y	14/6/18	19/6/18		22.00	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	6/6/18	Y	7/6/2018	19/6/18		5.00	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	18/6/18	Y	19/6/18	21/6/18		0.00	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	12/6/18	Y	14/6/18	19/6/18		7.40	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	6/6/18	Y	7/6/2018	19/6/18		2.00	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	18/6/18	Y	19/6/18	21/6/18		2.80	

Blasting											Time of Blast	
B1 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	0/1/00	Y	12:00:00 AM			NRR	
B2 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	0/1/00	Y	12:00:00 AM			NRR	
B3 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	0/1/00	Y	12:00:00 AM			NRR	
B3 - Resident	Overpressure	Per Blast	0	115	dB	0/1/00	Y	12:00:00 AM			NRR	
B1 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	0/1/00	Y	12:00:00 AM			NRR	
B2 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	0/1/00	Y	12:00:00 AM			NRR	
B3 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	0/1/00	Y	12:00:00 AM			NRR	
B3 - Resident	Overpressure	Per Blast	0	115	dB	0/1/00	Y	12:00:00 AM			NRR	
B1 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	0/1/00	Y	12:00:00 AM			NRR	
B2 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	0/1/00	Y	12:00:00 AM			NRR	
B3 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	0/1/00	Y	12:00:00 AM			NRR	
B3 - Resident	Overpressure	Per Blast	0	115	dB	0/1/00	Y	12:00:00 AM			NRR	
B4 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	6/7/18	Y	1:08:00 PM	6/8/18		0	
B4 - Resident	Overpressure	Per Blast	0	115	dB	6/7/18	Y	1:08:00 PM	6/8/18		0	
B5 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	6/7/18	Y	1:08:00 PM	6/8/18		0	
B5 - Resident	Overpressure	Per Blast	0	115	dB	6/7/18	Y	1:08:00 PM	6/8/18		0	
B6 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	6/7/18	Y	1:08:00 PM	6/8/18		0.57	
B6 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	6/7/18	Y	1:08:00 PM	6/8/18		0.57	

B4 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	6/12/18	Y	2:45:00 PM	6/12/18	0
B4 - Resident	Overpressure	Per Blast	0	115	dB	6/12/18	Y	2:45:00 PM	6/12/18	0
B5 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	6/12/18	Y	2:45:00 PM	6/12/18	0
B5 - Resident	Overpressure	Per Blast	0	115	dB	6/12/18	Y	2:45:00 PM	6/12/18	0
B6 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	6/12/18	Y	2:45:00 PM	6/12/18	0
B6 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	6/12/18	Y	2:45:00 PM	6/12/18	0

Site: Cooma Road Quarry

Environment Protection Licence No.	1453
Site Name (As it appears on the licence)	Cooma Road Quarry
Site Address (As it appears on the licence)	Cooma Road Quarry Cooma Road Queanbeyan NSW 2620
Link to Licence on EPA Website	http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32932&SYSUID=1&LICID=1453

Water										
Barracks Creek	pH	Monthly	6.5	8.5	pH	6/1/18	Y			7
	Total O&G	Monthly	0	10	mg/L	6/1/18	Y			<1
	Susp. Solids	Monthly	0	50	mg/L	6/1/18	Y			7

Blasting										
Time of Blast										
Heffernans House	Overpressure	Per blast	0	115	dB	6/7/18	Y	2:06:00 PM		104.7
	Vibration	Per blast	0	5	mm/s	6/7/18	Y	2:06:00 PM		3.55
Heffernans House	Overpressure	Per blast	0	115	dB	6/8/18	Y	10:14:00 AM		105.5
	Vibration	Per blast	0	5	mm/s	6/8/18	Y	10:14:00 AM		1.03
Heffernans House	Overpressure	Per blast	0	115	dB		Y			NRR
	Vibration	Per blast	0	5	mm/s		Y			NRR
Heffernans House	Overpressure	Per blast	0	115	dB		Y			NRR
	Vibration	Per blast	0	5	mm/s		Y			NRR

Site: Dubbo Quarry

Environment Protection Licence No.	2212
Site Name (As it appears on the licence)	Dubbo Quarry
Site Address (As it appears on the licence)	Sheraton Road, Dubbo, NSW,2830
Link to Licence on EPA Website	http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=42179&SYSUID=1&LICID=2212

Blasting										
Time of Blast										
WARRENS HOUSE	Overpressure	Per blast		120	dB		Y			NRR
	Vibration	Per blast		10	mm/s		Y			NRR
WARRENS HOUSE	Overpressure	Per blast		120	dB		Y			NRR
	Vibration	Per blast		10	mm/s		Y			NRR
WARRENS HOUSE	Overpressure	Per blast		120	dB		Y			NRR
	Vibration	Per blast		10	mm/s		Y			NRR
WARRENS HOUSE	Overpressure	Per blast		120	dB		Y			NRR
	Vibration	Per blast		10	mm/s		Y			NRR

Site: Dunloe Sands Quarry

Environment Protection Licence No.	13077
Site Name (As it appears on the licence)	Dunloe Sands Quarry

Site Address (As it appears on the licence)

Pottsville-Mooball Road, Mooball NSW 2483

Link to Licence on EPA Website

<http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOlicence.aspx?DOCID=134905&SYSUID=1&LICID=13077>

Water - *Frequency is as per 'Special Frequency 1' referred to in Condition M2.3 of EPL												
Silt Pond discharge monitoring point												
	Discharge pH	<24 hours prior to overflow event*	6.5	8.5	pH	0/1/00	Y				NRR	No discharge this period.
0	Discharge pH	Overflow (Day 1)*	6.5	8.5	pH	0/1/00	Y				NRR	0
0	Discharge pH	Overflow (Day 2)*	6.5	8.5	pH	0/1/00	Y				NRR	0
0	Discharge pH	Overflow (Day 3)*	6.5	8.5	pH	0/1/00	Y				NRR	0
0	Discharge pH	Overflow (Day 4)*	6.5	8.5	pH	0/1/00	Y				NRR	0
0	Discharge pH	Overflow (Day 5)*	6.5	8.5	pH	0/1/00	Y				NRR	0
0	Discharge TSS	<24 hours prior to overflow event*	0	50	mg/L	0/1/00	Y				NRR	0
0	Discharge TSS	Overflow (Day 1)*	0	50	mg/L	0/1/00	Y				NRR	0
0	Discharge TSS	Overflow (Day 2)*	0	50	mg/L	0/1/00	Y				NRR	0
0	Discharge TSS	Overflow (Day 3)*	0	50	mg/L	0/1/00	Y				NRR	0
0	Discharge TSS	Overflow (Day 4)*	0	50	mg/L	0/1/00	Y				NRR	0
0	Discharge TSS	Overflow (Day 5)*	0	50	mg/L	0/1/00	Y				NRR	0
0	Oil and Grease	<24 hours prior to overflow event*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				NRR	0
0	Oil and Grease	Overflow (Day 1)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				NRR	0
0	Oil and Grease	Overflow (Day 2)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				NRR	0
0	Oil and Grease	Overflow (Day 3)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				NRR	0
0	Oil and Grease	Overflow (Day 4)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				NRR	0
0	Oil and Grease	Overflow (Day 5)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				NRR	0
Grease Pond discharge monitoring point												
	Discharge pH	<24 hours prior to overflow event*	6.5	8.5	pH	0/1/00	Y				NRR	0
0	Discharge pH	Overflow (Day 1)*	6.5	8.5	pH	0/1/00	Y				NRR	0
0	Discharge pH	Overflow (Day 2)*	6.5	8.5	pH	0/1/00	Y				NRR	0
0	Discharge pH	Overflow (Day 3)*	6.5	8.5	pH	0/1/00	Y				NRR	0
0	Discharge pH	Overflow (Day 4)*	6.5	8.5	pH	0/1/00	Y				NRR	0
0	Discharge pH	Overflow (Day 5)*	6.5	8.5	pH	0/1/00	Y				NRR	0
0	Discharge TSS	<24 hours prior to overflow event*	0	50	mg/L	0/1/00	Y				NRR	0
0	Discharge TSS	Overflow (Day 1)*	0	50	mg/L	0/1/00	Y				NRR	0
0	Discharge TSS	Overflow (Day 2)*	0	50	mg/L	0/1/00	Y				NRR	0
0	Discharge TSS	Overflow (Day 3)*	0	50	mg/L	0/1/00	Y				NRR	0
0	Discharge TSS	Overflow (Day 4)*	0	50	mg/L	0/1/00	Y				NRR	0
0	Discharge TSS	Overflow (Day 5)*	0	50	mg/L	0/1/00	Y				NRR	0
0	Oil and Grease	<24 hours prior to overflow event*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				NRR	0
0	Oil and Grease	Overflow (Day 1)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				NRR	0
0	Oil and Grease	Overflow (Day 2)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				NRR	0
0	Oil and Grease	Overflow (Day 3)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				NRR	0
0	Oil and Grease	Overflow (Day 4)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				NRR	0
0	Oil and Grease	Overflow (Day 5)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				NRR	0
Groundwater												
0 0 0 0 0 0 0 0 0 0 0 0 0												
DLP1	Ammonia	Yearly	-	-	mg/L	0/1/00	Y			0/1/00	0/1/00	NRR 0
0	Chloride	Yearly	-	-	mg/L	0/1/00	Y			0/1/00	0/1/00	NRR 0
0	Electrical conductivity	Yearly	-	-	µm/cm	0/1/00	Y			0/1/00	0/1/00	NRR 0
0	Oil and Grease	Yearly	-	-	mg/L	0/1/00	Y			0/1/00	0/1/00	NRR 0
0	pH	Yearly	-	-	pH	0/1/00	Y			0/1/00	0/1/00	NRR 0
0	Standing Water Level	Yearly	-	-	m	0/1/00	Y			0/1/00	0/1/00	NRR 0
0	Sulfate	Yearly	-	-	mg/L	0/1/00	Y			0/1/00	0/1/00	NRR 0
DLP2	Ammonia	Yearly	-	-	mg/L	0/1/00	Y			0/1/00	0/1/00	NRR 0
0	Chloride	Yearly	-	-	mg/L	0/1/00	Y			0/1/00	0/1/00	NRR 0
0	Electrical conductivity	Yearly	-	-	µm/cm	0/1/00	Y			0/1/00	0/1/00	NRR 0
0	Oil and Grease	Yearly	-	-	mg/L	0/1/00	Y			0/1/00	0/1/00	NRR 0
0	pH	Yearly	-	-	pH	0/1/00	Y			0/1/00	0/1/00	NRR 0
0	Standing Water Level	Yearly	-	-	m	0/1/00	Y			0/1/00	0/1/00	NRR 0
0	Sulfate	Yearly	-	-	mg/L	0/1/00	Y			0/1/00	0/1/00	NRR 0
DLP3	Ammonia	Yearly	-	-	mg/L	0/1/00	Y			0/1/00	0/1/00	NRR 0
0	Chloride	Yearly	-	-	mg/L	0/1/00	Y			0/1/00	0/1/00	NRR 0

0	Electrical conductivity	Yearly	-	-	µm/cm	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Oil and Grease	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	pH	Yearly	-	-	pH	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Standing Water Level	Yearly	-	-	m	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Sulfate	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	NRR	0
DLP5	Ammonia	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Chloride	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Electrical conductivity	Yearly	-	-	µm/cm	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Oil and Grease	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	pH	Yearly	-	-	pH	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Standing Water Level	Yearly	-	-	m	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Sulfate	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	NRR	0
DLP6	Ammonia	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Chloride	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Electrical conductivity	Yearly	-	-	µm/cm	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Oil and Grease	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	pH	Yearly	-	-	pH	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Standing Water Level	Yearly	-	-	m	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Sulfate	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	NRR	0
DLP7	Ammonia	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Chloride	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Electrical conductivity	Yearly	-	-	µm/cm	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Oil and Grease	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	pH	Yearly	-	-	pH	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Standing Water Level	Yearly	-	-	m	0/1/00	Y		0/1/00	0/1/00	NRR	0
0	Sulfate	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	NRR	0

Site: Humes - Blacktown

Environment Protection Licence No.	1310
Site Name (As it appears on the licence)	Humes Blacktown
Site Address (As it appears on the licence)	Humes Blacktown Lot 1 Woodstock Ave ROOTY HILL NSW 2766
Link to Licence on EPA Website	http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOlicence.aspx?DOCID=35038&SYSUID=1&LICID=1310

Water												
Sediment Basin	TSS	Daily During Discharge		50	mg/L	6/1/18	Y					43
	pH	Daily During Discharge	6.5	8.5	pH	6/1/18	Y					8.13
Sediment Basin	TSS	Daily During Discharge		50	mg/L	6/5/18	Y					25
	pH	Daily During Discharge	6.5	8.5	pH	6/5/18	Y					8.29
Sediment Basin	TSS	Daily During Discharge		50	mg/L	6/12/18	Y					34
	pH	Daily During Discharge	6.5	8.5	pH	6/12/18	Y					8.32
Sediment Basin	TSS	Daily During Discharge		50	mg/L		Y					NRR
	pH	Daily During Discharge	6.5	8.5	pH		Y					NRR
Sediment Basin	TSS	Daily During Discharge		50	mg/L		Y					NRR
	pH	Daily During Discharge	6.5	8.5	pH		Y					NRR
Sediment Basin	TSS	Daily During Discharge		50	mg/L		Y					NRR
	pH	Daily During Discharge	6.5	8.5	pH		Y					NRR
Sediment Basin	TSS	Daily During Discharge		50	mg/L		Y					NRR
	pH	Daily During Discharge	6.5	8.5	pH		Y					NRR
Sediment Basin	TSS	Daily During Discharge		50	mg/L		Y					NRR
	pH	Daily During Discharge	6.5	8.5	pH		Y					NRR
Sediment Basin	TSS	Daily During Discharge		50	mg/L		Y					NRR
	pH	Daily During Discharge	6.5	8.5	pH		Y					NRR

Sediment Basin	TSS	Daily During Discharge		50	mg/L		Y				NRR
	pH	Daily During Discharge	6.5	8.5	pH		Y				NRR

Site: Teven Quarry

Environment Protection Licence No.	3293
Site Name (As it appears on the licence)	Readymix Teven Quarry
Site Address (As it appears on the licence)	Stokers Lane Teven NSW 2478
Link to Licence on EPA Website	http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLlicence.aspx?DOCID=85921&SYSUID=1&LICID=3293

Blasting											
											Time of Blast
ID #1	pH	Weekly	6.5	8.5	pH	6/4/18	Y				8.3
ID #1	pH	Weekly	6.5	8.5	pH	6/12/18	Y				8.3
ID #1	Oil&Grease	Yearly during discharge (August)	0	10	mg/L		Y				NRR
ID #1	TSS	Yearly during discharge (August)	0	50	mg/L		Y				NRR

Noise											
144 Stokers Lane - Murphy's Residence	dB(A) L Aeq 15 min	Not specified	0	46	dB		Y				NRR

Site: Boambee Quarry

Environment Protection Licence No.	7094
Site Name (As it appears on the licence)	Boambee Quarry
Site Address (As it appears on the licence)	Boambee Quarry North Boambee Road BOAMBE NSW 2450
Link to Licence on EPA Website	http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLlicence.aspx?DOCID=108484&SYSUID=1&LICID=7094

Blasting (M4 & L2.1 - To determine compliance with L3, measurements to be taken at any point within 1 metre of residential boundary)												
											Time of Blast	
RL65	Overpressure	Per blast	0	120	dB	13-06-18	Y	12:34:00 PM	13-06-18		97.8	Shot 193
RL 65	Vibration	Per blast	0	10	mm/s	13-06-18	Y	12:34:00 PM	13-16-18		1.63	Shot 193
	Overpressure	Per blast	0	120	dB		Y				NRR	
	Vibration	Per blast	0	10	mm/s		Y				NRR	
	Overpressure	Per blast	0	120	dB		Y				NRR	
	Vibration	Per blast	0	10	mm/s		Y				NRR	
	Overpressure	Per blast	0	120	dB		Y				NRR	
	Vibration	Per blast	0	10	mm/s		Y				NRR	

Site: Tuncurry Sand

Environment Protection Licence No.	13359
Site Name (As it appears on the licence)	Tuncurry Sand Quarry
Site Address (As it appears on the licence)	Tip Road Tuncurry NSW 2428
Link to Licence on EPA Website	http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLlicence.aspx?DOCID=47350&SYSUID=1&LICID=13359

Water											
ID#2 Surface H20 "Lake 1"	Aresnic	Quarterly	0		mg/L		Y				NRR
	Conductivity	Quarterly	0		µS/cm	6/5/18	Y	6/5/18	6/7/18		167
	Copper	Quarterly	0		mg/L		Y				NRR
	Iron	Quarterly	0		mg/L		Y				NRR
	pH	Quarterly	0		pH	6/5/18	Y	6/5/18	6/7/18		7
	Zinc	Quarterly	0		mg/L		Y				NRR
ID#3 Surface H20 "Lake 2"	Aresnic	Quarterly	0		mg/L		Y				NRR

	Conductivity	Quarterly	0		µS/cm	6/5/18	Y	6/5/18	6/7/18		245
	Copper	Quarterly	0		mg/L		Y				NRR
	Iron	Quarterly	0		mg/L		Y				NRR
	pH	Quarterly	0		pH	6/5/18	Y	6/5/18	6/7/18		7.1
	Zinc	Quarterly	0		mg/L		Y				NRR
ID#4 Surface H2O "Lake 3"	Arsenic	Quarterly	0		mg/L		Y				NRR
	Conductivity	Quarterly	0		µS/cm	6/5/18	Y	6/5/18	6/7/18		285
	Copper	Quarterly	0		mg/L		Y				NRR
	Iron	Quarterly	0		mg/L		Y				NRR
	pH	Quarterly	0		pH	6/5/18	Y	6/5/18	6/7/18		7.5
	Zinc	Quarterly	0		mg/L		Y				NRR
ID#5 Surface H2O "Lake 4"	Arsenic	Quarterly	0		mg/L		Y				NRR
	Conductivity	Quarterly	0		µS/cm	6/5/18	Y	6/5/18	6/7/18		354
	Copper	Quarterly	0		mg/L		Y				NRR
	Iron	Quarterly	0		mg/L		Y				NRR
	pH	Quarterly	0		pH	6/5/18	Y	6/5/18	6/7/18		7.5
	Zinc	Quarterly	0		mg/L		Y				NRR
Air											
ID #1	Deposited Matter	Monthly	0	4	g/m2/month	6/5/18	Y	6/5/18	14/6/2018		1.5

Site: Jandra Quarry

Environment Protection Licence No.	2796
Site Name (As it appears on the licence)	Jandra Quarry
Site Address (As it appears on the licence)	Pacific Highway Possum Brush NSW 2430
Link to Licence on EPA Website	http://app.epa.nsw.gov.au/prpoeapp/ViewPOEOLlicence.aspx?DOCID=87197&SYSUID=1&LICID=2796

Water											
ID #1	Discharge pH	Each overflow event	6.5	8.5	pH	6/6/18	Y	6/6/18	6/6/18		8.2
ID #1	Discharge TSS	2 X Daily during discharge	0	50	mg/L	6/6/18	Y	6/6/18	6/6/18		10
ID #1	Discharge TSS	2 X Daily during discharge	0	50	mg/L		Y				NRR
ID #1	Discharge Turbidity	2 X Daily during discharge	0		ntu	6/6/18	Y	6/6/18	6/6/18		18
ID #1	Discharge Turbidity	2 X Daily during discharge	0		ntu		Y				NRR
ID #1	Discharge pH	Each overflow event	6.5	8.5	pH		Y				NRR
ID #1	Discharge TSS	2 X Daily during discharge	0	50	mg/L		Y				NRR
ID #1	Discharge TSS	2 X Daily during discharge	0	50	mg/L		Y				NRR
ID #1	Discharge Turbidity	2 X Daily during discharge	0		ntu		Y				NRR
ID #1	Discharge Turbidity	2 X Daily during discharge	0		ntu		Y				NRR
ID #1	Discharge pH	Each overflow event	6.5	8.5	pH		Y				NRR
DD 1	Insoluble Solids	Monthly	0	4							
DD 2	Insoluble Solids	Monthly	0	4	mg/m2/month	6/5/18	Y	6/5/18	14/6/2018		0.3
DD 3	Insoluble Solids	Monthly	0	4	mg/m2/month	6/5/18	Y	6/5/18	14/6/2018		0.1
DD 4	Insoluble Solids	Monthly	0	4	mg/m2/month	6/5/18	Y	6/5/18	14/6/2018		0.1
HVAS 1	Insoluble Solids	Monthly	0	4	mg/m2/month	6/5/18	Y	6/5/18	14/6/2018		0.3
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3		Y				NRR
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3		Y				NRR
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3		Y				NRR
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3		Y				NRR
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3		Y				NRR
Blasting (To determine compliance with L3, measurements to be taken at any point within 1 metre of residential boundary)											
	Overpressure	Per blast	0	120	dB		Y				NRR
	Vibration	Per blast	0	10	mm/s		Y				NRR
	Overpressure	Per blast	0	120	dB		Y				NRR
	Vibration	Per blast	0	10	mm/s		Y				NRR
	Overpressure	Per blast	0	120	dB		Y				NRR
	Vibration	Per blast	0	10	mm/s		Y				NRR
	Overpressure	Per blast	0	120	dB		Y				NRR
	Vibration	Per blast	0	10	mm/s		Y				NRR

Annual Blasting Requirements (Calculated each month on a cumulative basis)										
	Overpressure	Monthly (Cumulative)	115	120	dB		Y			NRR
	Vibration	Monthly (Cumulative)	5	10	mm/s		Y			NRR