



# Attachment 4.1H - Environmental Monitoring Worksheet

Period: 1/5/2017 - 15/05/2017

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
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min max

NRR = No Result Recorded

**Site: Albion Park Quarry**

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	<a href="http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31016&amp;SYSUID=1&amp;LICID=122">http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31016&amp;SYSUID=1&amp;LICID=122</a>

**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	03/05/2017	Y				1.5	
Site 2	Ash	Monthly		90	03/05/2017	Y				0.2	
Site 3	Ash	Monthly		90	03/05/2017	Y				2	
Site 4	Ash	Monthly		90	03/05/2017	Y				0.9	

**Blasting**

		Per Blast		5	mm/s	Y				0.65	
		Per Blast		115	dB	Y				81.6	
		Per Blast		5	mm/s	Y				0.38	
		Per Blast		115	dB	Y				81.6	
		Per Blast		5	mm/s	Y				NRR	
		Per Blast		115	dB	Y				NRR	
		Per Blast		5	mm/s	Y				NRR	
		Per Blast		115	dB	Y				NRR	
		Per Blast		5	mm/s	Y				NRR	
		Per Blast		115	dB	Y				NRR	



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			min	max								

NRR = No Result Recorded

## Site: "Johniefelds" 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	<a href="http://www.environment.nsw.gov.au/prpoeapp/ViewPOEOLicence.aspx?DOCID=28960&amp;SYSUID=1&amp;LICID=1371">http://www.environment.nsw.gov.au/prpoeapp/ViewPOEOLicence.aspx?DOCID=28960&amp;SYSUID=1&amp;LICID=1371</a>

Blasting												
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
Underdowns	Overpressure	Per Blast		115	dB		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	<a href="http://www.environment.nsw.gov.au/prpoeapp/ViewPOEOLicence.aspx?DOCID=28960&amp;SYSUID=1&amp;LICID=12939">http://www.environment.nsw.gov.au/prpoeapp/ViewPOEOLicence.aspx?DOCID=28960&amp;SYSUID=1&amp;LICID=12939</a>

Air												
DD 1	Insoluble Solids	Monthly	0	4	mg/m2/month	25/5/17	Y	24/5/17	31/5/17	12/31/1899	#REF!	
DD 2	Insoluble Solids	Monthly	0	4	mg/m2/month	25/5/17	Y	24/5/17	31/5/17	12/30/1899	#REF!	
DD 3	Insoluble Solids	Monthly	0	4	mg/m2/month	25/5/17	Y	24/5/17	31/5/17	12/30/1899	#REF!	
DD 4	Insoluble Solids	Monthly	0	4	mg/m2/month	25/5/17	Y	24/5/17	31/5/17	12/30/1899	#REF!	
DD 5	Insoluble Solids	Monthly	0	4	mg/m2/month	25/5/17	Y	24/5/17	31/5/17	12/30/1899	#REF!	
							Y				#REF!	
							Y				#REF!	
							Y				#REF!	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	6/5/2017	Y	9/5/2017	12/5/2017	12/31/1899	#REF!	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	12/5/2017	Y	15/5/17	22/5/17	1/12/1900	#REF!	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	18/5/17	Y	19/5/17	23/5/17	1/12/1900	#REF!	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	6/5/2017	Y	9/5/2017	12/5/2017	1/4/1900	#REF!	



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			min	max								NRR = No Result Recorded
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	12/5/2017	Y	15/5/17	22/5/17	1/11/1900	#REF!	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	18/5/17	Y	19/5/17	23/5/17	1/8/1900	#REF!	
<b>Blasting</b>												
B3	Peak Particle Velocity	Per Blast	0	5	mm/sec	5/5/2017	Y	12/30/1899			0	
B3	Overpressure	Per Blast	0	115	dB	5/5/2017	Y	12/30/1899			0	
B3	Peak Particle Velocity	Per Blast	0	5	mm/sec	9/5/2017	Y	12/30/1899			0	
B3	Overpressure	Per Blast	0	115	dB	9/5/2017	Y	12/30/1899			0	
B3	Peak Particle Velocity	Per Blast	0	5	mm/sec	12/5/2017	Y	12/30/1899			0	
B3	Overpressure	Per Blast	0	115	dB	12/5/2017	Y	12/30/1899			0	
<b>Annual Blasting Requirements ( Calculated each month on a cumulative basis)</b>												
B3	Peak Particle Velocity	5% Total Annually	0	5	%		Y				NRR	

## 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	<a href="http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=28929&amp;SYSUID=1&amp;LICID=1453">http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=28929&amp;SYSUID=1&amp;LICID=1453</a>

<b>Water</b>											
Barracks Creek	pH	Monthly	6.5	8.5	pH	1/5/2017	Y				7.6
	Total O&G	Monthly	0	10	mg/L	1/5/2017	Y				<1
	Susp. Solids	Monthly	0	50	mg/L	1/5/2017	Y				<2
<b>Blasting</b>											
Heffernans House	Overpressure	Per blast	0	115	dB	8/5/2017	Y				95.5
	Vibration	Per blast	0	5	mm/s	8/5/2017	Y				0.68
Heffernans House	Overpressure	Per blast	0	115	dB		Y				
	Vibration	Per blast	0	5	mm/s		Y				
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



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			min	max							NRR = No Result Recorded
						Link to Licence on EPA Website	<a href="http://www.environment.nsw.gov.au/prposeapp/ViewPOEOLlicence.aspx?DOCID=29036&amp;SYSUID=1&amp;LICID=2212">http://www.environment.nsw.gov.au/prposeapp/ViewPOEOLlicence.aspx?DOCID=29036&amp;SYSUID=1&amp;LICID=2212</a>				
<b>Blasting</b>											
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: 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	<a href="http://www.environment.nsw.gov.au/prposeapp/ViewPOEOLlicence.aspx?DOCID=28958&amp;SYSUID=1&amp;LICID=1310">http://www.environment.nsw.gov.au/prposeapp/ViewPOEOLlicence.aspx?DOCID=28958&amp;SYSUID=1&amp;LICID=1310</a>

<b>Water</b>											
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	
Sediment Basin	TSS	Daily During Discharge		50	mg/L	Y				NRR	
	pH	Daily During Discharge	6.5	8.5	pH	Y				NRR	



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			min	max							NRR = No Result Recorded
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	<a href="http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=29168&amp;SYSUID=1&amp;LICID=3293">http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=29168&amp;SYSUID=1&amp;LICID=3293</a>

Blasting											
ID #1	pH	Weekly	6.5	8.5	pH	1/5/2017	Y				7.7
ID #1	pH	Weekly	6.5	8.5	pH	8/5/2017	Y				7.3
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	<a href="http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31235&amp;SYSUID=1&amp;LICID=7094">http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31235&amp;SYSUID=1&amp;LICID=7094</a>

Blasting (M4 & L2.1 - To determine compliance with L3, measurements to be taken at any point within 1 metre of residential boundary)												
	Overpressure	Per blast	0	120	dB	3/5/2007	Y	3/5/2007	3/5/2007		110.4	Shot 176
	Vibration	Per blast	0	10	mm/s	3/5/2007	Y	3/5/2007	3/5/2007		1.9	Shot 176
	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



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			min	max							NRR = No Result Recorded	
						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	<a href="http://www.environment.nsw.gov.au/prpoeapp/ViewPOEOLicence.aspx?DOCID=30945&amp;SYSUID=1&amp;LICID=13359">http://www.environment.nsw.gov.au/prpoeapp/ViewPOEOLicence.aspx?DOCID=30945&amp;SYSUID=1&amp;LICID=13359</a>					
<b>Water</b>												
ID#2 Surface H2O "Lake 1"	Aresnic	Quarterly	0	mg/L		Y				NRR		
	Conductivity	Quarterly	0	µS/cm		Y				NRR		
	Copper	Quarterly	0	mg/L		Y				NRR		
	Iron	Quarterly	0	mg/L		Y				NRR		
	pH	Quarterly	0	pH		Y				NRR		
	Zinc	Quarterly	0	mg/L		Y				NRR		
ID#3 Surface H2O "Lake 2"	Aresnic	Quarterly	0	mg/L		Y				NRR		
	Conductivity	Quarterly	0	µS/cm		Y				NRR		
	Copper	Quarterly	0	mg/L		Y				NRR		
	Iron	Quarterly	0	mg/L		Y				NRR		
	pH	Quarterly	0	pH		Y				NRR		
	Zinc	Quarterly	0	mg/L		Y				NRR		
ID#4 Surface H2O "Lake 3"	Aresnic	Quarterly	0	mg/L		Y				NRR		
	Conductivity	Quarterly	0	µS/cm		Y				NRR		
	Copper	Quarterly	0	mg/L		Y				NRR		
	Iron	Quarterly	0	mg/L		Y				NRR		
	pH	Quarterly	0	pH		Y				NRR		
	Zinc	Quarterly	0	mg/L		Y				NRR		
ID#5 Surface H2O "Lake 4"	Aresnic	Quarterly	0	mg/L		Y				NRR		
	Conductivity	Quarterly	0	µS/cm		Y				NRR		
	Copper	Quarterly	0	mg/L		Y				NRR		
	Iron	Quarterly	0	mg/L		Y				NRR		
	pH	Quarterly	0	pH		Y				NRR		
	Zinc	Quarterly	0	mg/L		Y				NRR		
<b>Air</b>												
ID #1	Deposited Matter	Monthly	0	4	g/m2/month	9/5/2017	Y	18/05/2017	18/05/2017	1.2		

Site: **Jandra Quarry**

Environment Protection Licence No.	2796
Site Name (As it appears on the licence)	Jandra Quarry



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			min	max								

NRR = No Result Recorded

Site Address (As it appears on the licence)
Link to Licence on EPA Website

Pacific Highway Possum Brush NSW 2430

<http://www.environment.nsw.gov.au/prpoeoapp/ViewPOELicence.aspx?DOCID=30958&SYSUID=1&LICID=2796>

## Water

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	
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	
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	
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	
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	
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	
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	



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			min max							NRR = No Result Recorded	
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	
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	
<b>Blasting (To determine compliance with L3, measurements to be taken at any point within 1 metre of residential boundary)</b>											
	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	
<b>Annual Blasting Requirements ( Calculated each month on a cumulative basis)</b>											
	Overpressure	Monthly (Cumulative)	115	120	dB	Y				NRR	
	Vibration	Monthly (Cumulative)	5	10	mm/s	Y				NRR	