Appendix 2

Monitoring Data and Records

(Total No. of pages including blank pages = 82)

2020-2021 Annual Return for Extractive Materials

2021 Transportation Movements

2021 Air Quality Monitoring

2021 Surface Water Monitoring

2021 Daily Rainfall Monitoring

2021 Noise Monitoring Report

Report No. 559/70

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Extractive Materials Return 2020-2021



Form S1 - Period Ending 30 June 2021

Quote RIMS ID in all correspondence

Quarry Id: 1118 Rims ID: 400066

Operators Name: METROMIX PTY LTD

Address: PO BOX 1295

PARRAMATTA NSW

2124

Email: moy@metromix.com.au
Quarry Name: TERALBA QUARRY
Quarry Address: RHONDDA RD

Inquiries please telephone: (02) 4063 6713 Completed or Nil Returns

Email – mineral.royalty@planning.nsw.gov.au

Postal Address (see below)

Please amend name, postal address and location of mine or quarry if incorrect or incomplete.

The return should be completed and forwarded to Senior Advisory Officer, RESOURCE ECONOMICS, STRATEGY, PERFORMANCE & INDUSTRY DEVELOPMENT, DEPARTMENT OF REGIONAL NSW, PO BOX 344 HUNTER REGION MAIL CENTRE NSW 2310 on or before 31 October 2021. If completion of the return is unavoidably delayed, an application for extension of time should be requested before the due date. If no work was done during the year, a NIL return must be forwarded.

The return should relate to the **above quarrying establishment** and should cover the operations of quarrying and treatment (such as crushing, screening, washing etc.) carried out at or near the quarry. A return is required even if the operations are solely of a developmental nature and whether the area being worked is held under a mining title or otherwise.

Director, Resources Policy
Please complete all the following information to assist in identifying the location of the Quarry

Typical Geology CONGLOMERATE
Nearest Town to QuarryTERALBA
Local Council NameLAKE MACQUARIE
Deposited Plan and Lot Number/s of Quarry LOTS 1 & 2 DP224037
Email Address of Operator moy@metromix.com.au
Name of Owner or LicenseeMETROMIX PTY LIMITED
Postal Address of Licensee PO BOX 1295 PARRAMATTA NSW 2124
Licence/Lease Number/s (if any) From Mining, Exploration & Geoscience (NSW Mineral Resources)N/A
From Crown Lands or other NSW DepartmentN/A
If any output was obtained from land NOT held under licence from the above Departments, state the Name/s and Address/es of the Owners of the land
To the best of my knowledge, information entered in this return is correct and no blank spaces left where figures should have been inserted.
SIGNATURE of PROPRIETOR or MANAGERDATE21/09/2021
CONTACT PERSON for this returnQUARRY MANAGER
NAME (Block letters)MUHAMMAD YUNUSA Telephone0423832077

Extractive Materials Return 2020-2021



Form S1 - Period Ending 30 June 2021

Sales During 2020-2021

Production information may be published in aggregated form for statistical reporting. However, production data for individual operations is kept strictly confidential.

Product	Description	Quantity Tonnes
<u>Virgin Materials</u> Crushed Coarse Aggregates		
Over 75mm		
Over 30mm to 75mm		
5mm to 30mm		
Under 5mm		
Natural Sand		
Manufactured Sand		
Prepared Road Base & Sub Base		162,427
Other Unprocessed Materials		
<u>Recycled Materials</u> Crushed Coarse Aggregates		
Over 75mm		
Over 30mm to 75mm		
5mm to 30mm		
Under 5mm		
Natural Sand		
Manufactured Sand		
Prepared Road Base & Sub Base		15,372
Other Unprocessed Materials		
River Gravel		
Over 30mm		
5mm to 30mm		211,992
Under 5mm		
Construction Sand	Excluding Industrial	192,536
Industrial Sand		
Foundry, Moulding		
Glass		
Other (Specify)		
Dimension Stone	Building, Ornamental, Monumental	
Quarried in Blocks		
Quarried in Slabs		
Decorative Aggregate	Including Terrazzo	
Loam	Soil for Topdressing, Garden soil, Horticultural purposes)	
TOTAL SITE PRODUCTION		582,327
Gross Value (\$) of all Sales		\$12,580,480
Type of Material		CONGLOMERATE
Number of Full-Time Equivalent (FTE) Employees	Employees: 16	Contractors: 10

Please Note: A return for clay-based products can be obtained by contacting the inquiry number.

TERALBA QUARRY Month: Jan-21

	Daily	Max Hourly	Max Hourly	Max Hourly	Max Hourly	Westwards	Eastwards
	Total	Daily	Daily	Daily	Daily	Daily	Daily
		6pm to 5am	5am to 6am	6am to 7am	7am to 6pm		
Limits	326	6	12	28	20	241	85
Actuals							
1	_	-	-	-	-	_	_
2	-	-	-	-	-	-	
3	-	-	-	-	-	-	-
4	19	-	-	2	4	6	13
5	28	-	-	6	6	17	11
6	34	-	-	3	5	23	11
7	38	-	-	4	7	20	18
8	58	1	-	7	8	32	26
9	2	-	-	-	2	1	1
10		-	-	-	-		
11	71	-	-			50	21
12	91	3	1	8	13	65	26
13	108	2	2	7	18	86	22
14	126	3	1	8	17	80	46
15	92	4	-	6	13	55	37
16	19	-	-	5	4	9	10
17		-	-	-	-		
18	139	-	3	10	19	86	53
19	99	6	1	8	18	67	32
20	120	6	1	8	20	88	32
21	113	6	-	9	16	83	30
22	119	6	1	9	17	85	34
23	30	3	-	4	8	14	16
24	-	-	-	-	-		
25	33	1	3	3	6	20	13
26	-	-	-	-	-		
27	141	1	-	9	19	92	49
28	35	3	-	5	6	25	10
29	39	5	-	6	9	20	19
30	8	-	-	-	5	1	7
31		-	-	_			

1562 1025 537

Table 2A: Number of Laden Trucks - 6:00pm to 5:00am

TERALBA QUARRY Month: Jan-21

Total 66 1 3 4		6		Max Hourly
- - - - - - 1 - - - 3	- - - - - - 1 - - 3	- - - - - - 1 - - - 3		
- - - - - - 1 - - - 3	- - - - - - 1 - - 3	- - - - - - 1 - - - 3		
- - - - - 1 - - - 3	- - - - - 1 - - - 3			- - - - - - - -
- - - - - 1 - - - 3	- - - - - 1 - - - 3			- - - - - - - -
- - - - 1 - - - 3	- - - - 1 - - - 3	- - - - 1 - - - 3		
- - - - 1 - - - 3	- - - 1 - - 3	- - - - 1 - - - 3		
- - - 1 - - - 3	- - - 1 - - - 3	- - - 1 - - - 3		
- - 1 - - - 3	- - 1 - - - 3	- - 1 - - - 3		
- 1 - - - 3	- 1 - - 3	- 1 - - - 3	-	-
1 - - - 3	1 - - 3	1 - - 3	-	
- - - 3	- - - 3	- - - 3	-	-
- - 3	- - 3	- - 3	-	-
3	- 3	- 3	-	-
3	3	3		
			_	_
4	4			ı
		2	-	-
3	3	3	-	-
4	4	4	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
6	6	6	-	-
7	7	6	-	-
7	7	6	-	-
7	7	6	-	-
6	6	3	-	-
-	-	-	-	-
1	1	1	-	-
-	-	-	-	-
2	2	1	-	-
4	4	3	-	-
6	6	5	-	-
	_	-	-	-
-				_
	- 1 - 2 4 6	- 1 1 1 - 2 2 4 4 6 6		

Table 2B: Number of Laden Trucks - 5:00am to 6:00am

TERALBA QUARRY Jan-21 Month: Westwards **Eastwards Max Hourly Max Hourly** Limits* Actuals ---

^{*} Condition 2 (9)

Table 2C: Number of Laden Trucks - 6:00am to 7:00am

TERALBA QUARRY Jan-21 Month: Westwards** Eastwards** Max Hourly **Max Hourly** Limits* Actuals

^{*} Condition 2 (9)

^{**} Combined Maximum hourly No. of laden trucks = 28

Table 2D: Number of Laden Trucks - 7:00am to 6pm

TERALBA QUARRY Month: Jan-21

	Daily	We	stwards	Ea	Eastwards		
	Total	Daily	Max Hourly	Daily	Max Hourly		
Limits	305	220	20	85	8		
Actuals							
1	-	-	-	-	-		
2	-	-	-	-	-		
3	-	-	-	-	-		
4	17	4	1	13	3		
5	22	13	3	9	3		
6	31	21	5	10	3		
7	34	18	5	16	4		
8	50	25	5	25	5		
9	2	1	1	1	1		
10	-	-	-	-	-		
11	61	41	9	20	4		
12	79	54	11	25	6		
13	95	73	14	22	4		
14	114	69	11	45	7		
15	82	47	7	35	7		
16	14	6	3	8	3		
17		-	-	-	-		
18	126	74	12	52	8		
19	84	52	11	32	7		
20	104	73	14	31	6		
21	97	69	12	28	5		
22	102	69	11	33	6		
23	20	8	3	12	5		
24	-	_	-	-	_		
25	26	14	4	12	4		
26	-	-	-	-	-		
27	130	82	15	48	8		
28	26	17	5	9	3		
29	27	10	3	17	8		
30	8	1	1	7	5		
31	-	-	-	-	_		

^{**} PLEASE NOTE: The Hilighted Max Hourly Movements Do Not Relate To Same One Hour Period

MONTHLY TRANSPORT TONNAGES TERALBA QUARRY Number of Tonnes							
Routes		1		2		3/4.	
01-January-2021		_		-	•	-	
02-January-2021		-		-		-	
03-January-2021		-		-		-	
04-January-2021		117.68		112.04		167.64	
05-January-2021		157.14		391.34		180.18	
06-January-2021		390.08		337.04		202.70	
07-January-2021		220.70		206.82		336.96	
08-January-2021		484.16		281.76		392.26	
09-January-2021		0.00		40.04		33.20	
10-January-2021		-		-		-	
11-January-2021		653.50		517.94		424.04	
12-January-2021		1242.48		542.20		520.16	
13-January-2021		1234.86		1165.60		469.36	
14-January-2021		1182.18		666.36		737.30	
15-January-2021		615.32		934.22		502.48	
16-January-2021		173.46		110.78		158.04	
17-January-2021		-		-		-	
18-January-2021		1548.44		885.60		911.58	
19-January-2021		1103.08		662.08		638.30	
20-January-2021		1375.48		943.28		860.48	
21-January-2021		977.22		909.28		622.28	
22-January-2021		1024.60		1001.30		718.26	
23-January-2021		275.20		104.22		245.50	
24-January-2021		-		-		-	
25-January-2021		360.66		226.98		353.14	
26-January-2021		-		-		-	
27-January-2021		963.72		1212.44		1023.96	
28-January-2021		304.44		241.22		248.72	
29-January-2021		316.94		215.86		338.82	
30-January-2021		12.92		0.00		97.94	
31-January-2021		-		-		-	
Tetala		44704.00		44700 40		40400.00	
Totals		14734.26		11708.40		10183.30	

1 - Northwest

2 - Southwest

3 - Eastward

36625.96

TERALBA QUARRY	Month:	Feb-21
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	Daily	Max Hourly	Max Hourly	Max Hourly	Max Hourly	Westwards	Eastwards
	Total	Daily	Daily	Daily	Daily	Daily	Daily
Limits	326	6pm to 5am	5am to 6am	6am to 7am 28	7am to 6pm 20	241	85
	320	-	12		20	241	00
Actuals							
1	59	4	-	7	9	28	31
2	75	5	-	10	15	46	29
3	92	5	-	7	15	69	23
4	146	2	1	11	20	102	44
5	123	3	-	15	15	84	39
6	35	3	-	3	9	19	16
7	-		-	-	-		
8	114	-	4	8	19	69	45
9	151	3	-	9	20	94	57
10	128	3	-	8	20	80	48
11	160	4	-	9	20	101	59
12	134	4	-	9	18	80	54
13	6		-	4	2	6	0
14			-	-	-		
15	133	5	-	11	20	81	52
16	52	4	-	8	8	25	27
17	87	4	-	11	11	59	28
18	102	4	-	7	17	66	36
19	52	5	-	6	8	31	21
20	2		-	1	1	2	0
21	-		-	-	-		
22	94	5	-	7	16	49	45
23	108	4	-	14	13	81	27
24	90	4	-	6	13	64	26
25	86	5	-	10	14	52	34
26	97	4	-	9	15	57	40
27	12	4	-	4	3	8	4
28			-	-	-		

2138 1353 785

Table 2A: Number of Laden Trucks - 6:00pm to 5:00am

TERALBA QUARRY Month: Feb-21

	Daily	We	stwards	E	astwards
	Total	Daily	Max Hourly	Daily	Max Hourly
Limits	66	66	6	0	0
Actuals					
1	5	5	4	-	-
2	5	5	5	-	-
3	6	6	5	-	-
4	2	2	2	-	-
5	4	4	3		-
6	4	4	3	_	-
7		-	-	-	-
8	-	-	-	-	-
9	4	4	3	-	-
10	4	4	3	-	-
11	5	5	4	-	-
12	5	5	4	-	-
13		-	-	-	-
14		-	-	-	-
15	5	5	5	-	-
16	4	4	4	-	-
17	5	5	4	-	-
18	5	5	4	-	_
19	6	6	5	-	-
20	-	-	-	-	-
21	-	-	-	-	-
22	5	5	5	-	_
23	4	4	4	_	_
24	4	4	4	_	_
25	5	5	5	-	-
26	4	4	4	-	_
27	4	4	4	-	_
28	-	_	-	_	_
_,			†	-	_
			†	-	_
			†	_	_
			†		

TERALBA QUARRY Feb-21 Month: Westwards **Eastwards Max Hourly Max Hourly** Limits* Actuals ----

^{*} Condition 2 (9)

TERALBA QUARRY Feb-21 Month: Westwards** Eastwards** Max Hourly **Max Hourly** Limits* Actuals

^{*} Condition 2 (9)

^{**} Combined Maximum hourly No. of laden trucks = 28

Table 2D: Number of Laden Trucks - 7:00am to 6pm

TERALBA QUARRY	Month:	Feb-21

	Daily		estwards	Eastwards		
	Total	Daily	Max Hourly	Daily	Max Hourly	
Limits	305	220	20	85	8	
Limito			1 20		 	
Actuals						
1	47	17	3	30	6	
2	60	31	8	29	7	
3	79	56	11	23	6	
4	132	91	15	41	6	
5	104	68	13	36	8	
6	28	13	4	15	5	
7	-	-	-	-	-	
8	102	59	11	43	8	
9	138	83	14	55	8	
10	116	69	12	47	8	
11	146	88	13	58	8	
12	120	69	14	51	8	
13	2	2	2	-	-	
14		-	-	-	-	
15	117	67	14	50	8	
16	40	15	4	25	7	
17	71	44	7	27	6	
18	90	55	12	35	8	
19	40	21	6	19	4	
20	1	1	1	-	-	
21	-	-	-	-	-	
22	82	38	9	44	7	
23	90	65	10	25	4	
24	80	54	12	26	5	
25	71	41	9	30	7	
26	84	48	11	36	8	
27	4	-	-	4	3	
28	-	-	-	-	-	

^{**} PLEASE NOTE: The Hilighted Max Hourly Movements Do Not Relate To Same One Hour Period

MONTHLY TRANSPORT TONNAGES TERALBA QUARRY Number of Tonnes							
Routes		1		2		3/4.	
01-February-2021		221.34		470.70		477.90	
02-February-2021		636.50		483.78		493.66	
03-February-2021		841.78		756.26		425.32	
04-February-2021		1377.02		1273.10		815.86	
05-February-2021		1293.16		828.14		603.84	
06-February-2021		226.66		275.36		518.88	
07-February-2021		-		-		-	
08-February-2021		848.38		946.96		1132.42	
09-February-2021		1116.56		1305.74		1400.82	
10-February-2021		1106.74		849.40		722.46	
11-February-2021		2080.80		763.06		1397.86	
12-February-2021		1433.78		887.28		1360.16	
13-February-2021		230.82		0.00		0.00	
14-February-2021		-		-		-	
15-February-2021		1248.14		895.00		1099.48	
16-February-2021		210.80		247.46		420.26	
17-February-2021		393.26		780.60		635.84	
18-February-2021		364.58		989.28		676.54	
19-February-2021		99.96		514.42		485.62	
20-February-2021		0.00		27.42		0.00	
21-February-2021		-		-		-	
22-February-2021		443.16		618.38		1198.84	
23-February-2021		599.34		1340.86		465.18	
24-February-2021		698.56		825.34		475.08	
25-February-2021		539.80		692.70		782.80	
26-February-2021		885.00		678.94		832.00	
27-February-2021		106.68		103.50		64.56	
28-February-2021		-		-		-	
Totals		17002.82		16553.68		16485.38	

1 - Northwest

2 - Southwest

3 - Eastward

50041.88

TERALBA QUARRY	Month:	Mar-21
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	Daily	Max Hourly	Max Hourly	Max Hourly	Max Hourly	Westwards	Eastward
	Total	Daily	Daily	Daily	Daily	Daily	Daily
Limits	326	6pm to 5am	5am to 6am 12	6am to 7am 28	7am to 6pm 20	241	85
	920			20		271	- 55
Actuals							
1	97	1	2	9	16	62	35
2	103	5	-	10	16	55	48
3	115	6	-	8	16	72	43
4	114	5	1	6	15	64	50
5	127	5	-	18	15	68	59
6	14	4	-	2	3	12	2
7	-		-	-	-		
8	108		6	13	14	74	34
9	112	5	-	13	14	87	25
10	110	6	1	8	14	61	49
11	109	6	-	11	14	72	37
12	99	5	-	11	16	70	29
13	15	_	-	3	5	11	4
14			-	-			_
15	62	_	6	4	13	45	17
16	119	6	-	11	15	68	51
17	83	6	-	3	12	56	27
18	39	5	1	7	5	37	2
19	35	3	-	5	7	27	8
20	_	-	i	-	-	_	-
21		-	-	-			
22	30	1	-	8	6	26	4
23	6	-	-	1	2	5	1
24	39	-	1	4	6	27	12
25	79	2	-	7	13	57	22
26	105	6	1	8	12	71	34
27	12	-	-	2	5	9	3
28				-	-		
29	132	6	-	10	16	79	53
30	150	6	-	12	20	101	49
31	183	6	-	14	20	147	36

2197 1463 734

Table 2A: Number of Laden Trucks - 6:00pm to 5:00am

TERALBA QUARRY Month: Mar-21

	Daily	We	estwards	E	astwards
	Total	Daily	Max Hourly	Daily	Max Hourly
Limits	66	66	6	0	0
Actuals					
1	1	1	1	_	-
2	6	6	5	<u> </u>	-
3	7	7	6	_	-
4	6	6	5	-	-
5	6	6	5	-	-
6	5	5	4	-	-
7	-	-	-	-	-
8	-	-	-	-	-
9	6	6	5	-	-
10	7	7	6	-	-
11	7	7	6	-	-
12	7	7	5	-	-
13		-	-	-	-
14	-	<u> </u>	-	1 -	-
15	-	-	-	-	-
16	7	7	6	-	-
17	8	8	6	-	-
18	6	6	5	-	-
19	3	3	3	1 -	-
20	-	-	-	1 -	-
21	-	<u> </u>	-	1 -	-
22	1	1	1	-	-
23	-	-	-	-	-
24	-	-	-	-	-
25	3	3	2	-	-
26	7	7	6	-	-
27	-	-	-	-	-
28	-	-	-	_	-
29	6	6	6	_	-
30	7	7	6	_	-
31	7	7	6	-	-

Table 2B: Number of Laden Trucks - 5:00am to 6:00am

Mar-21 TERALBA QUARRY Month: Westwards **Eastwards Max Hourly Max Hourly** Limits* Actuals _ ----

^{*} Condition 2 (9)

TERALBA QUARRY Mar-21 Month: Westwards** Eastwards** Max Hourly **Max Hourly** Limits* Actuals

^{*} Condition 2 (9)

^{**} Combined Maximum hourly No. of laden trucks = 28

Table 2D: Number of Laden Trucks - 7:00am to 6pm

TERALBA QUARRY Month: Mar-21

	Daily	We	estwards	Ea	stwards
	Total	Daily	Max Hourly	Daily	Max Hourly
Limits	305	220	20	85	8
Actuals					
1	85	51	10	34	8
2	87	39	9	48	7
3	100	57	10	43	7
4	99	52	8	47	8
5	103	52	8	51	8
6	7	5	3	2	1
7	-	-	-	-	_
8	89	56	10	33	6
9	93	69	11	24	4
10	94	46	8	48	8
11	91	55	10	36	8
12	81	54	9	27	7
13	12	9	5	3	1
14	-	_	-	-	-
15	52	35	7	17	6
16	101	54	8	47	8
17	72	45	8	27	6
18	25	23	5	2	1
19	27	19	5	8	3
20	-	-	-	-	_
21	-	-	-	-	-
22	21	17	5	4	2
23	5	4	2	1	1
24	34	22	5	12	3
25	69	47	10	22	6
26	89	56	9	33	6
27	10	8	3	2	1
28	-	_	-	-	-
29	116	64	11	52	8
30	131	86	13	45	7
31	162	128	18	34	8
					-

^{**} PLEASE NOTE: The Hilighted Max Hourly Movements Do Not Relate To Same One Hour Period

MONT	THL'	Y TRANSP	OR	T TONNA	GES	3
TERALBA QUA	ARR	Υ		Number	of T	onnes
Routes		1		2		3/4.
01-March-2021		554.74		991.40		638.84
02-March-2021		828.98		602.22		780.88
03-March-2021		1148.68		628.76		889.52
04-March-2021		740.02		763.50		1087.90
05-March-2021		927.98		602.12		1440.70
06-March-2021		141.64		214.60		31.14
07-March-2021		-		-		-
08-March-2021		985.26		772.56		909.96
09-March-2021		1021.90		1242.98		498.20
10-March-2021		825.46		670.54		1045.16
11-March-2021		918.12		826.80		632.10
12-March-2021		877.86		722.02		624.06
13-March-2021		153.16		0.00		55.92
14-March-2021		-		-		-
15-March-2021		587.86		614.12		357.36
16-March-2021		808.70		721.64		875.64
17-March-2021		308.44		967.86		532.44
18-March-2021		31.50		919.06		13.66
19-March-2021		66.08		701.94		219.12
20-March-2021		0.00		0.00		0.00
21-March-2021		-		-		-
22-March-2021		0.00		813.98		114.68
23-March-2021		71.84		50.38		15.98
24-March-2021		367.96		284.72		228.52
25-March-2021		428.00		751.86		411.58
26-March-2021		709.84		1095.30		493.56
27-March-2021		182.74		64.92		47.56
28-March-2021		-		-		-
29-March-2021		1388.84		661.28		906.40
30-March-2021		1204.12		1601.60		1012.92
31-March-2021		2066.66		2298.78		564.76
Totals		17346.38		19584.94		14428.56

1 - Northwest

2 - Southwest

3 - Eastward

51359.88

TERALBA QUARRY Month: Apr-21

	Daily	Max Hourly	Max Hourly	Max Hourly	Max Hourly	Westwards	Eastwards
	Total	Daily	Daily	Daily	Daily	Daily	Daily
Limits	326	6pm to 5am	5am to 6am	6am to 7am 28	7am to 6pm 20	241	85
	326	-	12	20	20	241	05
Actuals							
1	142	5	-	17	19	96	46
2	-		-	-	-	-	-
3			-	-	-	-	-
4	<u> </u>		-	-		-	-
5	<u> </u>		-	-	-	-	-
6	98	3	-	7	13	71	27
7	87	4	-	10	14	50	37
8	101	6	-	14	14	58	43
9	120	6	-	14	15	64	56
10	28	5	-	5	7	22	6
11	<u> </u>		-	-		-	-
12	112	1	1	9	15	71	41
13	172	5	1	17	20	119	53
14	162	4	2	17	20	100	62
15	207	3	2	27	20	142	65
16	149	4	-	14	20	100	49
17	20	4	-	4	3	20	-
18	<u> </u>		-	-		-	-
19	88	1	1	10	15	69	19
20	142	6	-	12	18	102	40
21	155	4	-	9	19	105	50
22	127	4	2	7	17	83	44
23	121	3	1	13	16	76	45
24	32	4	-	11	5	32	-
25	-	-	-	-	-	-	-
26	118	1	5	9	15	73	45
27	158	4	-	13	20	108	50
28	214	5	-	28	20	140	74
29	163	5	1	16	20	134	29
30	129	5	-	14	18	104	25
			I	I			

2845 1939 906

Table 2A: Number of Laden Trucks - 6:00pm to 5:00am

TERALBA QUARRY Month: Apr-21

	Daily	We	stwards		astwards
	Total	Daily	Max Hourly	Daily	Max Hourly
Limits	66	66	6	0	0
Actuals					
1	5	5	5		-
2		-	-	-	-
3	-	-	-	-	-
4	-		-		-
5	-	-	-	-	-
6	4	4	3	-	-
7	5	5	4	-	-
8	7	7	6	-	-
9	7	7	6	-	-
10	6	6	5	-	-
11	-	-	-	-	-
12	1	1	1	-	-
13	5	5	5	-	-
14	4	4	4	-	-
15	6	6	3	-	-
16	7	7	4	-	-
17	6	6	4	-	-
18	-	-	-	-	-
19	1	1	1	-	-
20	7	7	6	-	-
21	5	5	4	-	-
22	6	6	4	-	-
23	5	5	3	-	-
24	5	5	4	-	-
25	-	-	-	-	-
26	1	1	1	-	-
27	6	6	4	-	-
28	7	7	5	-	-
29	6	6	5	-	-
30	7	7	6	-	-
				-	-

Table 2B: Number of Laden Trucks - 5:00am to 6:00am

Apr-21 TERALBA QUARRY Month: Westwards **Eastwards Max Hourly Max Hourly** Limits* Actuals ----

^{*} Condition 2 (9)

Apr-21 TERALBA QUARRY Month: Westwards** Eastwards** Max Hourly **Max Hourly** Limits* Actuals

^{*} Condition 2 (9)

^{**} Combined Maximum hourly No. of laden trucks = 28

Table 2D: Number of Laden Trucks - 7:00am to 6pm

TERALBA QUARRY Month: Apr-21

	Daily	We	estwards	Ea	stwards
	Total	Daily	Max Hourly	Daily	Max Hourly
Limits	305	220	20	85	8
Actuals					
1	120	79	13	41	6
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
5	-	-	-	-	-
6	87	60	9	27	6
7	72	36	10	36	6
8	80	42	8	38	8
9	99	47	11	52	7
10	17	12	5	5	2
11	-	_	-	-	-
12	101	61	12	40	6
13	149	98	14	51	8
14	139	81	13	58	8
15	172	115	15	57	8
16	128	84	17	44	8
17	10	10	3	-	-
18	-	-	-	-	_
19	76	57	11	19	4
20	123	84	16	39	7
21	141	91	15	50	8
22	112	68	12	44	8
23	102	59	12	43	8
24	16	16	5	-	_
25	_	_	-	-	_
26	103	58	10	45	7
27	139	94	15	45	7
28	179	113	20	66	8
29	140	114	16	26	5
30	108	83	15	25	6

^{**} PLEASE NOTE: The Hilighted Max Hourly Movements Do Not Relate To Same One Hour Period

MONT	HL'	Y TRANSP	OR	T TONNA	GES	3
TERALBA QUA	۱RR	Υ		Number	of T	onnes
Routes		1		2		3/4.
01-April-2021]	1097.54		1619.14		694.52
02-April-2021		-		-		•
03-April-2021		-		-		•
04-April-2021		-		-		•
05-April-2021		-		-		•
06-April-2021		1049.86		1000.44		410.56
07-April-2021		704.38		608.34		602.48
08-April-2021		670.12		752.80		586.38
09-April-2021		1139.36		643.54		1189.02
10-April-2021		162.76		506.10		101.78
11-April-2021		-		-		-
12-April-2021		683.36		1282.86		784.54
13-April-2021		1435.82		1704.68		729.82
14-April-2021		1130.82		1194.90		928.64
15-April-2021		1769.38		1666.10		1115.60
16-April-2021		887.04		1799.86		869.76
17-April-2021		225.12		364.04		0.00
18-April-2021		-		-		-
19-April-2021		727.50		1354.80		440.30
20-April-2021		718.30		1904.14		861.30
21-April-2021		1161.98		1496.42		905.56
22-April-2021		470.78		1625.64		824.22
23-April-2021		849.84		1081.56		1021.88
24-April-2021		285.28		516.28		0.00
25-April-2021		-		-		-
26-April-2021		901.26		1299.20		887.96
27-April-2021		1184.08		1477.06		866.68
28-April-2021		1672.98		1866.90		1898.20
29-April-2021		1527.14		2119.96		442.00
30-April-2021		1068.00		1845.14		492.64
Totals		21522.70		29729.90		16653.84

1 - Northwest

2 - Southwest

3 - Eastward

67906.44

TERALBA QUARRY Month: May-21

	Daily	Max Hourly	Max Hourly	Max Hourly	Max Hourly	Westwards	Eastwards
	Total	Daily	Daily	Daily	Daily	Daily	Daily
Limits	326	6pm to 5am	5am to 6am 12	6am to 7am 28	7am to 6pm 20	241	85
	323			20		277	
Actuals							
1	25	3	-	5	7	21	4
2			-	-		-	
3	103	1	4	8	16	87	16
4	124	5	1	11	15	98	26
5	115	5	-	6	18	63	52
6	50	2	-	5	8	21	29
7	76	5	-	4	11	27	49
8	10	1	1	2	4	4	6
9	-		-	-	-	-	
10	131	5	1	9	19	77	54
11	129	4	1	12	18	79	50
12	150	4	-	17	19	129	21
13	151	3	1	13	18	94	57
14	135	6	-	9	19	86	49
15	22	1	3	7	3	22	-
16	-	-	-	-	-	-	
17	191	2	1	9	20	116	75
18	155	2	-	12	19	97	58
19	184	3	-	14	20	117	67
20	208	3	-	19	20	137	71
21	156	5	1	12	20	98	58
22	54	2	-	8	10	20	34
23		<u> </u>	-	-		-	<u> </u>
24	100	2	3	7	14	67	33
25	116	5	2	9	18	84	32
26	123	4	2	8	18	97	26
27	137	6	-	10	20	99	38
28	145	5	-	10	20	109	36
29	13	3	-	3	3	10	3
30	<u> </u>	-	-	-	-	-	-
31	123	2	3	7	17	97	26

2926 1956 970

Table 2A: Number of Laden Trucks - 6:00pm to 5:00am

TERALBA QUARRY Month: May-21

	Daily		stwards		twards
	Total	Daily	Max Hourly	Daily	Max Hourly
Limits	66	66	6	0	0
Actuals					
1	5	5	3	-	-
2	-	-	-	-	-
3	1	1	1	-	-
4	6	6	5	-	-
5	7	7	5	-	-
6	3	3	2	-	-
7	6	6	5	-	-
8	1	1	1	-	-
9	-	-	-	-	-
10	5	5	5	-	-
11	5	5	4	-	-
12	5	5	4	-	-
13	5	5	3	-	-
14	7	7	6	-	-
15	2	2	1	-	-
16	-	-	-	-	-
17	2	2	2	-	-
18	4	4	2	-	-
19	6	6	3	-	-
20	4	4	3	-	-
21	6	6	5	-	-
22	4	4	2	-	-
23	-	-	-	-	-
24	2	2	2	-	-
25	6	6	5	-	-
26	6	6	4	-	-
27	7	7	6	-	-
28	6	6	5	-	-
29	4	4	3	-	-
30	-	-	-	-	-
31	2	2	2	-	-

Table 2B: Number of Laden Trucks - 5:00am to 6:00am

May-21 TERALBA QUARRY Month: Westwards **Eastwards Max Hourly Max Hourly** Limits* **Actuals** ---

^{*} Condition 2 (9)

Table 2C: Number of Laden Trucks - 6:00am to 7:00am

May-21 TERALBA QUARRY Month: Westwards** Eastwards** Max Hourly **Max Hourly** Limits* Actuals

^{*} Condition 2 (9)

^{**} Combined Maximum hourly No. of laden trucks = 28

Table 2D: Number of Laden Trucks - 7:00am to 6pm

TERALBA QUARRY Month: May-21

	Daily	We	estwards	Ea	stwards
	Total	Daily	Max Hourly	Daily	Max Hourly
Limits	305	220	20	85	8
Actuals					
1	15	11	5	4	2
2	-	-	-	-	-
3	90	75	12	15	3
4	105	80	13	25	4
5	102	51	10	51	8
6	42	15	3	27	5
7	66	19	3	47	8
8	6	-	-	6	4
9	-	-	-	-	-
10	116	62	11	54	8
11	111	64	11	47	8
12	128	108	17	20	4
13	132	77	11	55	8
14	119	71	15	48	8
15	10	10	3	-	-
16	-	-	-	-	-
17	179	106	14	73	8
18	139	82	13	57	8
19	164	100	14	64	8
20	185	117	14	68	8
21	137	83	13	54	8
22	42	10	3	32	8
23	-	-	-	-	-
24	88	55	10	33	5
25	99	69	11	30	7
26	107	83	15	24	5
27	120	85	17	35	7
28	129	93	17	36	8
29	6	4	3	2	2
30	-	-	-	-	-
31	111	85	14	26	6

^{**} PLEASE NOTE: The Hilighted Max Hourly Movements Do Not Relate To Same One Hour Period

MONTHLY TRANSPORT TONNAGES TERALBA QUARRY Number of Tonnes							
Routes		1		2		3/4.	
01-May-2021		275.68		378.18		57.96	
02-May-2021		-		-		-	
03-May-2021		590.40		1691.20		403.66	
04-May-2021		906.92		1674.88		507.70	
05-May-2021		833.16		714.02		725.00	
06-May-2021		213.18		188.58		456.24	
07-May-2021		87.16		454.34		653.48	
08-May-2021		0.00		103.74		118.70	
09-May-2021		-		-		-	
10-May-2021		1057.10		1096.58		965.92	
11-May-2021		714.56		1475.02		1151.78	
12-May-2021		1170.82		2075.34		509.52	
13-May-2021		965.24		1641.32		1650.42	
14-May-2021		876.80		1360.90		1302.16	
15-May-2021		323.20		222.86		0.00	
16-May-2021		•		•		•	
17-May-2021		1391.78		1344.50		1617.68	
18-May-2021		1570.98		1079.28		1048.60	
19-May-2021		1278.58		1275.54		1345.90	
20-May-2021		1735.86		1576.12		1606.54	
21-May-2021		871.44		1282.00		1093.34	
22-May-2021		211.70		323.84		566.38	
23-May-2021				1		•	
24-May-2021		999.90		785.90		543.84	
25-May-2021		618.36		1336.16		600.70	
26-May-2021		1108.22		1117.72		441.04	
27-May-2021		914.22		1364.80		665.22	
28-May-2021		1995.72		1087.32		537.92	
29-May-2021		117.22		209.98		91.66	
30-May-2021		-				•	
31-May-2021		1219.90		1383.16		573.66	
Totala		22040 40		27242.00		40225.00	
Totals		22048.10		27243.28		19235.02	

1 - Northwest

2 - Southwest

3 - Eastward

68526.40

TERALBA QUARRY Month: Jun-21

	Daily	Max Hourly	Max Hourly	Max Hourly	Max Hourly	Westwards	Eastward
	Total	Daily	Daily	Daily	Daily	Daily	Daily
Limits	326	6pm to 5am	5am to 6am 12	6am to 7am 28	7am to 6pm 20	241	85
	323			20		271	- 50
Actuals							
1	149	5	-	13	20	97	52
2	178	4	1	12	20	124	54
3	170	5	-	19	20	118	52
4	72	5	-	7	11	54	18
5	15	2	-	3	3	12	3
6	-	-	-	-	-	-	
7	155	2	-	11	19	95	60
8	167	4	-	14	20	116	51
9	145	4	1	12	19	105	40
10	124	5	-	13	16	107	17
11	137	4	-	10	20	114	23
12	17	2	-	5	5	17	0
13	-	-	-	-		_	
14	_	-	-	-		_	
15	106	2	1	12	14	75	31
16	174	4	-	16	20	141	33
17	160	6		13	19	133	27
18	168	5	-	15	20	126	42
19	24	5	1	6	5	23	1
20	-	-			-		
21	128	-	6	11	18	83	45
22	118	4	1	13	16	84	34
23	139	6	1	14	17	96	43
24	136	6	-	17	19	96	40
25	141	5	-	15	19	120	21
26	30	2	-	8	6	30	0
27	-	-	-	-	-	-	-
28	124	2	1	11	17	96	28
29	154	4	-	8	20	98	56
30	172	4	-	15	20	115	57
				-	-	-	

3103 2275 828

Table 2A: Number of Laden Trucks - 6:00pm to 5:00am

TERALBA QUARRY Month: Jun-21

	Daily	We	estwards	Eastwards		
	Total	Daily	Max Hourly	Daily	Max Hourly	
Limits	66	66	6	0	0	
Lillits	- 00					
Actuals						
1	6	6	5	-	-	
2	5	5	4	-	-	
3	6	6	5	-	-	
4	6	6	5	-	-	
5	4	4	2	-	-	
6	-	_	-	-	-	
7	2	2	2	-	-	
8	6	6	4	-	-	
9	6	6	4	-	-	
10	7	7	5	-	-	
11	5	5	4	-	-	
12	2	2	2	-	-	
13	-	-	-	-	-	
14	-	-	-	-	-	
15	2	2	2	-	-	
16	5	5	4	-	-	
17	8	8	6	-	-	
18	6	6	5	-	-	
19	6	6	5	-	-	
20	-	-	-	-	-	
21	-	-	-	-	-	
22	7	7	4	-	-	
23	7	7	6	-	-	
24	7	7	6	-	-	
25	6	6	5	-	-	
26	2	2	2	-	-	
27	-	-	-	-	-	
28	2	2	2	-	-	
29	4	4	4	-	-	
30	4	4	4	-	-	
				-	-	

Table 2B: Number of Laden Trucks - 5:00am to 6:00am

Jun-21 TERALBA QUARRY Month: Westwards **Eastwards Max Hourly Max Hourly** Limits* Actuals _ ---

^{*} Condition 2 (9)

TERALBA QUARRY Jun-21 Month: Westwards** Eastwards** Max Hourly **Max Hourly** Limits* Actuals

^{*} Condition 2 (9)

^{**} Combined Maximum hourly No. of laden trucks = 28

Table 2D: Number of Laden Trucks - 7:00am to 6pm

TERALBA QUARRY Month: Jun-21

	Daily	We	estwards	Ea	stwards
	Total	Daily	Max Hourly	Daily	Max Hourly
Limits	305	220	20	85	8
Actuals					
1	130	80	13	50	8
2	160	107	16	53	8
3	145	98	17	47	8
4	59	41	10	18	4
5	8	5	1	3	2
6	-	-	-	-	-
7	142	84	13	58	7
8	147	100	14	47	7
9	126	90	15	36	7
10	104	90	16	14	6
11	122	100	18	22	5
12	10	10	5	0	-
13	-	_	- 1	-	-
14	-	-	-	-	-
15	91	61	12	30	5
16	153	120	17	33	5
17	139	112	18	27	5
18	147	109	16	38	6
19	11	10	4	1	1
20	-	-	-	-	-
21	111	67	10	44	8
22	98	64	12	34	6
23	117	74	12	43	8
24	112	72	15	40	8
25	120	100	17	20	3
26	20	20	6	0	0
27	-	-	-	-	-
28	110	85	14	25	8
29	142	88	15	54	8
30	153	99	14	54	8

^{**} PLEASE NOTE: The Hilighted Max Hourly Movements Do Not Relate To Same One Hour Period

MONT TERALBA QUA	Y TRANSP	OR	T TONNA Number		
TENALDA QUA	 . •		Number	<u> </u>	
Routes	1		2		3/4.
01-June-2021	1171.36		1315.92		786.44
02-June-2021	1005.92		2057.88		1508.72
03-June-2021	1260.78		1575.78		1277.40
04-June-2021	499.72		722.78		371.02
05-June-2021	196.60		172.06		98.66
06-June-2021	-		-		-
07-June-2021	1144.86		1480.42		1116.64
08-June-2021	1177.52		2108.30		783.68
09-June-2021	713.88		2122.78		625.04
10-June-2021	1378.88		1559.42		406.72
11-June-2021	1587.18		1681.44		370.88
12-June-2021	304.14		143.42		0.00
13-June-2021	-		-		-
14-June-2021	-		-		-
15-June-2021	1254.18		834.14		632.16
16-June-2021	3149.52		931.82		648.88
17-June-2021	2475.70		1181.20		677.70
18-June-2021	2000.28		1305.50		886.80
19-June-2021	475.02		98.74		32.34
20-June-2021	-		-		-
21-June-2021	1236.04		1152.92		916.50
22-June-2021	1443.24		966.76		711.40
23-June-2021	1763.82		881.02		864.92
24-June-2021	1702.34		707.28		861.98
25-June-2021	1126.04		1636.28		368.10
26-June-2021	386.10		645.74		0.00
27-June-2021	-		-		-
28-June-2021	684.12		1365.12		719.08
29-June-2021	487.96		1664.90		970.54
30-June-2021	924.64		1349.10		1024.84
Totals	29549.84		29660.72		16660.44

^{1 -} Northwest

^{2 -} Southwest

^{3 -} Eastward

TERALBA QUARRY Month: Jul-21

	Daily	Max Hourly	Max Hourly	Max Hourly	Max Hourly	Westwards	Eastwards
	Total	Daily	Daily	Daily	Daily	Daily	Daily
Limits	326	6pm to 5am	5am to 6am 12	6am to 7am 28	7am to 6pm 20	241	85
	920			20		271	
Actuals							
1	120	6	0	6	17	69	51
2	108	5	0	7	16	66	42
3	29	2	1	8	6	21	8
4			-	-	-	-	
5	174	2	2	17	20	104	70
6	113	5	0	10	19	66	47
7	142	4	0	16	18	107	35
8	126	4	1	15	17	86	40
9	70	5	0	5	12	50	20
10	4	1	0	1	2	4	0
11			-	-	-	-	
12	77	2	1	5	12	52	25
13	99	2	0	9	15	54	45
14	88	2	0	10	12	60	28
15	125	3	1	10	20	85	40
16	80	0	0	8	13	56	24
17	38	1	0	6	10	33	5
18		-	-	-		_	
19	113	0	0	6	15	59	54
20	126	0	0	8	20	80	46
21	138	4	1	12	16	92	46
22	161	4	0	11	20	127	34
23	121	4	0	10	17	71	50
24	31	0	0	6	6	16	15
25				-	-		
26	82	4	0	8	12	63	19
27	106	2	0	11	13	64	42
28	121	0	0	8	16	58	63
29	110	1	0	9	17	56	54
30	126	3	0	13	17	84	42
31	28	5	0	6	6	25	3

2656 1708 948

Table 2A: Number of Laden Trucks - 6:00pm to 5:00am

TERALBA QUARRY Month: Jul-21

	Daily	We	estwards	Ea	stwards
	Total	Daily	Max Hourly	Daily	Max Hourly
Limits	66	66	6	0	0
Limits	00	- 66	+ 6		<u> </u>
Actuals					
1	7	7	6	-	-
2	6	6	5	-	-
3	3	3	2		-
4		-	-	-	-
5	2	2	2	-	-
6	6	6	5	-	-
7	5	5	4	-	-
8	6	6	4	-	-
9	6	6	5	-	-
10	1	1	1	-	-
11	- 1	-	-	-	-
12	2	2	2	-	-
13	2	2	2	-	-
14	2	2	2	-	-
15	4	4	3	-	-
16	0	0	0	-	-
17	2	2	1	-	-
18	-	-	-	-	-
19	0	0	0	-	-
20	0	0	0	-	-
21	4	4	4	-	-
22	4	4	4	-	-
23	4	4	4	-	-
24	0	0	0	-	-
25	-	-	-	-	-
26	4	4	4	-	-
27	2	2	2	-	-
28	0	0	0	-	-
29	1	1	1	-	-
30	3	3	3	-	-
31	6	6	5	-	-
			1		1

TERALBA QUARRY Jul-21 Month: Westwards **Eastwards Max Hourly Max Hourly** Limits* Actuals ---

^{*} Condition 2 (9)

TERALBA QUARRY Jul-21 Month: Westwards** Eastwards** Max Hourly **Max Hourly** Limits* Actuals

^{*} Condition 2 (9)

^{**} Combined Maximum hourly No. of laden trucks = 28

Table 2D: Number of Laden Trucks - 7:00am to 6pm

TERALBA QUARRY Month: Jul-21

	Daily	We	stwards	Ea	stwards
	Total	Daily	Max Hourly	Daily	Max Hourly
Limits	305	220	20	85	8
Actuals					
1	107	57	10	50	8
2	95	53	9	42	7
3	17	10	5	7	3
4	-	_	-	-	_
5	153	87	13	66	8
6	97	52	11	45	8
7	121	89	14	32	8
8	104	65	14	39	8
9	59	39	7	20	8
10	2	2	1	0	0
11	-	-	-	-	-
12	69	44	9	25	5
13	88	46	8	42	7
14	76	49	10	27	5
15	110	71	14	39	7
16	72	48	11	24	6
17	30	25	9	5	1
18	-	-	-	-	-
19	107	55	11	52	8
20	118	72	13	46	7
21	121	78	11	43	8
22	146	113	16	33	8
23	107	60	10	47	8
24	25	13	4	12	4
25	-	-	-	-	-
26	70	51	9	19	4
27	93	52	9	41	6
28	113	51	8	62	8
29	100	47	9	53	8
30	110	71	11	39	8
31	16	13	6	3	2

^{**} PLEASE NOTE: The Hilighted Max Hourly Movements Do Not Relate To Same One Hour Period

MONT TERALBA QUA	 Y TRANSP Y	OR	T TONNA Number	
,				
Routes	1		2	3/4.
01-July-2021	664.68		1109.74	920.56
02-July-2021	473.04		1113.02	714.08
03-July-2021	459.56		204.56	109.48
04-July-2021	-		-	-
05-July-2021	1176.10		1568.10	901.74
06-July-2021	909.06		916.54	818.52
07-July-2021	1630.42		1478.54	729.76
08-July-2021	1046.12		1481.64	824.62
09-July-2021	494.58		786.34	385.88
10-July-2021	0.00		114.86	0.00
11-July-2021	-		-	-
12-July-2021	809.74		560.04	388.78
13-July-2021	610.72		807.20	824.36
14-July-2021	187.10		1371.50	572.90
15-July-2021	791.72		1181.22	719.38
16-July-2021	570.46		912.30	423.80
17-July-2021	245.46		684.22	104.54
18-July-2021	-		-	-
19-July-2021	1062.60		534.48	1109.32
20-July-2021	1120.88		809.20	1024.76
21-July-2021	1777.94		531.68	945.88
22-July-2021	1374.52		1932.62	800.96
23-July-2021	823.78		1150.74	1262.68
24-July-2021	547.14		34.04	367.72
25-July-2021	-		-	-
26-July-2021	1366.72		479.88	377.44
27-July-2021	750.90		916.32	1059.26
28-July-2021	922.72		585.02	1398.28
29-July-2021	827.88		837.82	1160.14
30-July-2021	952.26		1470.88	1105.84
31-July-2021	397.00		429.76	76.26
Totals	21993.10		24002.26	19126.94

^{1 -} Northwest

65122.30

^{2 -} Southwest

^{3 -} Eastward

TERALBA QUARRY Month: Aug-21

	Daily	Max Hourly	Max Hourly	Max Hourly		Westwards	Eastward
	Total	Daily	Daily	Daily	Daily	Daily	Daily
Limits	326	6pm to 5am	5am to 6am	6am to 7am 28	7am to 6pm 20	241	85
	320		12	20	20	241	- 55
Actuals							
1	-		-	-	-	-	_
2	127	1	3	8	16	71	56
3	176	2	1	9	20	131	45
4	185	4	0	19	19	164	21
5	96	2	0	16	12	70	26
6	105	4	0	13	15	91	14
7	17	0	1	6	4	15	2
8	-		-	-	-	-	
9	69	3	0	14	9	52	17
10	98	3	0	14	14	59	39
11	90	3	0	15	13	49	41
12	94	3	0	11	12	82	12
13	112	3	0	13	13	101	11
14	42	2	3	10	10	36	6
15	-	-	-	-	-	-	-
16	155	0	4	13	20	132	23
17	121	3	1	10	16	99	22
18	81	3	0	9	14	56	25
19	119	4	0	16	17	70	49
20	109	5	0	15	15	97	12
21	35	4	0	9	8	28	7
22			-	-	-		
23	85	1	3	12	15	59	26
24	40	5	0	11	5	36	4
25	72	4	0	9	11	45	27
26	97	3	0	14	12	60	37
27	95	2	0	13	14	89	6
28	34	6	1	7	8	31	3
29	-	-	-	_	-	-	-
30	103	0	5	9	16	87	16
31	125	4	0	13	16	89	36

2482 1899 583

Table 2A: Number of Laden Trucks - 6:00pm to 5:00am

TERALBA QUARRY Month: Aug-21

		Daily		stwards			twards
		Total	Daily	Max Hourly		Daily	Max Hourly
Limits	-	66	66	6	-	0	0
Actuals							
1	F	-	-	-	-	-	-
2		1	1	1		-	-
3		3	3	2		-	-
4		4	4	4		-	-
5		3	3	2		-	-
6		3	3	3		-	-
7		0	0	0		-	-
8		-	-	-		-	-
9		3	3	3		-	-
10		4	4	3		-	-
11		4	4	4		-	-
12		4	4	3		-	-
13		4	4	3		-	_
14		3	3	3	Ī	-	-
15		-	-	-		-	-
16		0	0	0		-	-
17		4	4	3		-	-
18		4	4	3		-	-
19		5	5	4	Ī	-	-
20		6	6	5	Ī	-	-
21		4	4	4		-	-
22		-	-	-		-	-
23		1	1	1		-	-
24		6	6	5		-	-
25		5	5	4		-	-
26		3	3	3	Ī	-	-
27		2	2	2		-	-
28		7	7	6		-	-
29		-	-	_		-	-
30		0	0	0		-	-
31		5	5	4		-	-
			-				

Table 2B: Number of Laden Trucks - 5:00am to 6:00am

Aug-21 TERALBA QUARRY Month: Westwards **Eastwards Max Hourly Max Hourly** Limits* Actuals --

^{*} Condition 2 (9)

Table 2C: Number of Laden Trucks - 6:00am to 7:00am

Aug-21 TERALBA QUARRY Month: Westwards** Eastwards** Max Hourly **Max Hourly** Limits* Actuals

^{*} Condition 2 (9)

^{**} Combined Maximum hourly No. of laden trucks = 28

Table 2D: Number of Laden Trucks - 7:00am to 6pm

TERALBA QUARRY Month: Aug-21

	Daily	We	estwards	Ea	stwards
	Total	Daily	Max Hourly	Daily	Max Hourly
Limits	305	220	20	85	8
Actuals					
1	-	-	-		-
2	15	60	10	55	8
3	163	121	18	42	8
4	161	141	18	20	4
5	77	53	8	24	5
6	89	76	13	13	5
7	10	8	3	2	2
8	-	-		-	-
9	52	36	6	16	3
10	80	45	8	35	7
11	71	37	10	34	6
12	79	68	11	11	3
13	95	86	13	9	3
14	26	21	8	5	2
15	-	-	-	-	-
16	138	116	17	22	5
17	106	85	13	21	5
18	68	45	8	23	6
19	98	52	9	46	8
20	88	78	12	10	3
21	22	16	5	6	3
22	-	-	-	-	-
23	69	44	10	25	6
24	23	19	4	4	2
25	58	32	6	26	6
26	80	46	9	34	6
27	80	74	14	6	2
28	19	16	6	3	2
29	-	-	-	-	-
30	89	74	14	15	4
31	107	72	14	35	7

^{**} PLEASE NOTE: The Hilighted Max Hourly Movements Do Not Relate To Same One Hour Period

MONT TERALBA QUA	 Y TRANSP Y	OR	T TONNA Number	
Routes	1		2	3/4.
01-August-2021	-		-	-
02-August-2021	894.60		1111.30	1401.74
03-August-2021	1570.68		1775.50	1165.68
04-August-2021	2488.46		1408.20	575.34
05-August-2021	543.46		1130.36	615.34
06-August-2021	1022.58		1533.42	305.58
07-August-2021	356.36		116.76	48.90
08-August-2021	-		-	-
09-August-2021	417.22		972.30	451.16
10-August-2021	645.36		827.08	724.86
11-August-2021	834.74		607.10	857.92
12-August-2021	962.00		1256.64	218.92
13-August-2021	926.56		1367.16	216.32
14-August-2021	445.18		700.36	84.02
15-August-2021	•		•	-
16-August-2021	2365.50		1514.40	509.26
17-August-2021	2209.08		642.74	551.76
18-August-2021	760.62		880.32	674.36
19-August-2021	614.96		1146.52	916.80
20-August-2021	1117.84		1369.20	335.68
21-August-2021	524.94		403.18	100.80
22-August-2021	1		•	•
23-August-2021	698.32		1013.90	467.36
24-August-2021	438.58		473.54	103.56
25-August-2021	642.76		540.10	456.74
26-August-2021	575.86		962.70	580.28
27-August-2021	1322.72		875.50	114.10
28-August-2021	268.18		608.26	47.28
29-August-2021	-		-	•
30-August-2021	527.38		1637.16	298.08
31-August-2021	821.88		1441.72	643.02
Totals	23995.82		26315.42	12464.86

^{1 -} Northwest

^{2 -} Southwest

^{3 -} Eastward

TERALBA QUARRY Month: Dec-21

Company Comp		Daily	Max Hourly	Max Hourly	Max Hourly	Max Hourly	Westwards	Eastwards
Actuals 326 6 12 28 20 241 85 1 128 5 0 12 19 82 46 2 187 4 0 19 20 88 56 4 36 2 0 8 8 22 14 5 . <td< th=""><th></th><th></th><th>Daily</th><th>Daily</th><th>Daily</th><th>Daily</th><th></th><th></th></td<>			Daily	Daily	Daily	Daily		
Actuals 1	Limita	226					244	95
1 128 5 0 12 19 82 46 2 187 4 0 19 20 116 71 3 144 6 0 19 20 88 56 4 36 2 0 8 8 22 14 5 - - - - - - - 6 127 2 5 11 18 87 40 7 119 4 0 17 14 89 30 8 112 5 0 13 13 96 26 9 135 3 0 13 13 96 26 3 0 9 20 98 52 11 54 3 0 9 9 43 11 12 - - - - - - - 13 121 2 1 13 15 100 21 14 115 4 0 17 15 92 23 14 115 4 0 19 17 15 <th></th> <th>326</th> <th>6</th> <th>12</th> <th>28</th> <th>20</th> <th>241</th> <th>85</th>		326	6	12	28	20	241	85
2 187 4 0 19 20 116 71 3 144 36 0 19 20 88 56 4 36 2 0 8 8 22 14 5 - - - - - - 6 127 2 5 11 18 87 40 7 119 4 0 17 14 89 30 8 112 5 0 13 13 98 26 9 135 3 0 13 19 72 63 10 54 0 9 20 98 52 11 54 0 9 9 98 52 13 121 1 13 15 100 21 14 115 4 0 17 16 92 23 15 120 4 0 19 15 77 43 16 153 5 0 19 17 105 48 19 <t< th=""><th>Actuals</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Actuals							
3 144 6 0 19 20 88 56 4 36 2 0 8 8 22 14 5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	1	128	5	0	12	19	82	46
4 36 2 0 8 8 22 14 5 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	2	187	4	0	19	20	116	71
5 .	3	144	6	0	19	20	88	56
6 127 2 5 11 18 87 40 7 119 4 0 17 14 89 30 8 112 5 0 13 13 86 26 9 135 3 0 13 19 72 63 10 150 4 0 9 20 98 52 11 54 3 0 9 9 43 11 12 - - - - - - - 13 121 2 1 13 15 100 21 14 115 4 0 17 15 92 23 15 120 4 0 19 17 105 48 17 136 4 0 20 19 103 33 18 65 2 3 <t< td=""><td>4</td><td>36</td><td>2</td><td>0</td><td>8</td><td>8</td><td>22</td><td>14</td></t<>	4	36	2	0	8	8	22	14
7 1119 4 0 17 14 89 30 8 112 5 0 13 13 86 26 9 135 3 0 13 19 72 63 10 150 4 0 9 20 98 52 11 54 3 0 9 9 43 11 12 - - - - - - 13 121 2 1 13 15 100 21 14 115 4 0 17 15 92 23 15 120 4 0 19 17 105 48 17 136 4 0 20 19 103 33 18 65 2 3 14 14 39 26 19 - - - - - - - - 20 130 6 1 16 <t< td=""><td>5</td><td><u> </u></td><td></td><td>-</td><td>-</td><td>-</td><td><u> </u></td><td>-</td></t<>	5	<u> </u>		-	-	-	<u> </u>	-
8 112 5 0 13 13 86 26 9 135 3 0 13 19 72 63 10 150 4 0 9 20 98 52 11 54 3 0 9 9 43 11 12 - - - - - 13 121 2 1 13 15 100 21 14 115 4 0 17 15 92 23 15 120 4 0 19 17 105 48 17 136 4 0 20 19 103 33 18 65 2 3 14 14 39 26 19 - - - - - - - 20 130 0 6 10 16 100 30 21 121 6 1 16 16 79 42 22 98 6 0 18 12 78 20 23 37 6 1 8 6	6	127	2	5	11	18	87	40
9	7	119	4	0	17	14	89	30
10 150 4 0 9 20 98 52 11 54 3 0 9 9 43 11 12 - - - - - - 13 121 2 1 13 15 100 21 14 115 4 0 17 15 92 23 15 120 4 0 19 15 77 43 16 153 5 0 19 17 105 48 17 136 4 0 20 19 103 33 18 65 2 3 14 14 39 26 19 - - - - - - 20 130 0 6 10 16 100 30 21 121 6 1 16 16 79 42 22 98 6 0 18 12 78 20 23 37 6 1 8 6 35 2 24 15 5 0 7 1 <	8	112	5	0	13	13	86	26
11 54 3 0 9 9 43 11 12 - - - - - - - 13 121 2 1 13 15 100 21 14 115 4 0 17 15 92 23 15 120 4 0 19 15 77 43 16 153 5 0 19 17 105 48 17 136 4 0 20 19 103 33 18 65 2 3 14 14 39 26 19 - - - - - - - 20 130 0 6 10 16 100 30 42 21 121 6 1 16 16 79 42 42 22 98 6 0 18 12 78 20 23 37 6	9	135	3	0	13	19	72	63
12 - </td <td>10</td> <td>150</td> <td>4</td> <td>0</td> <td>9</td> <td>20</td> <td>98</td> <td>52</td>	10	150	4	0	9	20	98	52
13 121 2 1 13 15 100 21 14 115 4 0 17 15 92 23 15 120 4 0 19 15 77 43 16 153 5 0 19 17 105 48 17 136 4 0 20 19 103 33 18 65 2 3 14 14 39 26 19 - - - - - - 20 130 0 6 10 16 100 30 21 121 6 1 16 16 79 42 22 98 6 0 18 12 78 20 23 37 6 1 8 6 35 2 24 15 5 0 7 1 14 1 25 - - - - - - 26 - - - - - - 28 - - - - - - <t< td=""><td>11</td><td>54</td><td>3</td><td>0</td><td>9</td><td>9</td><td>43</td><td>11</td></t<>	11	54	3	0	9	9	43	11
14 115 4 0 17 15 92 23 15 120 4 0 19 15 77 43 16 153 5 0 19 17 105 48 17 136 4 0 20 19 103 33 18 65 2 3 14 14 39 26 19 - - - - - - 20 130 0 6 10 16 100 30 21 121 6 1 16 16 79 42 22 98 6 0 18 12 78 20 23 37 6 1 8 6 35 2 24 15 5 0 7 1 14 1 25 - - - - - - 26 - - - - - - 28 - - - - - - 29 - - - - - - -	12	<u> </u>		-	-	-	-	
15 120 4 0 19 15 77 43 16 153 5 0 19 17 105 48 17 136 4 0 20 19 103 33 18 65 2 3 14 14 39 26 19 - - - - - - 20 130 0 6 10 16 100 30 21 121 6 1 16 16 79 42 22 98 6 0 18 12 78 20 23 37 6 1 8 6 35 2 24 15 5 0 7 1 14 1 25 - - - - - - 26 - - - - - - 27 - - - - - - 28 - - - - - - - 29 - - - - - - - -	13	121	2	1	13	15	100	21
16 153 5 0 19 17 105 48 17 136 4 0 20 19 103 33 18 65 2 3 14 14 39 26 19 - - - - - - 20 130 0 6 10 16 100 30 21 121 6 1 16 16 79 42 22 98 6 0 18 12 78 20 23 37 6 1 8 6 35 2 24 15 5 0 7 1 14 1 25 - - - - - - 26 - - - - - - 27 - - - - - - 28 - - - - - - 29 - - - - - - 30 - - - - - - - - - -	14	115	4	0	17	15	92	23
17 136 4 0 20 19 103 33 18 65 2 3 14 14 39 26 19 - - - - - - 20 130 0 6 10 16 100 30 21 121 6 1 16 16 79 42 22 98 6 0 18 12 78 20 23 37 6 1 8 6 35 2 24 15 5 0 7 1 14 1 25 - - - - - - 26 - - - - - - 27 - - - - - - 28 - - - - - - 30 - - - - - - 29 - - - - - - 30 - - - - - -	15	120	4	0	19	15	77	43
18 65 2 3 14 14 39 26 19 - - - - - 20 130 0 6 10 16 100 30 21 121 6 1 16 16 79 42 22 98 6 0 18 12 78 20 23 37 6 1 8 6 35 2 24 15 5 0 7 1 14 1 25 - - - - - - 26 - - - - - 27 - - - - - 28 - - - - - 30 - - - - -	16	153	5	0	19	17	105	48
19 - </td <td>17</td> <td>136</td> <td>4</td> <td>0</td> <td>20</td> <td>19</td> <td>103</td> <td>33</td>	17	136	4	0	20	19	103	33
20 130 0 6 10 16 100 30 21 121 6 1 16 16 79 42 22 98 6 0 18 12 78 20 23 37 6 1 8 6 35 2 24 15 5 0 7 1 14 1 25 - - - - - 26 - - - - - 27 - - - - - 28 - - - - - 29 - - - - - 30 - - - - -	18	65	2	3	14	14	39	26
21 121 6 1 16 16 79 42 22 98 6 0 18 12 78 20 23 37 6 1 8 6 35 2 24 15 5 0 7 1 14 1 25 - - - - - - 26 - - - - - 27 - - - - - 28 - - - - - 29 - - - - - 30 - - - - -	19	-	<u> </u>	-	-	-		-
22 98 6 0 18 12 78 20 23 37 6 1 8 6 35 2 24 15 5 0 7 1 14 1 25 - - - - - 26 - - - - - 27 - - - - - 28 - - - - - 29 - - - - - 30 - - - - -	20	130	0	6	10	16	100	30
23 37 6 1 8 6 35 2 24 15 5 0 7 1 14 1 25 - - - - - 26 - - - - - 27 - - - - - 28 - - - - - 29 - - - - - 30 - - - - -	21	121	6	1	16	16	79	42
24 15 5 0 7 1 14 1 25 - - - - - 26 - - - - - 27 - - - - - 28 - - - - - 29 - - - - - 30 - - - - -	22	98	6	0	18	12	78	20
25 26 27 28 29 30	23	37	6	1	8	6	35	2
26 - - - - - - 27 - - - - - 28 - - - - - 29 - - - - - 30 - - - - -	24	15	5	0	7	1	14	1
27 28 29 30	25	-	<u> </u>	-	-	-	-	-
28 29 30 	26	-	<u> </u>	-	-	-	-	-
29	27	-	<u> </u>	-	-	-	-	-
30	28	-	<u> </u>	-	-	-	-	-
	29	-	<u> </u>	-	-	-	-	-
31	30	-	<u> </u>	-	-	-	-	-
	31	-	<u> </u>	-	-	-		-

2303 1605 698

Table 2A: Number of Laden Trucks - 6:00pm to 5:00am

TERALBA QUARRY Month: Dec-21

	Daily	We	estwards	Ea	stwards
	Total	Daily	Max Hourly	Daily	Max Hourly
Limits	66	66	6	0	0
Limits	00	86	1 6	- 0	<u> </u>
Actuals					
1	6	6	5	-	-
2	5	5	4		-
3	6	6	6	-	-
4	3	3	2	-	-
5	_	-	-	-	-
6	2	2	2	-	-
7	5	5	4	-	-
8	6	6	5	-	-
9	4	4	3	-	-
10	4	4	4	-	-
11	4	4	3	-	-
12	-	-	-	-	-
13	2	2	2	-	-
14	5	5	4	-	-
15	5	5	4	-	-
16	5	5	5	-	-
17	4	4	4	-	-
18	3	3	2	-	-
19	-	-	-	-	-
20	0	0	0	-	-
21	6	6	6	-	-
22	6	6	6	-	-
23	6	6	6	-	-
24	5	5	5	-	-
25	-	-	-	-	-
26	-	-	-	_	-
27	-	-	-	-	-
28	-	-	-	-	-
29	-	-	-	-	-
30		-	-	-	-
31		-	_	-	-
			†		1

Table 2B: Number of Laden Trucks - 5:00am to 6:00am

Dec-21 TERALBA QUARRY Month: Westwards **Eastwards Max Hourly Max Hourly** Limits* Actuals ----

^{*} Condition 2 (9)

Table 2C: Number of Laden Trucks - 6:00am to 7:00am

TERALBA QUARRY Dec-21 Month: Westwards** Eastwards** Max Hourly **Max Hourly** Limits* Actuals

^{*} Condition 2 (9)

^{**} Combined Maximum hourly No. of laden trucks = 28

Table 2D: Number of Laden Trucks - 7:00am to 6pm

TERALBA QUARRY Month: Dec-21

	Daily	We	estwards	Ea	astwards
	Total	Daily	Max Hourly	Daily	Max Hourly
Limits	305	220	20	85	8
Lillius	303	220	20	85	0
Actuals					
1	110	67	13	43	7
2	163	97	13	66	8
3	119	70	12	49	8
4	25	11	5	14	6
5	-	-	-	-	-
6	109	70	11	39	7
7	97	69	11	28	8
8	93	69	11	24	5
9	118	61	11	57	8
10	137	90	13	47	8
11	41	30	9	11	3
12	-	_	-	_	_
13	105	84	13	21	5
14	93	73	10	20	7
15	96	58	9	38	6
16	129	86	11	43	8
17	112	80	13	32	6
18	45	23	8	22	6
19	-	-	-	-	-
20	114	88	13	26	4
21	98	59	13	39	8
22	74	57	9	17	3
23	22	20	6	2	2
24	3	3	1	0	0
25	-	-	-	-	-
26		-	-	-	-
27		-	-	-	-
28	-	-	-	-	-
29		-	-	-	-
30	-	-	-	-	-
31	-	-	-	-	-

^{**} PLEASE NOTE: The Hilighted Max Hourly Movements Do Not Relate To Same One Hour Period

MONT TERALBA QUA		Y TRANSP	OR	T TONNA Number		
TENALDA QUA	11/1/	. •		Number	<u> </u>	Offices
Routes		1		2		3/4.
01-December-2021		985.56		759.44		873.84
02-December-2021		1647.08		1376.94		1677.02
03-December-2021		1103.88		1413.96		1487.40
04-December-2021		192.88		419.06		359.38
05-December-2021		-		-		-
06-December-2021		1429.22		1090.30		852.94
07-December-2021		660.88		1716.44		679.24
08-December-2021		1177.94		1003.72		324.36
09-December-2021		1015.12		825.20		1434.46
10-December-2021		2140.68		551.14		844.28
11-December-2021		855.36		484.64		197.02
12-December-2021				-		-
13-December-2021		1570.66		1215.94		430.40
14-December-2021		1524.90		1072.28		334.56
15-December-2021		1266.84		937.54		930.50
16-December-2021		1355.48		1533.84		1233.98
17-December-2021		1849.40		1076.40		650.92
18-December-2021		629.44		693.90		619.06
19-December-2021		-		-		-
20-December-2021		1892.08		1086.60		741.64
21-December-2021		1553.62		875.82		1093.92
22-December-2021		1365.24		890.72		500.66
23-December-2021		323.12		550.78		64.50
24-December-2021		0.00		420.88		39.72
25-December-2021				-		-
26-December-2021		-				-
27-December-2021		-		-		-
28-December-2021		-		-		-
29-December-2021		-		•		•
30-December-2021		-		-		-
31-December-2021		-		-		-
—		0.4800.00		1000= = 1		45000.00
Totals		24539.38		19995.54		15369.80

1 - Northwest

2 - Southwest

3 - Eastward

59904.72

Deposited Dust - Year to Date

	Rho	ondda Road		My	rtle Street		Hills	ide Crescent		Roo	dgers Street		Y	ork Street	
	Total			Total			Total			Total			Total		
	Insoluble	Ash		Insoluble	Ash		Insoluble	Ash		Insoluble	Ash		Insoluble	Ash	
	Solids	Fraction	% Ash	Solids	Fraction	% Ash	Solids	Fraction	% Ash	Solids	Fraction	% Ash	Solids	Fraction	% Ash
Units	g/m²/month	g/m ² /month		g/m²/month	g/m ² /month		g/m ² /month	g/m ² /month		g/m ² /month	g/m²/month		g/m²/month	g/m²/month	
EPA Approved Level	4.0			4.0			4.0			4.0			4.0		
December 2021	0.7	0.4	57	1.0	0.5	50	0.7	0.3	43	0.7	0.4	57	1.2	0.7	58
February	0.3	0.2	67	0.4	0.2	50	0.4	0.2	50	0.5	0.3	60	0.4	0.4	100
March	0.6	0.2	33	0.5	0.2	40	0.8	0.2	25	0.5	0.2	40	0.9	0.5	56
April	0.3	0.2	67	0.2	0.1	50	0.4	0.1	25	0.2	0.2	100	0.4	0.3	75
May	0.3	0.1	33	0.4	0.3	75	0.4	0.2	50	0.2	0.1	50	0.8	0.6	75
June	0.4	0.2	50	0.3	0.2	67	0.1	0.1	100	0.2	0.2	100	0.5	0.4	80
July	1.8	0.7	39	0.5	0.3	60	0.1	0.1	100	0.7	0.4	57	0.7	0.4	57
August	0.9	0.6	67	1.0	0.7	70	0.1	0.1	100	0.6	0.5	83	0.4	0.3	75
September	1.2	0.7	58	0.9	0.4	44	0.1	0.1	100	0.6	0.3	50	0.6	0.4	67
October	1.9	0.8	42	2.0	0.7	35	0.7	0.4	57	1.0	0.5	50	1.8	0.9	50
November	0.8	0.3	38	1.4	0.8	57	0.2	0.1	50	1.4	0.8	57	1.1	0.5	45
December	8.0	0.4	50	0.5	0.3	60	1.1	0.4	36	0.4	0.4	100	1.2	0.7	58
Annual Average	0.8	0.4	50.1	0.8	0.4	54.8	0.4	0.2	61.3	0.6	0.4	67.0	0.8	0.5	66.4
Annual Maximum	1.9	0.8	67.0	2.0	0.8	75.0	1.1	0.4	100.0	1.4	0.8	100.0	1.8	0.9	100.0
Annual Minimum	0.3	0.1	33.0	0.2	0.1	35.0	0.1	0.1	25.0	0.2	0.1	40.0	0.4	0.3	45.0

Particulate Matter (PM₁₀) - Year to Date

		Monthly Average	Year to Date	24-Hr Criteria	
Date	PM ₁₀ (μg/m ³)	(μg/m³)	Average (µg/m³)	(µg/m³)	Comments
3/01/2021	10		10.0	50	
9/01/2021	5		7.5	50	
15/01/2021	37		17.3	50	
December 2021	18		17.5	50	
27/01/2021	20	18.0	18.0	50	
2/02/2021	11		16.8	50	
8/02/2021	6		15.2	50	
14/02/2021	12		14.8	50	
20/02/2021	7		14.0	50	
26/02/2021	14	10.0	14.0	50	
4/03/2021	9		13.5	50	
10/03/2021	14		13.6	50	
16/03/2021	8		13.1	50	
22/03/2021	6	0.0	12.6	50	
28/03/2021	8 5	9.0	12.3 11.9	50	
3/04/2021				50	
9/04/2021	10		11.7 12.0	50 50	
15/04/2021 21/04/2021	17 14		12.0	50 50	
	10	11.1	12.1	50 50	
27/04/2021	11	11.1	12.0	50 50	
3/05/2021 9/05/2021	10		11.9	50 50	
15/05/2021	8		11.7	50 50	
21/05/2021	10		11.7	50	
27/05/2021	2	8.0	11.2	50	
2/06/2021	15	0.0	11.4	50	
8/06/2021	12		11.4	50	
14/06/2021	6		11.2	50	
20/06/2021	12		11.2	50	
26/06/2021	2	9.2	10.9	50	
2/07/2021	9		10.8	50	
8/07/2021	6		10.7	50	
14/07/2021	8		10.6	50	
20/07/2021	6		10.5	50	
26/07/2021	9	7.5	10.4	50	
1/08/2021	35		11.1	50	
7/08/2021	10		11.1	50	
13/08/2021	12		11.1	50	
19/08/2021	18		11.3	50	
25/08/2021	3		11.0	50	
31/08/2021	13	15.1	11.1	50	
6/09/2021	8		11.0	50	
12/09/2021	24		11.3	50	
18/09/2021	14		11.4	50	
24/09/2021	16		11.5	50	
30/09/2021	8	13.9	11.4	50	
6/10/2021	16	·	11.5	50	
12/10/2021	7		11.4	50	
18/10/2021	15		11.4	50	
24/10/2021	13		11.5	50	
30/10/2021	16	13.3	11.6	50	
5/11/2021	9		11.5	50	
11/11/2021	10		11.5	50	
17/11/2021	10		11.5	50	
23/11/2021	6		11.4	50	
29/11/2021	17	10.6	11.5	50	
5/12/2021	12		11.5	50	
11/12/2021	9		11.5	50	
17/12/2021	12		11.5	50	
23/12/2021	13	40.0	11.5	50	
29/12/2021 Minimum	5	10.3	11.4	50	
Minimum	2				
Maximum	35				
Average Standard Deviation	11.1 6.0				
24-hr Criteria	50				
Number of Exceedences	0				
Annual Average Criteria	25/30*				
		1			

Water - Year to Date

EPL Point 4: Monthly Monitoring

	pН	EC	TSS	Oil & Grease	Comments
Units	pH Units	μS/cm	mg/L	mg/L	-
EPL Criterion*	6.5-8.5	NA	<50	10	-
December 2021	6.5-8.5	125-2200	<50	<5	-
January	7.18	1890	6	<5	-
February	7.11	1880	<5	<5	-
March	7.16	1800	8	6	-
April	7.07	1600	6	<5	-
May	7.12	1680	8	<5	-
June	7.49	1940	26	<5	-
July	7.32	1970	<5	<5	-
August	7.34	1960	<5	<5	-
September	7.30	2050	<5	<5	-
October	7.48	2180	8	<5	-
November	7.24	2080	<5	<5	-
December	7.13	1830	<5	<5	-

EPL Point 5: Monitoring During Discharge

	рН	EC	TSS	Oil & Grease	Comments
Units	pH Units	μS/cm	mg/L	mg/L	-
EPL Criterion*	6.5-8.5	NA	<50	10	-
ANZECC Water Quality Limits	6.5-8.5	125-2200	<50	-	-
4/01/2021	7.24	862	6	<5	-
1/02/2021	7.40	921	<5	<5	-
11/02/2021	7.32	1140	<5	<5	-
1/04/2021	6.67	793	<5	<5	-
3/05/2021	6.83	771	<5	<5	-
25/11/2021	6.83	851	5	<5	-

Flow Meter Records

EPA Identifier	Location	Description	Date	Monthly Total (ML)
4	Adit Dam	Water pumped from Adit Dam to Dam G	4/01/2021 - 1/02/2021	80.9
		(processing use)	1/02/2021 - 1/03/2021	94.8
			1/03/2021 - 1/04/2021	88.5
			1/04/2021 - 3/05/2021	91.4
			3/05/2021 - 1/06-2021	107.8
			1/06/2021 - 1/07/2021	91.8
			1/07/2021 - 2/08/2021	92.9
			2/08/2021 - 1/09/2021	99.0
			1/092021 - 1/10/2021	115.5
			1/10/2021 - 1/11/2021	116.8
			1/11/2021 - 1/12/2021	126.8
			1/12/2021 - 4/12/2022	107.7
				•

EPA Identified	Location	Description	Date	Monthly Total (ML)
5	Dam B	Discharge from Dam B (from Quarry)	4/01/2021 - 1/02/2021	0.0
			1/02/2021 - 1/03/2021	0.0
			1/03/2021 - 1/04/2021	28.3
			1/04/2021 - 3/05/2021	3.7
			3/05/2021 - 1/06-2021	0.0
			1/06/2021 - 1/07/2021	0.0
			1/07/2021 - 2/08/2021	0.0
			2/08/2021 - 1/09/2021	0.0
			1/09/2021 - 1/10/2021	0.0
			1/10/2021 - 1/11/2021	0.0
			1/11/2021 - 1/12/2021	2.2
			1/12/2021 - 4/12/2022	0.0

EPA Identified	Location	Description	Date	Monthly Total (ML)
4	Adit Dam	Adit Dam to Creek (off site)	4/01/2021 - 1/02/2021	33.5
			1/02/2021 - 1/03/2021	94.9
			1/03/2021 - 1/04/2021	271.1
			1/04/2021 - 3/05/2021	142.1
			3/05/2021 - 1/06-2021	65.7
			1/06/2021 - 1/07/2021	74.1
			1/07/2021 - 2/08/2021	29.1
			2/08/2021 - 1/09/2021	28.1
			1/092021 - 1/10/2021	30.5
			1/10/2021 - 1/11/2021	37.6
			1/11/2021 - 1/12/2021	69.4
			1/12/2021 - 4/12/2022	118.5

Metromix Teralba Quarry Daily Rainfall 2021

						Daily Rain	fall (mm)					
Date	January	February	March	April	May	June	July	August	September	October	November	December
1	10.2	0.0	0	0.8	0	0	2.6	0	0	13	0	0.2
2	3	8.2	0	0.2	0	0	0.2	0	0	0	0	0.2
3	0.4	0.0	8.2	0	0	15.6	0	1.8	0	0	0	0
4	13.4	0.0	2.2	0	4.8	0	0	0	1.2	0	2.4	0.4
5	0.4	0.0	0	0	0.2	0	0	0	1.2	0	0.2	1.6
6	0.6	6.8	0	0.8	10.6	0	0	0	0	0	0.2	0
7	2.2	0.6	0	12	3.4	0	0	0	0	0	9.8	1
8	0.6	0.0	1.6	3.4	0	5.8	0	3.2	0	0	4.4	7.6
9	7.4	0.0	7.2	0	1	1.6	4	0.2	0	0	0	2.4
10	0	2.4	0.2	0.4	0	4.4	9.6	0	0	28.2	15	1.2
11	0	0.0	0	0	0.4	0	1.6	0	0	16.4	25.6	0
12	0	0.0	0	0	0	0	0.4	0.6	0	26.4	55.6	0
13	0	34.4	0	0	0	0	1.2	0	0.6	9.6	0	0
14	14.2	0.0	48.8	0	0.2	0	0.2	0	31	8	0	0
15	0.6	13.6	0.2	0	0	0	1	0	0	0	0	0
16	0	14.2	6.2	0.4	0	1.6	0.6	0	0.6	0	0	4.6
17	0	2.6	0.6	5.8	0	0	0	0	0	0	0	0
18	0	15.6	90.4	0.2	0	0	0	3.4	0.2	0	0	0
19	0.8	9.0	28.4	0	0	3.8	0	0	0	2.8	0.8	0
20	2	0.4	47.8	0	0	10.2	0	0	0	1	6.6	0.2
21	0.2	6.0	65	0	3.2	0.6	0	0.2	1	0	47.6	0
22	0	1.8	22.8	0	0	0.4	0	0	0	0	14.2	0
23	0	12.8	21.8	0	0	0.2	0	3.6	0	3.4	3.8	15.2
24	0	4.6	0.2	0	0.6	0	0	50.8	0	0	3	0
25	0	0.0	0	0	0.2	0.2	0	0	3.8	0	21.6	0
26	0	0.2	0	0	0	0	0	0	2.6	0	49.6	0
27	12.6	1.6	0	0	0	0	0	0	0	0	14.8	21
28	40.8	0.2	0	0	0	2	1	0	0	0	2.6	24.6
29	11.2		0	0	0	8.6	0	0	2.2	0	0	3.6
30	9.4		9.4	0	0.4	0.2	0	0	1.8	5.4	2.4	0
31	0		1.8		0		0	0		0		0
Monthly Total	130.0	135.0	362.8	24.0	25.0	55.2	22.4	63.8	46.2	114.2	280.2	83.8
											Annual Total:	1342.6





14 September 2021

Ref: 8413/9388

Metromix Pty Ltd 150 Rhondda Road Teralba NSW 2284

AUGUST 2021 NOISE MONITORING RESULTS – TERALBA QUARRY

This letter report presents the results of attended noise monitoring conducted for the Metromix operated Teralba Quarry (TQ) commencing on Monday 16th and finishing on Wednesday 18th of August, 2021. Noise monitoring was carried out in accordance with the conditions of the TQ Noise Management Plan (NMP) as shown in extract on page 2 (referenced from EPL 536).

Although the project approval nominates noise criteria at nine locations, Metromix recognises that meaningful monitoring data will continue to be collected from the closest locations to the active operational areas. As a result of this, and as outlined within the approved NMP, for periods when operations are confined to areas south of Rhondda Road, noise monitoring will be undertaken at Locations EPL-A, B, D, E and H.

Further to this, location EPL-C and EPL-F have been omitted from the noise monitoring programme given they are not required as other monitoring locations are nearby and closer to quarry related noise sources. This has been recognised by the EPA by the removal of these locations from the monitoring locations detailed in EPL 536. **Table 1** lists the address and coordinates of each noise monitoring location, with the relevant monitoring locations that were monitored during the August 2020 period highlighted in **bold**. The locations are shown on the figure in **Appendix I**.

	Table	1							
Noise Monitoring Locations (from PA 10-0183)									
Location in EPL	Northing								
EPL-A	Awaba Street, Teralba	369080	3651470						
EPL-B ¹	Rhondda Road, Teralba	369250	6351915						
EPL-C	Rhondda Road, Teralba ²	369205	6352015						
EPL-D	Rhondda Road, Teralba	369150	6352135						
EPL-E	Victoria Avenue, Teralba	369060	6352620						
EPL-F	Victoria Avenue, Teralba ²	369130	6352945						
EPL-H	School Road, Wakefield	366210	6352520						

^{1.} See text in relation to changes to monitoring location

Phone: (02) 4954 2276

^{2.} Metromix has obtained permission for this monitoring location to be omitted.



It is noted that during the period when monitoring is undertaken at Location B, Metromix is required to provide a spotter to record the number of trucks departing from the Quarry and not the Teralba Business Park. Spectrum Acoustics personnel undertook identification of quarry trucks as part of the noise monitoring procedure.

As part of pre monitoring protocols Spectrum Acoustics notified, by letterbox drop, all landowners in the close vicinity of each site of the impending monitoring. The resident at Location B has previously told Metromix that they didn't want monitoring to be done near their residence so monitoring was undertaken at a point approximately 30m south (as shown in Appendix I).

The following presents noise related conditions of EPL 536 relevant to the compliance noise monitoring programme.

Condition	Requirement									
L5.2	The licensee must er exceed the following									
	Location	Day Shoulder 6:00am - 7:00am	Day 7:00am - 6:00pm	Evening 6:00pm – 10:00pm	Night 10:00pm – 6:00am					
		L _{Aeq (15 minute)}	L _{Aeq (15 minute)}	LAeq (15 minute)	L _{Aeq (15 minute)}					
	EPL-A	38	38	37	L _{A1(1min)} 35 45					
	EPL-B	42	46	36	35 45					
	EPL-C	42	42	35	35 45					
	EPL-D, EPL-E, EPL-H	35	35	35	35 45					
	EPL-F	37	38	38	35 45					
	Note: The licensee may provide to the EPA written evidence of any agreement with a landholder which is subject to the above noise limits. The written evidence may be submitted with a licence variation to remove the landholder from the above table.									
L5.3	b) Day is define a. the p b. the p c) Evening is do d) Night is defin a. the p b. the p	er is defined as the ed as: period from 7am to period from 8am to efined as the period ed as: period from 10pm to period from	6pm Monday to \$ 6pm Sundays an d from 6pm to 10p o 7am Monday to o 8am Sundays a	Saturday; and d Public Holidays. om. Saturday; and ind Public Holidays	S.					
L5.4	The contributed noise within EPL 536 at the premises to the north licence, or by the EP	e most noise-affect and/or south of th	ed point on or wit	hin the boundary o	of any residential					
L5.5	b) Stability cate 2 metres/sec	owing: s greater than 3 me gory F temperature cond at 10 metres a	etres/second at 10 e inversion condit above ground leve	metres above gro ions and wind spe el; or	ound level; or					
	c) Stability cate	gory G temperatur	e inversion condi	tions.						





	T							
	 a) the meteorological data to be used for determining meteorological conditions is the data recorded at the meteorological station identified in this licence as EPA Identification Point W1. 							
	 Stability category temperature inversion conditions are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the NSW industrial Noise Policy (EPA 2000) 							
	Note: The weather station must be designed, commissioned and operated in a manner to obtain the necessary parameters required under the above condition.							
L5.7	To determine compliance:							
	With the L _{Aeq(15 min)} noise limits in condition L5.2, the licensee must locate noise monitoring equipment;							
	 a) approximately on the boundary, where any dwelling is situated 30 metres or less from the property boundary that is closest to the premises; or, 							
	b) within 30 metres of a dwelling facade (but not closer than 3 metres) where any dwelling on the property is situated more than 30 metres from the property boundary that is closest to the premises; or where applicable							
	 c) within approximately 50 metres if the boundary of a national park or nature reserve. 2. With the LA1(1 minute) noise limits in condition L5.2, the noise monitoring equipment 							
	must be located within 1 metre of a dwelling facade. 3. With the noise limits in condition L5.2, the noise monitoring equipment must be located;							
	a) at the most affected point at a location where there is no dwelling at the location, or							
	b) at the most affected point within an area at a location prescribed by conditions L5.7 1(a) or L5.7 1(b).							
L5.8	A non-compliance will still occur where noise generated from the premises in excess of the appropriate noise limit is measured:							
	a) at a location other than an area prescribed by the conditions of this licence, and /or							
_	b) at a point other than the most affected point at a location.							
L5.9	For the purpose of determining the noise generated at the premises the licensee must use a Class 1 or Class 2 noise monitoring device as defined by AS IEC61672.1 and AS IEC61672.2-2004, or other noise monitoring equipment accepted by the EPA in writing.							
L5.10	For the purposes of determining the noise generated at the premises the modification factors in Section 4 of the NSW Industrial Noise Policy must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.							
L7.1	The licensee must comply with the operating hours specified in Column 2, Column 3, and Column 4 of the table below:							
	Day Loading and Extraction and Receipt of Concrete Dispatch of Quarry Processing Trucks							
	Monday - 4:00am Monday to 7:00am to 7:00pm 7:00am to 5:00pm Friday midnight Friday							
	Saturday Midnight Friday to 7:00am to 2:00pm 7:00am to 2:00pm 6:00pm Saturday							
	Sundays and None none none Public Holidays							
	Note: Maintenance activities may occur at any time provided they are inaudible at privately-owned residence. *VENM = Virgin Excavated Natural Material **ENM = Excavated Natural Material							





M9 Noise monitoring

M9.1 To assess compliance with the noise limits specified within this licence, the licensee must undertake operator attended noise monitoring at each specified noise monitoring point in accordance with the table below.

POINT 12,13,15,16,18

Assessment period	Minimum frequency in a reporting period	Minimum duration within assessment period	Minimum number of assessment period
Day	2 times a year	1.5 hours	3 consecutive operation days
Evening	2 times a year	30 minutes	3 consecutive operation days
Night	2 times a year	1 hour	3 consecutive operation days

M9.2 The licensee must undertake the operator attended noise monitoring at each one of or at one or more noise monitoring points that is representative of the worse-case location(s) listed in this licence.

NOISE MEASUREMENTS

Attended noise monitoring was conducted with Brüel & Kjær Type 2250 Precision Sound Analysers. These instruments have Type 1 characteristics as defined in AS1259-1982 "Sound Level Meters" and have current NATA calibration. Field calibration of each instrument was carried out at the start and end of each monitoring period.

The noise monitoring was conducted in general accordance with the requirements of Section 9 of the NMP (Noise Monitoring Protocol and Evaluation of Compliance) as follows;

"Metromix proposes to adopt a noise monitoring protocol that provides feedback on the effectiveness of the noise control measures and demonstrate compliance with the conditions within the Project Approval 10_0183 and Environment Protection Licence 0536.

The approach to monitoring compliance is based substantially upon Metromix's experience to date which has identified the on-site activities have not been the source of noise complaints or any recorded non-compliance. Hence, it is considered the monitoring program needs to reflect this fact."

A-weighted noise levels were measured over 15 minute monitoring periods with data acquired at 1 second statistical intervals and the meter set to "fast" response. Each 1 second measurement is accompanied by a third-octave band spectrum from 20 - 20k Hz which is required for analysing INP 'modifying factors'. Time based field notes allow for determination of the relative contributions to the overall noise level of all significant noise sources.

The worst case 15 minute Leq noise level for each monitoring period is shown in the tables below. Where the noise from TQ was audible, Bruel & Kjaer "Evaluator" analysis software was used to quantify the contributions of the quarry and other significant noise sources to the overall level.





Quarry noise from TQ is shown in the tables in bold type. Where noise from TQ is listed as faintly audible, this means the noise levels from the quarry were at least 10 dB below the ambient level during the measurement and not measurable.

Noise levels were recorded for each of the L10, Leq, Lmax, L1, L90 and Lmin percentiles. All noise levels shown in the tables of results are in dB(A) Leq (15 min). Levels for the other percentiles are not shown as they have no compliance criteria for comparison but are available on request. Meteorological data used in this report was obtained from the quarry-operated weather station at the site. The wind speeds and directions shown in the tables of results are the arithmetic average of the five minute measurement periods throughout the entire noise monitoring period at each site.

At the time of the noise monitoring survey there were limitations placed on the movement of people in the area due to the impacts of COVID 19. From an acoustic point of view this meant that there was less road and rail traffic than would typically be the case (relative to previous noise monitoring). There was also less contribution to the acoustic environment from noise from other industries in the area.

Noise Compliance Assessment

The results of the noise measurements undertaken throughout the various time periods are provided in **Tables 2** to **16**. EPL 536 refers to the various time periods as follows:

- a) Day-Shoulder is defined as the period between 6am to 7am Monday to Saturday.
- b) Day is defined as:
 - (i) the period from 7am to 6pm Monday to Saturday; and
 - (ii) the period from 8am to 6pm Sundays and Public Holidays.
- c) Evening is defined as the period from 6pm to 10pm.
- d) Night is defined as:
 - (i) the period from 10pm to 7am Monday to Saturday; and
 - (ii) the period from 10pm to 8am Sundays and Public Holidays.

Table 2 Teralba Quarry Noise Monitoring Results – 16 August 2021 (Night)								
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min)			
Α	5:35 am	47	35	0.6 / 359	Traffic (46), birds (40), industrial noise (36), TQ (25) ¹			
В	4:30 am	49	35	1.9 / 0	Traffic (48), frogs (42), rooster (37), trains (29), TQ inaudible			
D	4:30 am	40	35	1.9 / 348	Traffic (40), TQ inaudible			
Е	5:35 am	50	35	2.2 / 325	Birds (50), traffic (33), TQ inaudible			
Н	5:00 am	48	35	2.3 / 310	Traffic (45), birds (45), TQ inaudible			
Notes: 1. Tr	Notes: 1. Trucks on access road.							





	Table 3 Teralba Quarry Noise Monitoring Results – 16 August 2021 (Day Shoulder)							
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min)			
Α	6:35 am	47	38	2.2 / 323	Birds (45), traffic (42), trains (34), industrial noise (31), TQ (28)			
В	6:23 am	49	42	1.0 / 14	Traffic (47), industrial noise (43), TQ (31) ¹			
D	6:45 am	54	35	2.2 / 354	Traffic (54), birds (42), TQ inaudible			
E	6:35 am	52	35	3.3 / 331	Birds (52), traffic (35), TQ inaudible			
Н	6:01 am	45	35	0.5 / 316	Traffic (43), birds (40), TQ inaudible			
Notes: 1. Tr	Notes: 1. Trucks on access road.							

	Table 4 Teralba Quarry Noise Monitoring Results – 16 August 2021 (Day)								
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min)				
Α	7:00 am	49	38	1.8 / 335	Birds (46), traffic (46), TQ (33) , industrial noise (31)				
В	8:35 am	56	46	0.9 / 275	Traffic (53), birds (53), trains (37), industrial noise (35), TQ (33) ¹				
D	7:00 am	51	35	2.1 / 322	Birds (50), traffic (42), TQ (38)				
E	9:15 am	51	35	2.9 / 304	Birds (50), traffic (42), TQ (38)				
Н	4:29 pm	48	35	2.7 / 266	Birds (47), traffic (38), TQ inaudible				
Notes: 1. Tr	Notes: 1. Trucks on access road								

	Table 5 Teralba Quarry Noise Monitoring Results – 16 August 2021 (Evening)								
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min)				
Α	8:31 pm	46	37	3.0 / 238	Trains (44), industrial noise (39), TQ inaudible				
В	7:15 pm	49	36	2.0 / 236	Traffic (47), trains (42), TQ inaudible				
D	6:41 pm	50	35	2.9 / 342	Traffic (50), birds (39), TQ inaudible				
Е	7:53 pm	38	35	2.7 / 271	Traffic (37), birds (30), TQ inaudible				
Н	6:01 pm	36	35	1.3 / 211	Birds (34), Traffic (31), TQ inaudible				

	Table 6 Teralba Quarry Noise Monitoring Results – 17 August 2021 (Night)								
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min)				
Α	5:35 am	46	35	0.6 / 209	Birds (44), traffic (41), industrial noise (28), TQ (22)				
В	4:30 am	57	35	1.2 / 248	Frogs (55), traffic (50), trains (47), rooster (42), TQ inaudible				
D	4:30 am	36	35	1.1 / 270	Traffic (36), TQ inaudible				
E	5:35 am	41	35	0.7 / 295	Birds (40), traffic (35), TQ inaudible				
Н	5:00 am	44	35	0.6 / 269	Traffic (41), birds (39), TQ inaudible				





Table 7 Teralba Quarry Noise Monitoring Results – 17 August 2021 (Day Shoulder)							
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min)		
Α	6:35 am	50	38	1.1 / 351	Birds (49), traffic (42), industrial noise (27), TQ (30)		
В	6:23 am	46	42	0.8 / 326	Traffic (44), industrial noise (40), TQ (26)1		
D	6:46 am	53	35	0.9 / 300	Traffic (51), birds (45), TQ (38)		
Е	6:35 am	45	35	0.6 / 318	Birds (42), trains (40), traffic (36), TQ (25)		
Н	6:01 am	45	35	1.1 / 315	Birds (42), traffic (41), TQ inaudible		
Note: 1 True	Note: 1 Trucks on access road						

Table 8 Teralba Quarry Noise Monitoring Results – 17 August 2021 (Day)								
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min)			
Α	7:00 am	51	38	1.0 / 322	Traffic (50), birds (45), TQ (31) ¹ , industrial noise (24)			
В	8:35 am	59	46	2.3 / 340	Traffic (57), birds (54), industrial noise (43), TQ inaudible			
D	7.00 am	51	35	0.5 / 312	Birds (48), traffic (46), TQ (40)			
Е	8:35 am	40	35	1.5 / 297	Birds (38), traffic (32), TQ (28)			
Н	4:30 pm	47	35	1.0 / 62	Birds (44), traffic (43), TQ inaudible			
Note: 1 Tru	Note: 1 Trucks on access road							

	Table 9 Teralba Quarry Noise Monitoring Results – 17 August 2021 (Evening)								
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min)				
Α	8:28 pm	42	37	0.4 / 218	Trains (41), Dog (33), TQ barely audible				
В	7:10 pm	51	36	0.4 / 276	Traffic (48), birds (48), TQ inaudible				
D	6:36 pm	52	35	0.5 / 320	Traffic (52), TQ (37)				
E	7:47 pm	39	35	0.4 / 193	Traffic (36), birds (35), TQ inaudible				
Н	6:00 pm	42	35	0.1 / 306	Traffic (40), birds (38), TQ inaudible				

	Table 10 Teralba Quarry Noise Monitoring Results – 18 August 2021 (Night)								
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min)				
Α	5:35 am	49	35	1.1 / 229	Insects (46), traffic (45), birds (36), TQ inaudible				
В	4:30 am	58	35	0.6 / 172	Trains (57), insects (41), traffic (46), TQ inaudible				
D	4:30 am	38	35	1.0 / 208	Traffic (38), birds (25), TQ inaudible				
E	5:35 am	45	35	1.3 / 255	Birds (45), traffic (32), TQ inaudible				
Н	5:01 am	46	35	0.8 / 205	Traffic (44), birds (39), TQ inaudible				





	Table 11 Teralba Quarry Noise Monitoring Results – 18 August 2021 (Day Shoulder)								
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min)				
Α	6:35 am	52	38	0.6 / 208	Traffic (50), birds (48), industrial noise (28), TQ inaudible				
В	6:43 am	47	42	1.5 / 257	Traffic (45), industry (42), train (36), TQ inaudible				
D	6:24 am	51	35	0.6 / 208	Traffic (50), birds (40), TQ (37)				
E	6:35 am	48	35	1.4 / 270	Birds (48), traffic (32), TQ (28)				
Н	6:00 am	48	35	1.9 / 240	Birds (46), traffic (44), TQ inaudible				

	Table 12 Teralba Quarry Noise Monitoring Results – 18 August 2021 (Day)								
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min)				
Α	7:00 am	48	38	1.5 / 237	Birds (47), traffic (42), TQ (27)				
В	8:35 am	51	46	2.4 / 263	Traffic (50), birds (43), TQ (34) ¹				
D	7:00 am	47	35	1.4 / 244	Birds (45), traffic (38), TQ (38) , other industry (30)				
Е	8:35 am	42	35	1.2 / 193	Birds (42), TQ (32) , traffic (39)				
Н	4:31 pm	44	35	0.3 / 116	Birds (42), traffic (28), TQ inaudible				
Note: 1 Tru	Note: 1 Trucks on access road								

	Table 13 Teralba Quarry Noise Monitoring Results – 18 August 2021 (Evening)								
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min)				
Α	8:29 pm	48	37	1.1 / 344	Traffic (47), trains (41), TQ inaudible				
В	7:13 pm	45	36	0.9 / 279	Traffic (43), trains (39), TQ inaudible				
D	6:38 pm	50	35	0.4 / 44	Traffic (50), birds (36), TQ (32)				
E	7:50 pm	39	35	0.4 / 304	Birds (37), traffic (32), TQ inaudible				
Н	6:01 pm	44	35	0.6 / 99	Traffic (42), birds (40), TQ (<20)				

The results shown in Tables 2 to 13 show that, under the operational and atmospheric conditions at the time of monitoring, noise emissions from TQ exceeded the relevant criterion at Location D throughout the survey and at Location E during the day on 16 August. Visual inspection of the quarry from Rhondda Road, at these times, identified significant extraction equipment operating at natural ground level, and haul trucks transporting material on a haul road, on the southern edge of the extraction area.

All of the measured transport noise was attributed to TQ. It is understood, however, that, during the entire monitoring period, a nearby coal mine was transporting fly ash, in trucks, along a haul road to the west of TQ. The road in use passes through sections of the TQ lease area. Noise from trucks using this haul road would be of similar character to the noise from transport activity in the quarry and it would not be possible to determine the relative contributions of each to the total received noise.

Monitoring location EPL-B is situated close to the corner of Rhondda Road and Railway Street. This monitoring location is included predominantly to measure quarry noise from emissions from trucks exiting the site along the private section of the access road (through the Teralba Business Park). From the monitoring location it





was possible to determine which trucks were associated with the quarry and a dedicated spotter was not required during this monitoring period.

When measuring noise at the EPL-B location, the noise emissions from the exiting quarry trucks (whilst on the private section of the access road) was measured and the worst case 15 minute Leq noise level calculated based on the time each truck was on the private road. The worst case calculated Leq level for the trucks is that shown for Location B in Tables 2 to 13.

At location EPL-D the acoustic environment is significantly influenced by noise from traffic on Rhondda Rd and birds. Noise from trains and other industries within the vicinity also contributed to the acoustic environment. Due to the intermittent scheduling of trains, noise from these could be isolated from the worst case 15 minute periods (in relation to quarry noise). Noise emissions from the batching plant which is located adjacent to TQ contributed to the received noise during some monitoring periods. Due to the relative proximity of the batch plant to the quarry it is not possible to determine the relative contributions of each to the received noise.

Data from those times where TQ operations were audible were analysed using the "Evaluator" software. This analysis showed the noise did not contain any tonal, impulsive or low frequency components as per definitions of "modifying factor corrections" in the NSW Industrial Noise Policy.

In addition to the operational noise, the noise from TQ must not exceed **45 dB(A) L1 (1 min)** within the night-time period i.e. between the hours of 10 pm and 7 am, in accordance with *Condition L4.1* of EPL 536. This is to minimise the potential for sleep disturbance as a result of individual loud noises from the quarry. The compliance measurement locations are different for each of the operational and sleep disturbance noise. That is, the sleep disturbance criterion is typically applicable at 1m from the façade of a bedroom window.

To avoid undue disturbance to residents, the L1 (1 min) noise level from the operational measurements are used to show general compliance with the sleep disturbance criterion. That is, as the distance between the noise source and the operational noise monitoring location is significantly greater than the distance between the operational noise monitoring location and the sleep disturbance monitoring location (i.e. 1m from the facade of the house) there will be little variation in L1 (1 min) levels between the two monitoring locations. It must be noted, however, that the sleep disturbance criterion is to be measured near a bedroom window. As the internal layout of each residence is not known, to consider a worst case, a bedroom window is assumed to be facing the operational noise monitoring location.

The results of the sleep disturbance measurements are shown in **Tables 14** to **16**.

	Table 14 Teralba Quarry (L1 (1min)) Noise Monitoring Results – 16 August 2021 (Night)								
Location	Time	dB(A), L _{1(1minute)}	Wind speed (m/s) / direction	L _{A1} source	Identified Quarry Sources (L _{1 (1 min)})				
Α	5:35 am	64	0.6 / 359	Traffic	n/a				
В	4:30 am	67	1.9 / 0	Traffic	n/a				
D	4:30 am	50	1.9 / 348	Traffic	n/a				
E	5:35 am	58	2.2 / 325	Birds	n/a				
Н	5:00 am	57	2.3 / 310	Birds	n/a				





	Table 15 Teralba Quarry (L1 (1min)) Noise Monitoring Results – 17 August 2021 (Night)								
Location	Time	dB(A), L _{1(1minute)}	Wind speed (m/s) / direction	L _{A1} source	Identified Quarry Sources (L _{1 (1 min)})				
Α	5:35 am	63	0.6 / 209	Traffic	n/a				
В	4:30 am	65	1.2 / 248	Traffic	n/a				
D	4:30 am	53	1.1 / 270	Traffic	n/a				
E	5:35 am	54	0.7 / 295	Birds	n/a				
Н	5:00 am	54	0.6 / 269	Birds	n/a				

	Table 16 Teralba Quarry (L1 (1min)) Noise Monitoring Results – 18 August 2021 (Night)								
Location	Location Time L1(1minute) (m/s) / direction LA1 source Identified Quarry Sources (L1 (1								
Location	Time	L1(1minute)	(III/S) / UITECTION	L _{A1} source	Identified Quarry Sources (L _{1 (1 min)})				
Α	5:35 am	69	1.1 / 229	Traffic	n/a				
В	4:30 am	80	0.6 / 172	Train	n/a				
D	4:30 am	62	1.0 / 208	Train	n/a				
E	5:35 am	55	1.3 / 255	Birds	n/a				
Н	5:01 am	56	0.8 / 205	Birds	n/a				

As shown in Tables 14 to 16, during the night time measurement circuits the L1 (1 min) noise from TQ did not exceed 45 dB(A) at any monitoring location.

In summary the results of the noise monitoring programme have shown that the Teralba Quarry exceeded its noise limits at some locations during the survey, most likely due to heavy equipment operating at the highest point in the extraction area. The quarrying in this location was to be of relatively short duration and as, no actions are recommended with respect to noise management at Teralba Quarry.

We trust this report fulfils your requirements at this time, however, should you require additional information or assistance please contact the undersigned on 4954 2276.

Yours faithfully,

SPECTRUM ACOUSTICS PTY LIMITED

X

Author:

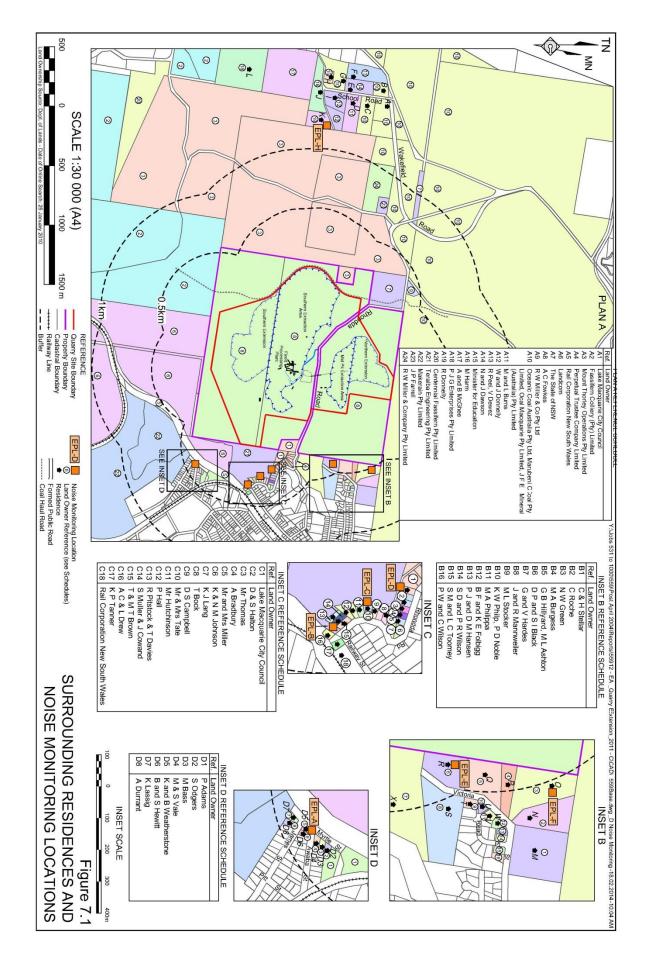
Neil Pennington MAIP, MAAS

Acoustical Consultant

Review:

Ross Hodge MAAS
Acoustical Consultant











Location EPL – B Modified noise monitoring location



3 November 2021

Ref: 8413/29569

Metromix Pty Ltd 150 Rhondda Road Teralba NSW 2284

ADDITIONAL NOISE MONITORING RESULTS, NOVEMBER 2021 - TERALBA QUARRY

This letter report presents the results of attended noise monitoring conducted for the Metromix operated Teralba Quarry (TQ) during the day-shoulder and day periods on Tuesday 2nd and Wednesday 3rd of November, 2021. Noise monitoring was carried out generally in accordance with the conditions of the TQ Noise Management Plan (NMP) as shown in extract on page 2 (referenced from EPL 536).

During the previous noise compliance monitoring for the quarry, in August 2021, the noise criterion was exceeded at two locations (EPL - D and EPL - E) during the day-shoulder and day time monitoring periods. Noise from mobile crushing activities were identified as the source of the elevated noise levels.

The current, follow up, noise monitoring was undertaken whilst similar mobile crushing activities were underway, but with a series of management measures in place to minimise the potential for noise emissions to create adverse impacts.

Table 1 lists the address and coordinates of the noise monitoring locations detailed in the NMP, with the relevant monitoring locations that were monitored during the November 2021 period highlighted in **bold**. The locations are shown on the figure in **Appendix I**.

	Table 1								
Noise Monitoring Locations (from PA 10-0183)									
Location in EPL Address Easting Northing									
EPL-A	Awaba Street, Teralba	369080	3651470						
EPL-B	Rhondda Road, Teralba	369250	6351915						
EPL-C	Rhondda Road, Teralba	369205	6352015						
EPL-D	Rhondda Road, Teralba	369150	6352135						
EPL-E	Victoria Avenue, Teralba	369060	6352620						
EPL-F	Victoria Avenue, Teralba	369130	6352945						
EPL-H	School Road, Wakefield	366210	6352520						

Phone: 0412 023 455



The following presents noise related conditions of EPL 536 relevant to compliance noise monitoring.

Condition	Requirement										
L5.2					ctivities within the pesidence or private						
	-	ation	Day Shoulder 6:00am - 7:00am	Day 7:00am - 6:00pm	Evening 6:00pm – 10:00pm	Night 10:00pm – 6:00am					
			LAeq (15 minute)	LAeq (15 minute)	L _{Aeq (15 minute)}	L _{Aeq (15 minute)} L _{A1(1min)}					
	EPL-A		38	38	37	35 45					
	EPL-B		42	46	36	35 45					
	EPL-C	. = ==:	42	42	35	35 45					
		L-E, EPL-H	35	35	35	35 45					
	EPL-F		37	38	38	35 45					
	al	Note: The licensee may provide to the EPA written evidence of any agreement with a landholder which is subject to the above noise limits. The written evidence may be submitted with a licence variation to remove the landholder from the above table.									
L5.3	· ·	•	ondition L5.2:								
	a) Day-Shoulder is defined as the period between 6am to 7am Monday to Saturday. b) Day is defined as:										
	a. the period from 7am to 6pm Monday to Saturday; and										
	b. the period from 8am to 6pm Sundays and Public Holidays.										
	c) Evening is defined as the period from 6pm to 10pm.										
	d) Night is defined as:										
	a. the period from 10pm to 7am Monday to Saturday; andb. the period from 10pm to 8am Sundays and Public Holidays.										
L5.4	within EPL premises t	536 at the	most noise-affect and/or south of th	ed point on or wit	exceed the noise link hin the boundary of pt as expressly pro	of any residential					
L5.5	for anyone	of the follo	wing:		meteorological co						
	 a) Wind speeds greater than 3 metres/second at 10 metres above ground level; or b) Stability category F temperature inversion conditions and wind speeds greater the 										
	2 metres/second at 10 metres above ground level; orc) Stability category G temperature inversion conditions.										
L5.6	For the pu	rpose of cor	ndition L5.5:								
	da		at the meteorolog		ng meteorological of the street if it is the street in this licence						
	sig		ethod referred to		ns are to be detern endix E to the <i>NS</i>						
	Note:	The weather sta	′		operated in a manner	to obtain the					
L5.7	To determ	ine complia	nce:								
	1. With the L _{Aeq(15 min)} noise limits in condition L5.2, the licensee must locate noise monitoring equipment; 2) approximately on the boundary where any dwelling is situated 30 metres or less from										
	 a) approximately on the boundary, where any dwelling is situated 30 metres or less from the property boundary that is closest to the premises; or, 										



	dwelling	g on the property is	`	ser than 3 metres) where metres from the property le	,				
	 c) within approximately 50 metres if the boundary of a national park or nature reserve. 2. With the LA1(1 minute) noise limits in condition L5.2, the noise monitoring equipment must be located within 1 metre of a dwelling facade. 								
			•	itoring equipment must be	e located;				
	a) at the r	nost affected point a	t a location where the	re is no dwelling at the lo	cation, or				
	,	nost affected point w L5.7 1(b).	rithin an area at a loca	ation prescribed by condit	ions L5.7				
L5.8		ice will still occur wh se limit is measured:		rom the premises in exce	ess of the				
	,		area prescribed by the est affected point at a	e conditions of this licence location.	e, and /or				
L5.9	For the purpose of determining the noise generated at the premises the licensee must use a Class 1 or Class 2 noise monitoring device as defined by AS IEC61672.1 and AS IEC61672.2-2004, or other noise monitoring equipment accepted by the EPA in writing.								
L5.10	in Section 4 of		loise Policy must be a	he premises the modificat applied, as appropriate, to					
L7.1	The licensee m Column 4 of the	, ,	operating hours speci	fied in Column 2, Column	3, and				
	Day	Receipt of Concrete							
	Monday -	4:00am Monday to	7:00am to 7:00pm	7:00am to 5:00pm					
	Friday Saturday	midnight Friday Midnight Friday to 6:00pm Saturday	7:00am to 2:00pm						
	Sundays and Public Holidays	Sundays and None none none							
	Public Holidays Note: Maintenance activities may occur at any time provided they are inaudible at privately-owned residence. *VENM = Virgin Excavated Natural Material **ENM = Excavated Natural Material								

M9 Noise monitoring

M9.1 To assess compliance with the noise limits specified within this licence, the licensee must undertake operator attended noise monitoring at each specified noise monitoring point in accordance with the table below.

POINT 12,13,15,16,18

Assessment period	Minimum frequency in a reporting period	Minimum duration within assessment period	Minimum number of assessment period
Day	2 times a year	1.5 hours	3 consecutive operation days
Evening	2 times a year	30 minutes	3 consecutive operation days
Night	2 times a year	1 hour	3 consecutive operation days

M9.2 The licensee must undertake the operator attended noise monitoring at each one of or at one or more noise monitoring points that is representative of the worse-case location(s) listed in this licence.





NOISE MEASUREMENTS

Attended noise monitoring was conducted with Brüel & Kjær Type 2250 Precision Sound Analysers. These instruments have Type 1 characteristics as defined in AS1259-1982 "Sound Level Meters" and have current NATA calibration. Field calibration of each instrument was carried out at the start and end of each monitoring period.

The noise monitoring was conducted in general accordance with the requirements of Section 9 of the NMP (Noise Monitoring Protocol and Evaluation of Compliance) as follows;

"Metromix proposes to adopt a noise monitoring protocol that provides feedback on the effectiveness of the noise control measures and demonstrate compliance with the conditions within the Project Approval 10_0183 and Environment Protection Licence 0536.

The approach to monitoring compliance is based substantially upon Metromix's experience to date which has identified the on-site activities have not been the source of noise complaints or any recorded non-compliance. Hence, it is considered the monitoring program needs to reflect this fact."

A-weighted noise levels were measured over 15 minute monitoring periods with data acquired at 1 second statistical intervals and the meter set to "fast" response. Each 1 second measurement is accompanied by a third-octave band spectrum from 20 - 20k Hz which is required for analysing INP 'modifying factors'. Time based field notes allow for determination of the relative contributions to the overall noise level of all significant noise sources.

The worst case 15 minute Leq noise level for each monitoring period is shown in the tables below. Where the noise from TQ was audible, Bruel & Kjaer "Evaluator" analysis software was used to quantify the contributions of the quarry and other significant noise sources to the overall level.

The measured noise levels are shown in the tables of results below. Quarry noise from TQ is shown in bold type.

Noise levels were recorded for each of the L10, Leq, Lmax, L1, L90 and Lmin percentiles. All noise levels shown in the tables of results are in dB(A) Leq (15 min). Levels for the other percentiles are not shown as they have no compliance criteria for comparison but are available on request.

Meteorological data used in this report was obtained from the quarry-operated weather station at the site. The wind speeds and directions shown in the tables of results are the arithmetic average of the five minute measurement periods throughout the entire noise monitoring period at each site.

Noise Compliance Assessment

The results of the noise measurements undertaken throughout the various time periods are provided in **Tables 2** to **5**. EPL 536 refers to the various time periods as follows:

a) Day-Shoulder is defined as the period between 6am to 7am Monday to Saturday.



b) Day is defined as:

- (i) the period from 7am to 6pm Monday to Saturday; and
- (ii) the period from 8am to 6pm Sundays and Public Holidays.

Table 2 Teralba Quarry Noise Monitoring Results – 2 November 2021 (Day Shoulder)							
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))		
D	6:35 am	54	35	0.3 / 152	Traffic (51), birds (51), TQ inaudible		
Е	6:15 am	50	35	0.3 / 152	Birds (50), traffic (38), domestic noise (35), TQ inaudible		

Table 3 Teralba Quarry Noise Monitoring Results – 2 November 2021 (Day)								
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))			
D	7:00 am	50	35	0.4 / 172	Birds (47), traffic (46), other industry (40), TQ occasionally audible (<20)			
E	7:00 am	47	35	0.4 / 172	Birds (46), traffic (36), domestic noise, (36), TQ inaudible			

	Table 4 Teralba Quarry Noise Monitoring Results – 3 November 2021 (Day Shoulder)							
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))			
D	6:15 am	46	35	1.2 / 32	Birds (46), traffic (32), TQ inaudible			
E	6:35 am	52	35	1.2 / 32	Birds (52), traffic (35), TQ inaudible			

Table 5 Teralba Quarry Noise Monitoring Results – 3 November 2021 (Day)					
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))
D	7:00 am	48	35	1.8 / 46	Traffic (46), birds (42), other industry (30), TQ occasionally audible (<20)
Е	7:00 am	48	35	1.8 / 46	Birds (48), traffic (30), TQ inaudible

The results shown in Tables 2 to 5 show that, under the operational and atmospheric conditions at the time of monitoring, noise emissions from TQ did not exceed the relevant criterion at either Location D or E throughout the survey.

Visual inspection of the quarry from Rhondda Road, at these times, identified that the quarry was operating as detailed previously in this report.

The quarry was occasionally audible during the day time period, on both days, at Location D as engine revs and low level hum. This noise was not loud, or consistent, enough to be accurately measurable. The noise level was less than 20 dB(A) Leq (15 min). The quarry was not audible at this location during the day-shoulder period.





At this location noise from other industries within the vicinity, and trains, also contributed to the acoustic environment. Due to the intermittent nature of the noise from these sources the noise from them could be isolated from the worst case 15 minute periods (in relation to quarry noise).

At Location E the noise from the quarry was inaudible during each period on either day.

In addition to the operational noise, the noise from TQ must not exceed **45 dB(A) L1 (1 min)** within the night-time period i.e., between the hours of 10 pm and 7 am, in accordance with *Condition L4.1* of EPL 536. This is to minimise the potential for sleep disturbance as a result of individual loud noises from the quarry. The compliance measurement locations are different for each of the operational and sleep disturbance noise. That is, the sleep disturbance criterion is typically applicable at 1m from the façade of a bedroom window.

To avoid undue disturbance to residents, the L1 (1 min) noise level from the operational measurements are used to show general compliance with the sleep disturbance criterion. That is, as the distance between the noise source and the operational noise monitoring location is significantly greater than the distance between the operational noise monitoring location and the sleep disturbance monitoring location (i.e. 1m from the facade of the house) there will be little variation in L1 (1 min) levels between the two monitoring locations. It must be noted, however, that the sleep disturbance criterion is to be measured near a bedroom window. As the internal layout of each residence is not known, to consider a worst case, a bedroom window is assumed to be facing the operational noise monitoring location.

The noise from the quarry was inaudible at each monitoring location during the night time period (day-shoulder in this reporting) and, therefore, the noise from TQ did not exceed the sleep disturbance criterion.

In summary, the results of this follow up noise monitoring programme have shown that TQ did not exceed its noise limits at the monitored locations during the survey.

We trust this report fulfils your requirements at this time, however, should you require additional information or assistance please contact the undersigned on 0412 023 455.

Yours faithfully,

SPECTRUM ACOUSTICS PTY LIMITED

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Acoustical Consultant





