

Appendix 1

Monitoring Data and Records

(Total No. of pages including blank pages = 93)

2021-2022 Annual Return for Extractive Materials

2022 Transportation Movements

2022 Air Quality Monitoring

2022 Surface Water Monitoring

2022 Daily Rainfall Monitoring

2022 Noise Monitoring Report

Extractive Materials Return

2021-2022



Regional
NSW

Form S1 – Period Ending 30 June 2022

Quote RIMS ID in all correspondence

Quarry Id: 1118 Rims ID: 400066	Inquiries please telephone: (02) 4063 6713 Completed or Nil Returns Email – mineral.royalty@planning.nsw.gov.au Postal Address (see below)
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	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 2022**. 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 Quarry _____ TERALBA _____

Local Council Name _____ LAKE 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 Licensee _____ METROMIX 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 Department _____ N/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 MANAGER** _____ **DATE** 29/03/2023
- CONTACT PERSON for this return** MANAGER **OF** QUARRIES
- NAME** (Block letters) MUHAMMAD YUNUSA **Telephone** 0423832077

Extractive Materials Return

2021-2022



Regional
NSW

Form S1 – Period Ending 30 June 2022

Sales During 2021-2022

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
Virgin Materials		
Crushed Coarse Aggregates		
Over 75mm		
Over 30mm to 75mm		
5mm to 30mm		
Under 5mm		
Natural Sand		
Manufactured Sand		
Prepared Road Base & Sub Base		206,358
Other Unprocessed Materials		
Recycled Materials		
Crushed Coarse Aggregates		
Over 75mm		
Over 30mm to 75mm		
5mm to 30mm		
Under 5mm		
Natural Sand		
Manufactured Sand		
Prepared Road Base & Sub Base		34,111
Other Unprocessed Materials		
River Gravel		
Over 30mm		201.56
5mm to 30mm		290,931
Under 5mm		
Construction Sand	Excluding Industrial	205,561
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		737,163
Gross Value (\$) of all Sales		\$16,336,518
Type of Material		CONGLOMERATE
Number of Full-Time Equivalent (FTE) Employees	Employees: 17	Contractors: 10

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

Table 2E: Total Number of Laden Trucks

TERALBA QUARRY						Month:		Jan-22		
		Daily Total		Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Westwards	Eastwards	
									Daily	Daily
Limits				326	6pm to 5am	5am to 6am	6am to 7am	7am to 6pm	241	85
Actuals										
1	-	-	-	-	-	-	-	-	-	
2	-	-	-	-	-	-	-	-	-	
3	-	-	-	-	-	-	-	-	-	
4	29	0	1	4	6	27	2			
5	31	2	0	4	7	19	12			
6	28	2	0	2	5	12	16			
7	21	2	0	6	4	15	6			
8	4	0	0	0	2	4	0			
9	-	-	-	-	-	-	-			
10	61	0	5	3	13	37	24			
11	103	4	0	12	14	66	37			
12	107	2	1	8	17	78	29			
13	89	4	0	14	13	62	27			
14	101	3	1	15	13	60	41			
15	13	2	0	5	3	12	1			
16	-	-	-	-	-	-	-			
17	105	1	3	9	15	87	18			
18	114	4	0	20	18	94	20			
19	39	6	0	4	6	28	11			
20	65	4	0	4	10	49	16			
21	96	4	1	11	13	64	32			
22	20	5	0	3	6	19	1			
23	-	-	-	-	-	-	-			
24	121	0	4	14	14	82	39			
25	152	5	0	14	19	123	29			
26	-	-	-	-	-	-	-			
27	115	4	0	17	14	75	40			
28	150	4	1	15	19	93	57			
29	33	4	0	8	8	27	6			
30	-	-	-	-	-	-	-			
31	200	2	5	14	20	134	66			

1797

1267

530

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

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

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

TERALBA QUARRY		Month:		Jan-22
		Westwards		Eastwards
		Max Hourly		Max Hourly
Limits*		12		0
Actuals				
1		-		-
2		-		-
3		-		-
4		1		-
5		0		-
6		0		-
7		0		-
8		0		-
9		-		-
10		5		-
11		0		-
12		1		-
13		0		-
14		1		-
15		0		-
16		-		-
17		3		-
18		0		-
19		0		-
20		0		-
21		1		-
22		0		-
23		-		-
24		4		-
25		0		-
26		-		-
27		0		-
28		1		-
29		0		-
30		-		-
31		5		-

* Condition 2 (9)

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

TERALBA QUARRY		Month:		Jan-22
		Westwards**		Eastwards**
		Max Hourly		Max Hourly
Limits*		28		8
Actuals				
1		-		-
2		-		-
3		-		-
4		4		0
5		4		0
6		2		1
7		4		2
8		0		0
9		-		-
10		2		1
11		9		3
12		8		0
13		12		2
14		9		6
15		5		0
16		-		-
17		9		0
18		19		1
19		4		0
20		4		0
21		9		2
22		3		0
23		-		-
24		11		3
25		14		0
26		-		-
27		11		6
28		13		2
29		7		1
30		-		-
31		10		4

* 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-22				
		Daily Total		Westwards			Eastwards		
				Daily	Max Hourly		Daily	Max Hourly	
Limits				305	220		20	85	8
Actuals									
1		-		-		-		-	
2		-		-		-		-	
3		-		-		-		-	
4		24		22		5		2	1
5		24		13		5		12	3
6		23		8		3		15	4
7		13		9		3		4	2
8		4		4		2		0	0
9		-		-		-		-	-
10		53		30		8		23	5
11		87		53		8		34	7
12		95		66		15		29	5
13		70		45		11		25	8
14		81		46		8		35	7
15		5		4		2		1	1
16		-		-		-		-	-
17		92		74		12		18	4
18		89		70		15		19	4
19		29		18		4		11	2
20		56		40		8		16	5
21		80		50		10		30	5
22		11		10		5		1	1
23		-		-		-		-	-
24		103		67		10		36	8
25		133		104		15		29	5
26		-		-		-		-	-
27		94		60		12		34	6
28		129		74		11		55	8
29		20		15		7		5	2
30		-		-		-		-	-
31		179		117		15		62	8

** 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-2022		-		-		-
02-January-2022		-		-		-
03-January-2022		-		-		-
04-January-2022		145.38		629.72		47.78
05-January-2022		258.66		269.96		128.12
06-January-2022		103.08		246.20		242.00
07-January-2022		98.08		15.40		0.00
08-January-2022		195.08		365.48		111.62
09-January-2022		-		-		-
10-January-2022		504.10		549.86		524.62
11-January-2022		707.46		1182.60		992.96
12-January-2022		1787.34		549.46		607.60
13-January-2022		1102.84		734.66		443.04
14-January-2022		713.46		887.32		1011.56
15-January-2022		90.98		330.16		6.02
16-January-2022		-		-		-
17-January-2022		602.64		1858.56		362.92
18-January-2022		1048.62		1676.98		352.80
19-January-2022		223.22		617.56		274.50
20-January-2022		670.54		820.80		245.52
21-January-2022		314.28		1558.20		516.82
22-January-2022		97.40		512.40		15.76
23-January-2022		-		-		-
24-January-2022		788.20		1649.80		637.50
25-January-2022		2363.68		1049.22		374.68
26-January-2022		-		-		-
27-January-2022		799.56		1046.08		1019.18
28-January-2022		1816.44		862.00		1328.84
29-January-2022		292.08		447.84		92.50
30-January-2022		-		-		-
31-January-2022		2755.74		1134.98		1663.94
Totals		17478.86		18995.24		11000.28

1 - Northwest

47474.38

2 - Southwest

3 - Eastward

Table 2E: Total Number of Laden Trucks

TERALBA QUARRY						Month:	Feb-22				
		Daily Total		Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Max Hourly Daily		Westwards Daily		Eastwards Daily
				6pm to 5am	5am to 6am	6am to 7am	7am to 6pm				
Limits		326		6	12	28	20		241		85
Actuals											
	1	173		5	0	17	20		110		63
	2	96		5	0	11	14		62		34
	3	60		5	0	10	7		41		19
	4	72		3	0	8	13		50		22
	5	13		3	0	3	3		13		0
	6	-		-	-	-	-		-		-
	7	62		2	4	9	9		44		18
	8	99		5	0	5	14		68		31
	9	159		5	0	16	20		122		37
	10	147		4	1	13	17		116		31
	11	107		5	0	8	17		89		18
	12	29		2	0	8	6		29		0
	13	-		-	-	-	-		-		-
	14	135		3	4	15	20		115		20
	15	166		4	1	12	20		132		34
	16	214		4	0	24	20		142		72
	17	124		5	0	13	19		101		23
	18	103		5	0	11	14		86		17
	19	32		3	1	6	6		31		1
	20	-		-	-	-	-		-		-
	21	73		2	2	8	14		56		17
	22	90		5	0	12	13		72		18
	23	82		4	0	5	14		45		37
	24	69		5	1	5	12		58		11
	25	62		5	0	2	10		35		27
	26	4		0	0	0	4		4		0
	27	-		-	-	-			-		-
	28	66		2	4	6	10		47		19

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

TERALBA QUARRY			Month:		Feb-22			
		Daily Total		Westwards			Eastwards	
				Daily	Max Hourly		Daily	Max Hourly
Limits				66	66		6	0
Actuals								
1	6	6	5	-	-			
2	6	6	5	-	-			
3	6	6	5	-	-			
4	4	4	3	-	-			
5	3	3	3	-	-			
6	-	-	-	-	-			
7	2	2	2	-	-			
8	6	6	5	-	-			
9	6	6	5	-	-			
10	5	5	4	-	-			
11	6	6	5	-	-			
12	3	3	2	-	-			
13	-	-	-	-	-			
14	3	3	3	-	-			
15	5	5	4	-	-			
16	4	4	4	-	-			
17	6	6	5	-	-			
18	6	6	5	-	-			
19	4	4	3	-	-			
20	-	-	-	-	-			
21	2	2	2	-	-			
22	6	6	5	-	-			
23	4	4	4	-	-			
24	6	6	5	-	-			
25	6	6	5	-	-			
26	0	0	0	-	-			
27	-	-	-	-	-			
28	2	2	2	-	-			

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

TERALBA QUARRY		Month:		Feb-22		
		Westwards			Eastwards	
		Max Hourly			Max Hourly	
Limits*		12			0	
Actuals						
1		0			-	
2		0			-	
3		0			-	
4		0			-	
5		0			-	
6		-			-	
7		4			-	
8		0			-	
9		0			-	
10		1			-	
11		0			-	
12		0			-	
13		-			-	
14		4			-	
15		1			-	
16		0			-	
17		0			-	
18		0			-	
19		1			-	
20		-			-	
21		2			-	
22		0			-	
23		0			-	
24		1			-	
25		0			-	
26		0			-	
27		-			-	
28		4			-	
					-	
					-	
					-	
					-	

* Condition 2 (9)

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

TERALBA QUARRY		Month:		Feb-22	
		Westwards**		Eastwards**	
		Max Hourly		Max Hourly	
Limits*		28		8	
Actuals					
1		13		4	
2		10		1	
3		7		3	
4		7		1	
5		3		0	
6		-		-	
7		7		2	
8		5		0	
9		13		3	
10		13		0	
11		7		1	
12		8		0	
13		-		-	
14		14		1	
15		12		0	
16		16		8	
17		10		3	
18		10		1	
19		6		0	
20		-		-	
21		7		1	
22		10		2	
23		5		0	
24		5		0	
25		2		0	
26		0		0	
27		-		-	
28		6		0	

* 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-22			
		Daily Total		Westwards			Eastwards	
			Daily	Max Hourly		Daily	Max Hourly	
Limits			305	220	20	85	8	
Actuals								
	1	150	91	13	59	8		
	2	79	46	12	33	7		
	3	44	28	5	16	4		
	4	60	39	10	21	6		
	5	7	7	3	0	0		
	6	-	-	-	-	-		
	7	47	31	8	16	4		
	8	88	57	9	31	7		
	9	137	103	16	34	8		
	10	128	97	14	31	7		
	11	93	76	13	17	6		
	12	18	18	6	0	0		
	13	-	-	-	-	-		
	14	113	94	16	19	4		
	15	148	114	19	34	7		
	16	186	122	15	64	8		
	17	105	85	18	20	3		
	18	86	70	12	16	4		
	19	21	20	6	1	1		
	20	-	-	-	-	-		
	21	61	45	12	16	4		
	22	72	56	11	16	4		
	23	73	36	7	37	7		
	24	57	46	12	11	3		
	25	54	27	8	27	6		
	26	4	4	2	0	0		
	27	-	-	-	-	-		
	28	54	35	9	19	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-February-2022		1700.14		1373.68	1175.40
02-February-2022		763.30		1040.52	807.28
03-February-2022		486.94		644.04	450.36
04-February-2022		498.22		815.02	445.34
05-February-2022		30.48		405.48	0.00
06-February-2022		-		-	-
07-February-2022		413.44		807.98	383.04
08-February-2022		723.68		799.86	581.70
09-February-2022		1880.34		1513.16	648.08
10-February-2022		1351.16		2100.60	452.30
11-February-2022		1063.74		1257.40	357.14
12-February-2022		578.26		384.68	0.00
13-February-2022		-		-	-
14-February-2022		1971.28		1260.10	359.96
15-February-2022		2067.80		1351.24	711.50
16-February-2022		1513.28		1896.96	1749.54
17-February-2022		1088.44		1486.92	545.00
18-February-2022		698.72		1519.44	336.44
19-February-2022		129.06		478.40	12.74
20-February-2022		-		-	-
21-February-2022		462.66		995.26	370.64
22-February-2022		830.96		1241.36	481.38
23-February-2022		717.34		258.54	612.26
24-February-2022		605.66		713.34	242.30
25-February-2022		138.68		754.82	483.22
26-February-2022		143.14		0.00	0.00
27-February-2022		-		-	-
28-February-2022		572.54		766.00	359.32
Totals		20429.26		23864.80	11564.94

1 - Northwest
2 - Southwest
3 - Eastward

55859.00

Table 2E: Total Number of Laden Trucks

TERALBA QUARRY						Month:		Mar-22	
		Daily Total		Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Westwards Daily	Eastwards Daily
				6pm to 5am	5am to 6am	6am to 7am	7am to 6pm		
				Limits	326	6	12		
Actuals									
		1	31	3	1	2	6	19	12
		2	10	0	1	1	2	5	5
		3	17	0	0	0	6	12	5
		4	26	3	0	3	4	19	7
		5	0	0	0	0	0	0	0
		6	-	-	-	-	-	-	-
		7	33	2	5	5	4	26	7
		8	19	2	0	1	3	13	6
		9	62	2	0	5	9	45	17
		10	150	6	0	9	18	94	56
		11	191	5	0	21	20	158	33
		12	81	5	0	8	15	68	13
		13	-	-	-	-	-	-	-
		14	157	1	6	15	20	117	40
		15	159	6	0	9	19	127	32
		16	159	6	0	12	20	118	41
		17	139	6	0	10	20	92	47
		18	131	6	0	11	20	92	39
		19	26	3	0	9	4	26	0
		20	-	-	-	-	-	-	-
		21	103	2	4	11	16	83	20
		22	143	4	0	10	20	103	40
		23	146	4	0	15	20	93	53
		24	62	4	0	8	10	53	9
		25	49	4	1	1	10	33	16
		26	11	3	0	2	3	8	3
		27	-	-	-	-	-	-	-
		28	92	2	4	7	15	54	38
		29	42	5	0	5	8	21	21
		30	60	3	0	5	10	20	40
31	46	2	0	6	9	38	8		

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

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

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

TERALBA QUARRY		Month:		Mar-22
		Westwards		Eastwards
		Max Hourly		Max Hourly
Limits*		12		0
Actuals				
1		1		-
2		1		-
3		0		-
4		0		-
5		0		-
6		-		-
7		5		-
8		0		-
9		0		-
10		0		-
11		0		-
12		0		-
13		-		-
14		6		-
15		0		-
16		0		-
17		0		-
18		0		-
19		0		-
20		-		-
21		4		-
22		0		-
23		0		-
24		0		-
25		1		-
26		0		-
27		-		-
28		4		-
29		0		-
30		0		-
31		0		-

* Condition 2 (9)

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

TERALBA QUARRY		Month:		Mar-22	
		Westwards**		Eastwards**	
		Max Hourly		Max Hourly	
Limits*		28		8	
Actuals					
1		2		0	
2		1		0	
3		0		0	
4		3		0	
5		0		0	
6		-		-	
7		5		0	
8		1		0	
9		5		0	
10		8		1	
11		20		1	
12		6		2	
13		-		-	
14		15		0	
15		7		2	
16		10		2	
17		8		2	
18		10		1	
19		9		0	
20		-		-	
21		10		1	
22		9		1	
23		14		1	
24		8		0	
25		1		0	
26		2		0	
27		-		-	
28		6		1	
29		4		1	
30		5		0	
31		6		0	

* 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-22	
	Daily Total	Westwards		Eastwards	
		Daily	Max Hourly	Daily	Max Hourly
Limits	305	220	20	85	8
Actuals					
1	24	12	3	12	3
2	8	3	2	5	2
3	17	12	4	5	3
4	19	12	3	7	1
5	0	0	0	0	0
6	-	-	-	-	-
7	21	14	3	7	2
8	16	10	2	6	2
9	50	33	6	17	3
10	134	79	10	55	8
11	164	132	18	32	5
12	67	56	14	11	3
13	-	-	-	-	-
14	135	95	13	40	8
15	143	113	15	30	5
16	140	101	16	39	7
17	122	77	14	45	8
18	114	76	14	38	7
19	14	14	4	0	0
20	-	-	-	-	-
21	86	67	14	19	4
22	128	89	14	39	6
23	126	74	12	52	8
24	49	40	9	9	2
25	42	26	8	16	5
26	5	2	1	3	2
27	-	-	-	-	-
28	79	42	9	37	8
29	31	11	4	20	5
30	52	12	5	40	8
31	37	29	6	8	4

** 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-March-2022		203.28		311.98		267.42
02-March-2022		104.20		12.98		95.88
03-March-2022		71.26		310.96		107.72
04-March-2022		83.54		381.32		88.98
05-March-2022		0.00		0.00		0.00
06-March-2022		-		-		-
07-March-2022		7.50		517.42		132.64
08-March-2022		136.68		72.96		138.28
09-March-2022		242.3.4		672.96		220.92
10-March-2022		1178.84		1443.90		1278.90
11-March-2022		2720.18		1783.08		566.16
12-March-2022		1332.84		804.74		241.80
13-March-2022		-		-		-
14-March-2022		1408.10		1767.32		486.28
15-March-2022		1842.92		1558.92		573.28
16-March-2022		1469.04		1585.56		714.20
17-March-2022		1159.30		1246.60		835.02
18-March-2022		883.02		1461.68		715.90
19-March-2022		393.12		409.26		0.00
20-March-2022		-		-		-
21-March-2022		1217.34		1003.80		407.52
22-March-2022		1244.16		1535.98		1004.04
23-March-2022		919.98		1672.62		1385.32
24-March-2022		433.24		949.18		228.58
25-March-2022		75.36		801.86		244.28
26-March-2022		32.38		214.80		37.00
27-March-2022		-		-		-
28-March-2022		642.26		678.84		828.18
29-March-2022		308.72		274.08		483.44
30-March-2022		400.66		112.26		689.32
31-March-2022		328.70		611.98		155.90
Totals		18596.62		22197.04		11926.96

1 - Northwest

52720.62

2 - Southwest

3 - Eastward

Table 2E: Total Number of Laden Trucks

TERALBA QUARRY						Month:	Apr-22				
		Daily Total		Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Max Hourly Daily		Westwards Daily		Eastwards Daily
				6pm to 5am	5am to 6am	6am to 7am	7am to 6pm				
Limits		326		6	12	28	20		241		85
Actuals											
	1	53		2	0	3	9		45		8
	2	26		2	0	9	15		25		1
	3	-		-	-	-	-		-		-
	4	118		3	2	6	18		84		34
	5	166		3	0	8	13		110		56
	6	105		6	0	15	12		78		27
	7	44		6	0	5	5		27		17
	8	42		0	0	2	6		31		11
	9	0		0	0	0	0		0		0
	10	-		-	-	-	-		-		-
	11	162		6	0	8	16		116		46
	12	148		6	0	11	12		96		52
	13	91		5	0	8	10		61		30
	14	94		5	0	5	8		40		54
	15	-		-	-	-	-		-		-
	16	-		-	-	-	-		-		-
	17	-		-	-	-	-		-		-
	18	-		-	-	-	-		-		-
	19	119		3	0	8	12		75		44
	20	176		3	0	11	12		105		71
	21	175		3	0	10	16		117		58
	22	75		4	0	10	10		50		10
	23	19		3	0	5	4		17		2
	24	-		-	-	-	-		-		-
	25	-		-	-	-	-		-		-
	26	105		3	3	6	12		76		29
	27	134		6	0	5	14		92		42
	28	138		6	0	9	12		82		56
	29	133		5	0	12	10		93		40
	30	38		4	0	8	7		34		4

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

TERALBA QUARRY			Month:		Apr-22			
		Daily Total		Westwards			Eastwards	
				Daily	Max Hourly		Daily	Max Hourly
Limits				66	6		0	0
Actuals								
1		2		2		-	-	
2		2		2		-	-	
3		-		-		-	-	
4		3		3		-	-	
5		4		4		3	-	
6		6		6		5	-	
7		7		7		6	-	
8		0		0		0	-	
9		0		0		0	-	
10		-		-		-	-	
11		6		6		6	-	
12		6		6		6	-	
13		6		6		5	-	
14		5		5		5	-	
15		-		-		-	-	
16		-		-		-	-	
17		-		-		-	-	
18		-		-		-	-	
19		3		3		1	-	
20		3		3		3	-	
21		3		3		2	-	
22		4		4		3	-	
23		3		3		3	-	
24		-		-		-	-	
25		-		-		-	-	
26		3		3		3	-	
27		7		7		6	-	
28		7		7		6	-	
29		5		5		4	-	
30		5		5		4	-	
						-	-	

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

TERALBA QUARRY		Month:		Apr-22	
		Westwards		Eastwards	
		Max Hourly		Max Hourly	
Limits*		12		0	
Actuals					
1		0		-	
2		0		-	
3		-		-	
4		2		-	
5		0		-	
6		0		-	
7		0		-	
8		0		-	
9		0		-	
10		-		-	
11		0		-	
12		0		-	
13		0		-	
14		0		-	
15		-		-	
16		-		-	
17		-		-	
18		-		-	
19		0		-	
20		0		-	
21		0		-	
22		0		-	
23		0		-	
24		-		-	
25		-		-	
26		3		-	
27		0		-	
28		0		-	
29		0		-	
30		0		-	
				-	

* Condition 2 (9)

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

TERALBA QUARRY		Month:		Apr-22
		Westwards**		Eastwards**
		Max Hourly		Max Hourly
Limits*		28		8
Actuals				
1		3		0
2		9		0
3		-		-
4		5		1
5		8		3
6		15		0
7		5		0
8		2		1
9		0		0
10		-		-
11		8		5
12		11		3
13		8		1
14		5		1
15		-		-
16		-		-
17		-		-
18		-		-
19		8		1
20		11		3
21		10		1
22		10		1
23		5		1
24		-		-
25		-		-
26		6		1
27		5		5
28		9		4
29		12		3
30		8		0

* 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-22			
		Daily Total		Westwards			Eastwards	
			Daily	Max Hourly		Daily	Max Hourly	
Limits		305		220	20		85	8
Actuals								
	1	48	40	4	8	2		
	2	15	14	5	1	1		
	3	-	-	-	-	-		
	4	97	74	13	33	5		
	5	143	92	13	51	8		
	6	84	57	12	27	4		
	7	32	15	4	17	5		
	8	39	28	6	11	2		
	9	0	0	0	0	0		
	10	-	-	-	-	-		
	11	143	102	16	41	8		
	12	128	79	12	49	8		
	13	76	47	10	29	8		
	14	83	30	6	53	8		
	15	-	-	-	-	-		
	16	-	-	-	-	-		
	17	-	-	-	-	-		
	18	-	-	-	-	-		
	19	107	64	12	43	8		
	20	159	91	12	68	8		
	21	161	104	16	57	8		
	22	60	50	10	10	3		
	23	10	9	4	1	1		
	24	-	-	-	-	-		
	25	-	-	-	-	-		
	26	91	64	12	27	8		
	27	117	80	14	37	7		
	28	118	66	12	52	8		
	29	113	76	10	37	7		
	30	25	21	7	4	3		

** 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-April-2022		456.92		684.84		180.46
02-April-2022		101.94		656.10		15.84
03-April-2022		-		-		-
04-April-2022		1130.70		872.84		535.12
05-April-2022		1598.04		1310.80		1153.80
06-April-2022		1258.94		947.92		581.54
07-April-2022		427.14		293.00		383.00
08-April-2022		581.92		163.96		156.88
09-April-2022		0.00		0.00		0.00
10-April-2022		-		-		-
11-April-2022		1117.60		1657.02		859.94
12-April-2022		1353.92		1094.82		1078.96
13-April-2022		952.04		649.56		529.22
14-April-2022		597.22		516.84		888.90
15-April-2022		-		-		-
16-April-2022		-		-		-
17-April-2022		-		-		-
18-April-2022		-		-		-
19-April-2022		1369.38		727.90		1155.38
20-April-2022		1087.44		1596.08		2008.80
21-April-2022		2101.86		1273.42		1381.98
22-April-2022		803.18		989.32		272.78
23-April-2022		163.94		383.70		71.10
24-April-2022		-		-		-
25-April-2022		-		-		-
26-April-2022		712.14		1118.58		655.32
27-April-2022		955.44		1354.30		870.78
28-April-2022	948.20	1390.66	1158.92			
29-April-2022	1176.02	1078.44	841.14			
30-April-2022	276.90	541.68	46.78			
Totals		19170.88		19301.78		14826.64

1 - Northwest
2 - Southwest
3 - Eastward

53299.30

Table 2E: Total Number of Laden Trucks

TERALBA QUARRY						Month:	May-22		
		Daily Total		Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Westwards Daily	Eastwards Daily
				6pm to 5am	5am to 6am	6am to 7am	7am to 6pm		
Limits		326		6	12	28	20	241	85
Actuals									
	1	-		-	-	-	-	-	-
	2	125		1	4	5	11	87	38
	3	158		4	2	18	20	124	34
	4	172		6	0	6	20	111	61
	5	100		5	0	6	14	75	25
	6	134		5	0	9	13	101	33
	7	35		4	0	8	7	28	7
	8	-		-	-	-	-	-	-
	9	116		2	4	12	12	80	36
	10	148		5	0	7	20	87	61
	11	178		5	0	14	20	105	53
	12	89		6	0	5	11	54	35
	13	61		6	0	4	11	48	13
	14	21		4	2	6	3	21	0
	15	-		-	-	-	-	-	-
	16	151		1	6	9	19	106	45
	17	135		4	0	12	19	78	57
	18	155		5	0	12	20	108	47
	19	159		4	0	14	20	111	48
	20	131		5	0	17	17	88	43
	21	23		4	0	8	11	17	6
	22	-		-	-	-	-	-	-
	23	64		2	5	9	11	56	8
	24	55		5	0	7	6	45	10
	25	107		5	0	8	16	64	43
	26	141		4	0	6	17	90	51
	27	116		4	0	10	19	91	25
	28	23		2	0	5	4	21	2
	29	-		-	-	-	-	-	-
	30	118		2	3	10	14	67	51
	31	186		4	0	13	20	116	70

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

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

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

TERALBA QUARRY		Month:		May-22		
		Westwards			Eastwards	
		Max Hourly			Max Hourly	
Limits*		12			0	
Actuals						
1		-			-	
2		4			-	
3		2			-	
4		0			-	
5		0			-	
6		0			-	
7		0			-	
8		-			-	
9		4			-	
10		0			-	
11		0			-	
12		0			-	
13		0			-	
14		2			-	
15		-			-	
16		6			-	
17		0			-	
18		0			-	
19		0			-	
20		0			-	
21		0			-	
22		-			-	
23		5			-	
24		0			-	
25		0			-	
26		0			-	
27		0			-	
28		0			-	
29		-			-	
30		3			-	
31		0			-	

* Condition 2 (9)

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

TERALBA QUARRY		Month:		May-22	
		Westwards**		Eastwards**	
		Max Hourly		Max Hourly	
Limits*		28		8	
Actuals					
1		-		-	
2		7		5	
3		16		2	
4		5		3	
5		9		2	
6		9		1	
7		7		1	
8		-		-	
9		12		0	
10		7		4	
11		8		2	
12		2		5	
13		8		0	
14		5		0	
15		-		-	
16		12		0	
17		12		1	
18		11		1	
19		10		4	
20		12		5	
21		5		3	
22		-		-	
23		8		1	
24		6		1	
25		7		1	
26		6		0	
27		10		2	
28		5		0	
29		-		-	
30		7		3	
31		13		4	

* 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-22			
		Daily Total		Westwards			Eastwards	
			Daily	Max Hourly		Daily	Max Hourly	
Limits		305		220	20		85	8
Actuals								
1		-		-	-		-	-
2		108		75	11		33	6
3		134		102	17		32	8
4		151		93	12		58	8
5		83		60	9		23	4
6		117		85	13		32	7
7		23		17	6		6	2
8		-		-	-		-	-
9		98		62	12		36	7
10		127		70	12		57	8
11		158		105	16		53	8
12		73		43	8		30	6
13		46		33	7		13	4
14		8		8	7		0	0
15		-		-	-		-	-
16		132		87	14		45	8
17		117		61	11		56	8
18		137		91	13		46	7
19		139		95	14		44	8
20		108		70	11		38	8
21		11		8	5		3	1
22		-		-	-		-	-
23		48		41	10		7	2
24		42		33	6		9	3
25		93		51	11		42	7
26		130		79	11		51	7
27		99		76	15		23	4
28		15		13	4		2	1
29		-		-	-		-	-
30		103		55	10		48	7
31		164		98	15		66	8

** 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-2022		-		-	-
02-May-2022		1050.66		1146.92	660.48
03-May-2022		834.80		2095.52	762.50
04-May-2022		871.90		1685.62	963.64
05-May-2022		628.02		1221.10	467.44
06-May-2022		911.20		1614.22	560.00
07-May-2022		588.06		329.44	140.28
08-May-2022		-		-	-
09-May-2022		1224.22		1041.38	667.32
10-May-2022		1158.54		1235.08	1498.78
11-May-2022		1603.18		1435.70	978.40
12-May-2022		507.14		740.04	575.86
13-May-2022		434.64		742.86	199.44
14-May-2022		65.42		582.20	0.00
15-May-2022		-		-	-
16-May-2022		903.78		1740.40	977.54
17-May-2022		541.02		1452.64	1123.98
18-May-2022		1169.56		1502.46	764.16
19-May-2022		2015.16		903.78	787.64
20-May-2022		1123.02		1121.92	707.86
21-May-2022		258.18		212.62	81.92
22-May-2022		-		-	-
23-May-2022		849.54		604.72	167.62
24-May-2022		429.56		686.60	230.48
25-May-2022		695.86		729.80	586.58
26-May-2022		1424.68		941.74	1240.02
27-May-2022		905.64		1458.70	359.92
28-May-2022		364.16		235.58	47.92
29-May-2022		-		-	-
30-May-2022		629.98		1075.90	847.18
31-May-2022		1194.68		1911.46	1079.76
Totals		22382.60		28448.40	16476.72

1 - Northwest
2 - Southwest
3 - Eastward

67307.72

Table 2E: Total Number of Laden Trucks

TERALBA QUARRY							Month:	Jun-22	
		Daily Total		Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Westwards Daily	Eastwards Daily
				6pm to 5am	5am to 6am	6am to 7am	7am to 6pm		
Limits		326		6	12	28	20	241	85
Actuals									
	1	143		6	0	10	18	105	38
	2	145		5	1	8	20	116	29
	3	142		5	0	14	19	118	24
	4	33		4	0	9	20	8	12
	5	-		-	-	-	-	-	-
	6	165		1	4	13	20	134	31
	7	174		4	0	15	20	113	61
	8	194		4	0	20	20	126	68
	9	175		5	0	18	20	131	44
	10	169		3	0	17	20	131	38
	11	23		2	0	4	5	18	5
	12	-		-	-	-	-	-	-
	13	-		-	-	-	-	-	-
	14	179		4	0	13	20	155	24
	15	171		4	0	14	20	140	31
	16	192		5	0	13	20	146	46
	17	200		4	0	20	20	139	61
	18	46		3	0	9	10	20	26
	19	-		-	-	-	-	-	-
	20	107		3	2	7	13	80	27
	21	158		4	0	8	19	107	51
	22	126		4	0	11	17	90	36
	23	155		5	0	13	20	117	38
	24	136		5	0	18	16	93	43
	25	26		2	0	7	5	17	9
	26	-		-	-	-	-	-	-
	27	170		3	4	14	20	132	34
	28	137		5	0	14	16	115	22
	29	159		4	0	14	20	132	27
	30	178		4	0	17	20	132	46

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

TERALBA QUARRY			Month:		Jun-22			
		Daily Total		Westwards			Eastwards	
				Daily	Max Hourly		Daily	Max Hourly
Limits				66	66		6	0
Actuals								
1	6	6	4	-	-			
2	5	5	5	-	-			
3	6	6	5	-	-			
4	4	4	2	-	-			
5	-	-	-	-	-			
6	1	1	1	-	-			
7	6	6	4	-	-			
8	5	5	4	-	-			
9	5	5	4	-	-			
10	5	5	3	-	-			
11	3	3	2	-	-			
12	-	-	-	-	-			
13	-	-	-	-	-			
14	5	5	4	-	-			
15	5	5	4	-	-			
16	6	6	5	-	-			
17	5	5	4	-	-			
18	2	2	1	-	-			
19	-	-	-	-	-			
20	3	3	3	-	-			
21	5	5	4	-	-			
22	6	6	4	-	-			
23	6	6	5	-	-			
24	7	7	5	-	-			
25	2	2	2	-	-			
26	-	-	-	-	-			
27	3	3	3	-	-			
28	7	7	5	-	-			
29	6	6	4	-	-			
30	6	6	4	-	-			
				-	-			

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

TERALBA QUARRY		Month:		Jun-22	
		Westwards		Eastwards	
		Max Hourly		Max Hourly	
Limits*		12		0	
Actuals					
1		0		-	
2		1		-	
3		0		-	
4		0		-	
5		-		-	
6		4		-	
7		0		-	
8		0		-	
9		0		-	
10		0		-	
11		0		-	
12		-		-	
13		-		-	
14		0		-	
15		0		-	
16		0		-	
17		0		-	
18		0		-	
19		-		-	
20		3		-	
21		0		-	
22		0		-	
23		0		-	
24		0		-	
25		0		-	
26		-		-	
27		4		-	
28		0		-	
29		0		-	
30		0		-	

* Condition 2 (9)

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

TERALBA QUARRY		Month:		Jun-22	
		Westwards**		Eastwards**	
		Max Hourly		Max Hourly	
Limits*		28		8	
Actuals					
1		9		1	
2		8		0	
3		14		0	
4		6		3	
5		-		-	
6		12		1	
7		12		3	
8		17		3	
9		14		4	
10		14		3	
11		2		2	
12		-		-	
13		-		-	
14		11		2	
15		12		2	
16		11		2	
17		14		5	
18		6		3	
19		-		-	
20		6		1	
21		6		2	
22		9		2	
23		11		2	
24		15		3	
25		7		0	
26		-		-	
27		11		3	
28		12		2	
29		12		2	
30		15		2	

* 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-22			
		Daily Total		Westwards		Eastwards		
				Daily	Max Hourly	Daily	Max Hourly	
Limits		305		220	20	85	8	
Actuals								
1		127		90	15	37	7	
2		131		102	15	29	6	
3		122		98	16	24	4	
4		20		8	3	12	3	
5		-		-	-	-	-	
6		147		117	18	30	7	
7		153		95	14	58	8	
8		169		104	15	65	8	
9		152		112	17	40	6	
10		147		112	17	35	7	
11		16		11	3	5	2	
12		-		-	-	-	-	
13		-		-	-	-	-	
14		161		139	18	22	6	
15		152		123	18	29	6	
16		173		129	18	44	7	
17		175		119	18	56	8	
18		35		12	4	23	6	
19		-		-	-	-	-	
20		94		68	11	27	4	
21		144		95	12	49	7	
22		109		75	12	34	6	
23		136		100	20	36	7	
24		111		71	10	40	6	
25		17		8	2	9	3	
26		-		-	-	-	-	
27		149		115	17	34	6	
28		116		96	16	20	5	
29		139		114	18	25	5	
30		155		111	17	44	8	

** 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-June-2022		723.54		2148.80		695.94
02-June-2022		1476.92		1616.42		591.38
03-June-2022		1728.16		1664.18		500.68
04-June-2022		137.32		412.72		263.54
05-June-2022		-		-		-
06-June-2022		1106.52		2435.66		558.88
07-June-2022		1521.40		1700.86		1357.32
08-June-2022		1177.30		2270.48		1373.94
09-June-2022		1225.10		2502.66		862.92
10-June-2022		2153.50		1678.62		556.18
11-June-2022		228.38		250.74		124.28
12-June-2022		-		-		-
13-June-2022		-		-		-
14-June-2022		1811.18		2069.26		625.36
15-June-2022		1400.82		2608.26		485.52
16-June-2022		1589.20		2148.72		1079.80
17-June-2022		1347.08		2469.86		1126.26
18-June-2022		301.78		360.16		725.18
19-June-2022		-		-		-
20-June-2022		544.14		1685.62		370.66
21-June-2022		1029.60		1901.98		729.24
22-June-2022		1419.28		1008.62		705.80
23-June-2022		1274.88		1631.84		756.22
24-June-2022		909.06		1722.18		999.80
25-June-2022		236.16		257.64		290.12
26-June-2022		-		-		-
27-June-2022		875.60		2704.18		779.86
28-June-2022		561.28		2740.46		414.78
29-June-2022		962.38		2882.68		348.34
30-June-2022		2279.38		1548.28		963.10
Totals		28019.96		44420.88		17285.10

1 - Northwest
2 - Southwest
3 - Eastward

89725.94

Table 2E: Total Number of Laden Trucks

TERALBA QUARRY						Month:		Jul-22	
		Daily Total		Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Westwards	Eastwards
								Daily	Daily
				6pm to 5am	5am to 6am	6am to 7am	7am to 6pm		
Limits		326		6	12	28	20	241	85
Actuals									
	1	100	5	0	15	9	70	30	
	2	16	3	0	4	9	11	5	
	3	-	-	-	-	-	-	-	
	4	47	1	2	9	9	43	4	
	5	29	4	0	4	5	26	3	
	6	35	5	0	1	5	32	3	
	7	47	5	0	0	6	40	7	
	8	67	4	0	8	6	40	27	
	9	14	2	0	4	4	12	2	
	10	-	-	-	-	-	-	-	
	11	55	1	2	3	5	22	33	
	12	97	4	0	5	9	58	39	
	13	120	3	0	16	11	82	38	
	14	71	5	0	10	7	55	16	
	15	86	3	0	4	14	62	24	
	16	46	1	0	15	6	39	7	
	17	-	-	-	-	-	-	-	
	18	180	1	3	16	16	125	55	
	19	150	5	0	16	12	99	51	
	20	96	4	0	8	6	59	37	
	21	113	3	1	12	12	85	28	
	22	74	4	0	8	9	56	18	
	23	26	0	0	2	9	11	13	
	24	-	-	-	-	-	-	-	
	25	118	4	2	14	14	89	29	
	26	115	4	1	11	11	76	39	
	27	126	3	0	14	11	78	48	
	28	164	3	0	16	14	121	43	
	29	129	3	0	16	11	90	39	
	30	53	2	2	11	7	27	26	
31	-	-	-	-	-	-	-		

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

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

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

TERALBA QUARRY		Month:		Jul-22
		Westwards		Eastwards
		Max Hourly		Max Hourly
Limits*		12		0
Actuals				
1		0		-
2		0		-
3		-		-
4		2		-
5		0		-
6		0		-
7		0		-
8		0		-
9		0		-
10		-		-
11		2		-
12		0		-
13		0		-
14		0		-
15		0		-
16		0		-
17		-		-
18		3		-
19		0		-
20		0		-
21		1		-
22		0		-
23		0		-
24		-		-
25		2		-
26		1		-
27		0		-
28		0		-
29		0		-
30		2		-
31		-		-

* Condition 2 (9)

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

TERALBA QUARRY		Month:		Jul-22	
		Westwards**		Eastwards**	
		Max Hourly		Max Hourly	
Limits*		28		8	
Actuals					
1		11		4	
2		3		1	
3		-		-	
4		8		1	
5		4		0	
6		1		0	
7		0		0	
8		8		0	
9		4		0	
10		-		-	
11		3		0	
12		5		0	
13		14		2	
14		9		1	
15		4		0	
16		13		2	
17		-		-	
18		13		3	
19		13		3	
20		7		1	
21		10		2	
22		6		2	
23		2		0	
24		-		-	
25		13		1	
26		10		1	
27		9		5	
28		16		0	
29		11		5	
30		6		5	
31		-		-	

* 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-22				
		Daily Total		Westwards			Eastwards	
				Daily	Max Hourly		Daily	Max Hourly
Limits				305	220		20	85
Actuals								
1	78	52	9	26	6			
2	9	5	2	4	2			
3	-	-	-	-	-			
4	35	32	9	3	1			
5	21	18	5	3	1			
6	28	25	5	3	1			
7	42	35	6	7	2			
8	55	28	6	27	4			
9	8	7	3	2	1			
10	-	-	-	-	-			
11	49	16	3	33	5			
12	88	49	9	39	7			
13	100	64	11	36	8			
14	56	41	7	15	3			
15	78	54	14	24	5			
16	29	24	6	5	2			
17	-	-	-	-	-			
18	160	108	16	52	8			
19	128	80	12	48	8			
20	83	47	6	36	6			
21	95	69	12	26	6			
22	60	44	9	16	4			
23	24	11	4	13	3			
24	-	-	-	-	-			
25	98	70	14	28	5			
26	98	60	11	38	6			
27	107	64	11	43	8			
28	144	101	14	43	8			
29	109	75	11	34	7			
30	37	16	6	21	7			
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-July-2022		977.20		931.10		804.90
02-July-2022		97.60		242.00		57.28
03-July-2022		-		-		-
04-July-2022		834.88		581.90		108.42
05-July-2022		424.66		293.54		47.52
06-July-2022		130.70		793.02		91.40
07-July-2022		179.98		925.34		173.44
08-July-2022		170.88		808.24		464.96
09-July-2022		65.06		305.22		34.50
10-July-2022		-		-		-
11-July-2022		127.64		511.92		626.24
12-July-2022		482.34		909.62		677.16
13-July-2022		802.00		1402.00		852.78
14-July-2022		328.70		999.90		438.12
15-July-2022		476.96		1060.82		438.34
16-July-2022		255.18		1018.30		145.54
17-July-2022		-		-		-
18-July-2022		1287.06		2333.54		1149.38
19-July-2022		1228.84		1119.50		891.84
20-July-2022		443.68		932.50		588.50
21-July-2022		601.48		1753.20		482.16
22-July-2022		590.14		689.30		328.02
23-July-2022		332.50		52.54		410.54
24-July-2022		-		-		-
25-July-2022		305.32		2218.46		653.38
26-July-2022		780.40		1284.80		1020.70
27-July-2022		882.88		1440.48		988.76
28-July-2022		2159.64		1129.16		960.70
29-July-2022		1095.26		1115.82		736.44
30-July-2022		32.60		826.22		411.52
31-July-2022		-		-		-
Totals		15093.58		25678.44		13582.54

1 - Northwest

54354.56

2 - Southwest

3 - Eastward

Table 2E: Total Number of Laden Trucks

TERALBA QUARRY						Month:		Aug-22			
		Daily Total		Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Max Hourly Daily		Westwards Daily		Eastwards Daily
				6pm to 5am	5am to 6am	6am to 7am	7am to 6pm				
Limits		326		6	12	28	20		241		85
Actuals											
1		169		1	3	17	17		131		38
2		205		2	0	20	20		135		70
3		167		4	0	17	15		120		47
4		174		4	2	15	13		119		55
5		138		5	0	13	11		86		52
6		43		4	0	10	9		38		5
7		-		-	-	-	-		-		-
8		167		2	2	18	17		134		33
9		126		4	0	11	15		102		2
10		139		4	0	14	10		89		50
11		127		4	0	15	10		82		45
12		138		5	0	17	11		95		43
13		46		5	0	10	4		28		18
14		-		-	-	-	-		-		-
15		150		2	3	13	13		108		42
16		170		5	0	13	14		116		54
17		196		5	0	19	16		133		63
18		218		4	1	25	15		150		68
19		197		4	0	21	17		151		46
20		48		3	1	10	7		35		13
21		-		-	-	-	-		-		-
22		246		2	4	25	17		186		59
23		196		5	0	20	20		139		57
24		169		2	0	15	16		129		40
25		214		5	0	18	15		142		72
26		173		3	0	18	17		135		41
27		73		1	1	11	8		43		30
28		-		-	-	-	-		-		-
29		212		0	7	18	20		188		24
30		205		6	0	22	17		164		41
31		188		5	0	21	18		152		36

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

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

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

TERALBA QUARRY		Month:		Aug-22	
		Westwards		Eastwards	
		Max Hourly		Max Hourly	
Limits*		12		0	
Actuals					
1		3		-	
2		0		-	
3		0		-	
4		2		-	
5		0		-	
6		0		-	
7		-		-	
8		2		-	
9		0		-	
10		0		-	
11		0		-	
12		0		-	
13		0		-	
14		-		-	
15		4		-	
16		0		-	
17		0		-	
18		1		-	
19		0		-	
20		1		-	
21		-		-	
22		4		-	
23		0		-	
24		0		-	
25		0		-	
26		0		-	
27		1		-	
28		-		-	
29		7		-	
30		0		-	
31		0		-	

* Condition 2 (9)

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

TERALBA QUARRY		Month:		Aug-22	
		Westwards**		Eastwards**	
		Max Hourly		Max Hourly	
Limits*		28		8	
Actuals					
1		17		0	
2		14		6	
3		13		4	
4		13		2	
5		11		2	
6		9		1	
7		-		-	
8		17		1	
9		10		1	
10		11		3	
11		12		3	
12		11		6	
13		8		2	
14		-		-	
15		12		1	
16		13		0	
17		14		5	
18		20		5	
19		16		5	
20		8		2	
21		-		-	
22		25		0	
23		15		5	
24		14		1	
25		11		7	
26		18		0	
27		10		1	
28		-		-	
29		15		3	
30		21		1	
31		17		4	

* 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-22		
		Daily Total		Westwards			Eastwards	
				Daily	Max Hourly		Daily	Max Hourly
Limits		305		220	20		85	8
Actuals								
1		148		110	17		38	7
2		182		118	14		64	8
3		145		102	15		43	7
4		153		102	13		51	8
5		119		69	11		50	8
6		29		25	9		4	1
7		-		-	-		-	-
8		145		113	17		32	5
9		110		87	15		23	4
10		120		73	10		47	7
11		107		65	10		42	7
12		115		78	11		37	8
13		31		15	4		16	4
14		-		-	-		-	-
15		131		90	13		41	7
16		151		97	14		54	7
17		172		114	16		58	8
18		187		124	15		63	8
19		170		129	17		41	7
20		34		23	7		11	3
21		-		-	-		-	-
22		214		156	17		58	8
23		170		118	16		52	8
24		150		111	16		39	7
25		190		125	15		65	8
26		153		112	17		41	6
27		59		30	8		29	6
28		-		-	-		-	-
29		187		166	20		21	5
30		176		136	17		40	6
31		160		128	18		32	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-August-2022		2458.20		1329.02	651.38
02-August-2022		2263.50		1183.90	1305.00
03-August-2022		1638.32		1620.24	1026.56
04-August-2022		1140.40		1923.50	1395.92
05-August-2022		1273.82		1288.04	1134.16
06-August-2022		242.54		852.86	165.12
07-August-2022		-		-	-
08-August-2022		1574.04		2404.14	690.44
09-August-2022		1318.42		1523.10	445.26
10-August-2022		1058.38		1451.34	1241.48
11-August-2022		748.78		1633.66	1226.76
12-August-2022		1115.42		1571.58	1078.50
13-August-2022		175.28		762.88	541.78
14-August-2022		-		-	-
15-August-2022		964.20		1895.14	1008.22
16-August-2022		1644.56		1732.34	1032.26
17-August-2022		1438.60		2327.34	1496.54
18-August-2022		1800.86		2439.08	1409.86
19-August-2022		1898.02		2617.42	1169.90
20-August-2022		491.72		566.80	361.36
21-August-2022		-		-	-
22-August-2022		2571.04		2787.06	949.60
23-August-2022		1046.06		2474.46	1118.94
24-August-2022		1069.52		2323.36	617.20
25-August-2022		1341.88		2496.44	1906.00
26-August-2022		1479.18		2122.94	1071.54
27-August-2022		884.96		583.28	736.18
28-August-2022		-		-	-
29-August-2022		2361.36		3081.52	470.38
30-August-2022		1462.42		2904.96	710.00
31-August-2022		1421.18		3239.46	840.34
Totals		36882.66		51135.86	25800.68

1 - Northwest
2 - Southwest
3 - Eastward

113819.20

Table 2E: Total Number of Laden Trucks

TERALBA QUARRY						Month:		Sep-22			
		Daily Total		Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Max Hourly Daily		Westwards Daily		Eastwards Daily
				6pm to 5am	5am to 6am	6am to 7am	7am to 6pm				
Limits		326		6	12	28	20		241		85
Actuals											
	1	188	4	0	20	16		149	39		
	2	188	5	0	20	17		148	40		
	3	21	2	0	5	4		20	1		
	4	-	-	-	-	-		-	-		
	5	125	1	6	11	18		103	22		
	6	170	5	0	19	14		113	57		
	7	166	4	0	17	14		112	54		
	8	187	5	0	20	15		134	53		
	9	110	4	0	18	10		71	39		
	10	33	3	0	9	4		27	6		
	11	-	-	-	-	-		-	-		
	12	170	0	6	15	17		131	39		
	13	161	3	0	17	17		131	30		
	14	188	2	2	19	18		155	33		
	15	142	4	0	15	13		88	54		
	16	119	4	0	16	15		98	21		
	17	36	3	0	8	7		34	2		
	18	-	-	-	-	-		-	-		
	19	170	1	3	20	19		152	18		
	20	184	3	1	17	15		136	48		
	21	149	5	0	19	14		111	38		
	22	0	0	0	0	0		0	0		
	23	92	3	0	6	8		55	37		
	24	13	2	1	3	3		13	0		
	25	-	-	-	-	-		-	-		
	26	162	2	3	15	16		110	52		
	27	155	2	1	17	17		134	21		
	28	141	2	0	14	18		119	22		
	29	135	5	0	13	15		113	22		
	30	97	3	0	7	10		74	23		

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

TERALBA QUARRY			Month:		Sep-22			
		Daily Total		Westwards			Eastwards	
				Daily	Max Hourly		Daily	Max Hourly
Limits				66	66		6	0
Actuals								
1		6		6	4	-	-	
2		7		7	5	-	-	
3		6		6	3	-	-	
4		-		-	-	-	-	
5		1		1	1	-	-	
6		7		7	5	-	-	
7		6		6	4	-	-	
8		7		7	5	-	-	
9		6		6	4	-	-	
10		3		3	3	-	-	
11		-		-	-	-	-	
12		0		0	0	-	-	
13		6		6	3	-	-	
14		3		3	2	-	-	
15		6		6	4	-	-	
16		5		5	4	-	-	
17		5		5	3	-	-	
18		-		-	-	-	-	
19		1		1	1	-	-	
20		5		5	3	-	-	
21		7		7	5	-	-	
22		0		0	0	-	-	
23		4		4	3	-	-	
24		4		4	2	-	-	
25		-		-	-	-	-	
26		2		2	2	-	-	
27		4		4	2	-	-	
28		4		4	2	-	-	
29		7		7	5	-	-	
30		6		6	3	-	-	
						-	-	

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

TERALBA QUARRY		Month:		Sep-22
		Westwards		Eastwards
		Max Hourly		Max Hourly
Limits*		12		0
Actuals				
1		0		-
2		0		-
3		0		-
4		-		-
5		6		-
6		0		-
7		0		-
8		0		-
9		0		-
10		0		-
11		-		-
12		6		-
13		0		-
14		2		-
15		0		-
16		0		-
17		0		-
18		-		-
19		3		-
20		1		-
21		0		-
22		0		-
23		0		-
24		1		-
25		-		-
26		3		-
27		1		-
28		0		-
29		0		-
30		0		-
				-

* Condition 2 (9)

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

TERALBA QUARRY		Month:		Sep-22
		Westwards**		Eastwards**
		Max Hourly		Max Hourly
Limits*		28		8
Actuals				
	1	20		0
	2	19		1
	3	5		0
	4	-		-
	5	8		3
	6	13		6
	7	15		2
	8	19		1
	9	16		2
	10	8		1
	11	-		-
	12	14		1
	13	16		1
	14	16		3
	15	11		4
	16	11		5
	17	8		0
	18	-		-
	19	19		1
	20	13		4
	21	16		3
	22	0		0
	23	4		2
	24	3		0
	25	-		-
	26	8		7
	27	15		2
	28	12		2
	29	11		2
	30	4		3

* Condition 2 (9)

** Combined Maximum hourly No. of laden trucks = 28

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

TERALBA QUARRY			Month:		Sep-22			
		Daily Total		Westwards			Eastwards	
			Daily	Max Hourly		Daily	Max Hourly	
Limits		305		220	20		85	8
Actuals								
	1	162	123	16	39	7		
	2	161	122	17	39	8		
	3	10	9	4	1	1		
	4	-	-	-	-	-		
	5	107	88	18	19	4		
	6	144	93	14	51	8		
	7	143	91	14	52	8		
	8	160	108	15	52	8		
	9	86	49	10	37	7		
	10	21	16	4	5	2		
	11	-	-	-	-	-		
	12	149	111	17	38	8		
	13	138	109	17	29	7		
	14	165	135	18	30	6		
	15	121	72	13	49	8		
	16	98	82	15	16	3		
	17	23	21	7	2	1		
	18	-	-	-	-	-		
	19	146	129	19	17	3		
	20	161	117	15	44	8		
	21	123	88	14	35	7		
	22	0	0	0	0	0		
	23	82	47	8	35	6		
	24	5	5	3	0	0		
	25	-	-	-	-	-		
	26	142	97	16	45	8		
	27	133	114	17	19	6		
	28	123	103	18	20	4		
	29	115	95	15	20	4		
	30	84	64	10	20	5		

** 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-September-2022		1273.78		3285.28	868.22
02-September-2022		1226.48		3058.24	964.96
03-September-2022		146.02		538.36	15.62
04-September-2022		-		-	-
05-September-2022		553.26		2255.78	542.64
06-September-2022		758.50		2333.82	1344.30
07-September-2022		1642.88		1701.60	1061.40
08-September-2022		1306.16		2539.62	1072.02
09-September-2022		1034.32		1047.88	769.64
10-September-2022		433.00		518.00	106.86
11-September-2022		-		-	-
12-September-2022		1071.06		2520.12	791.48
13-September-2022		1083.56		2583.78	501.84
14-September-2022		2251.62		2009.26	482.78
15-September-2022		996.08		1191.36	1093.64
16-September-2022		594.90		2235.88	559.62
17-September-2022		557.22		530.08	43.28
18-September-2022		-		-	-
19-September-2022		1151.88		3102.22	379.82
20-September-2022		1863.02		1756.70	979.62
21-September-2022		2043.06		1057.26	656.86
22-September-2022		0.00		0.00	0.00
23-September-2022		688.82		830.18	735.70
24-September-2022		129.48		309.30	0.00
25-September-2022		-		-	-
26-September-2022		1253.38		1868.96	1244.80
27-September-2022		2553.58		1252.58	343.84
28-September-2022		2060.46		1169.62	548.44
29-September-2022		1157.82		1902.08	509.28
30-September-2022		994.24		1288.20	558.22
Totals		28824.58		42886.16	16174.88

1 - Northwest
2 - Southwest
3 - Eastward

87885.62

Table 2E: Total Number of Laden Trucks

TERALBA QUARRY							Month:	Oct-22	
		Daily Total		Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Westwards Daily	Eastwards Daily
				6pm to 5am	5am to 6am	6am to 7am	7am to 6pm		
Limits		326		6	12	28	20	241	85
Actuals									
	1	16		4	0	4	3	15	1
	2	-		-	-	-	-	-	-
	3	-		-	-	-	-	-	-
	4	114		2	2	7	14	97	17
	5	142		3	0	15	20	105	37
	6	70		5	0	5	10	59	11
	7	70		4	0	9	11	62	8
	8	11		0	0	3	3	8	3
	9	-		-	-	-	-	-	-
	10	104		3	3	6	14	80	24
	11	168		3	0	18	20	140	28
	12	188		3	1	17	20	159	29
	13	241		4	0	21	20	211	30
	14	193		3	0	24	20	155	38
	15	35		3	2	8	7	28	7
	16	-		-	-	-	-	-	-
	17	143		0	5	15	20	93	32
	18	185		4	0	15	20	156	29
	19	239		4	0	25	20	185	54
	20	110		3	0	14	17	81	29
	21	71		4	0	8	12	59	12
	22	12		2	0	3	2	11	1
	23	-		-	-	-	-	-	-
	24	56		0	5	4	11	31	25
	25	95		3	1	5	14	64	31
	26	179		4	0	19	20	141	38
	27	146		3	0	14	19	137	9
	28	164		5	1	21	20	140	24
	29	52		3	0	9	11	36	16
	30	-		-	-	-	-	-	-
	31	136		1	5	17	16	106	30

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

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

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

TERALBA QUARRY		Month:		Oct-22
		Westwards		Eastwards
		Max Hourly		Max Hourly
Limits*		12		0
Actuals				
1		0		-
2		-		-
3		-		-
4		2		-
5		0		-
6		0		-
7		0		-
8		0		-
9		-		-
10		3		-
11		0		-
12		1		-
13		0		-
14		0		-
15		2		-
16		-		-
17		5		-
18		0		-
19		0		-
20		0		-
21		0		-
22		0		-
23		-		-
24		5		-
25		1		-
26		0		-
27		0		-
28		1		-
29		0		-
30		-		-
31		5		-

* Condition 2 (9)

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

TERALBA QUARRY		Month:		Oct-22
		Westwards**		Eastwards**
		Max Hourly		Max Hourly
Limits*		28		8
Actuals				
1		4		0
2		-		-
3		-		-
4		5		2
5		14		1
6		5		0
7		9		0
8		2		1
9		-		-
10		6		0
11		15		3
12		16		1
13		19		2
14		21		3
15		7		1
16		-		-
17		13		2
18		12		3
19		23		2
20		13		1
21		8		0
22		3		0
23		-		-
24		4		0
25		4		1
26		18		1
27		13		1
28		18		3
29		9		0
30		-		-
31		14		3

* Condition 2 (9)

** Combined Maximum hourly No. of laden trucks = 28

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

TERALBA QUARRY			Month:		Oct-22			
		Daily Total		Westwards			Eastwards	
			Daily	Max Hourly		Daily	Max Hourly	
Limits		305		220	20		85	8
Actuals								
	1	8		7	3		1	1
	2	-		-	-		-	-
	3	-		-	-		-	-
	4	102		87	13		15	3
	5	122		86	15		36	6
	6	59		48	9		11	3
	7	55		47	9		8	2
	8	8		6	3		2	1
	9	-		-	-		-	-
	10	92		68	11		24	5
	11	145		120	18		25	5
	12	165		137	19		28	5
	13	214		211	18		28	5
	14	164		129	17		35	8
	15	21		15	7		6	2
	16	-		-	-		-	-
	17	123		93	15		30	5
	18	165		139	18		26	5
	19	208		156	17		52	7
	20	90		62	13		28	5
	21	57		45	11		12	3
	22	5		2	2		1	1
	23	-		-	-		-	-
	24	47		22	4		25	7
	25	86		56	8		30	7
	26	154		117	15		37	8
	27	127		119	17		8	2
	28	136		115	18		21	4
	29	38		22	7		16	4
	30	-		-	-		-	-
	31	113		86	14		27	4

** 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-October-2022		97.50		451.02	32.04
02-October-2022		-		-	-
03-October-2022		-		-	-
04-October-2022		651.54		1679.38	369.78
05-October-2022		1376.52		1274.86	865.88
06-October-2022		771.90		601.82	224.14
07-October-2022		809.46		1002.44	155.30
08-October-2022		302.12		0.00	35.12
09-October-2022		-		-	-
10-October-2022		719.24		1364.98	421.10
11-October-2022		1439.60		2302.36	488.22
12-October-2022		1270.80		2700.02	632.48
13-October-2022		2385.78		2820.56	458.12
14-October-2022		1755.30		2241.38	678.96
15-October-2022		293.90		692.04	132.92
16-October-2022		-		-	-
17-October-2022		1304.56		1551.14	704.78
18-October-2022		1518.84		2153.00	508.20
19-October-2022		1278.78		2494.14	1136.78
20-October-2022		770.92		1344.68	631.08
21-October-2022		354.24		1056.44	209.32
22-October-2022		96.42		266.76	26.60
23-October-2022		-		-	-
24-October-2022		208.88		691.82	396.26
25-October-2022		1201.10		483.90	472.32
26-October-2022		1247.14		2665.50	837.32
27-October-2022		1502.10		2241.46	236.42
28-October-2022		1746.20		2103.04	483.74
29-October-2022		604.12		617.96	425.46
30-October-2022		-		-	-
31-October-2022		1328.30		1673.48	617.90
Totals		25035.26		36474.18	11180.24

1 - Northwest
2 - Southwest
3 - Eastward

72689.68

Table 2E: Total Number of Laden Trucks

TERALBA QUARRY						Month:	Nov-22				
		Daily Total		Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Max Hourly Daily		Westwards Daily		Eastwards Daily
				6pm to 5am	5am to 6am	6am to 7am	7am to 6pm				
Limits		326		6	12	28	20		241		85
Actuals											
	1	139	4	0	16	19		91	48		
	2	180	4	0	16	20		128	52		
	3	176	4	1	20	20		122	54		
	4	204	4	0	18	20		169	35		
	5	34	2	1	7	7		19	5		
	6	-	-	-	-	-		-	-		
	7	190	1	5	18	20		151	39		
	8	180	4	0	19	20		124	56		
	9	216	4	1	22	20		156	60		
	10	189	4	0	25	20		144	45		
	11	181	5	0	21	20		136	45		
	12	43	2	0	9	10		35	8		
	13	-	-	-	-	-		-	-		
	14	117	1	5	12	17		84	33		
	15	220	3	0	19	20		157	63		
	16	182	3	1	19	20		139	43		
	17	218	4	0	24	20		176	42		
	18	201	4	0	20	20		151	50		
	19	40	3	0	6	8		22	12		
	20	-	-	-	-	-		-	-		
	21	140	0	4	13	20		125	15		
	22	184	3	0	20	20		127	57		
	23	169	2	0	20	20		118	51		
	24	180	3	0	24	20		141	39		
	25	154	3	0	21	20		127	27		
	26	50	3	0	12	9		41	7		
	27	-	-	-	-	-		-	-		
	28	155	1	5	21	20		123	32		
	29	155	3	0	19	20		117	38		
	30	187	2	0	20	20		155	32		

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

TERALBA QUARRY			Month:		Nov-22			
		Daily Total		Westwards			Eastwards	
				Daily	Max Hourly		Daily	Max Hourly
Limits				66	66		6	0
Actuals								
1	6	6	4	-	-			
2	5	5	4	-	-			
3	6	6	4	-	-			
4	7	7	4	-	-			
5	4	4	2	-	-			
6	-	-	-	-	-			
7	1	1	1	-	-			
8	5	5	4	-	-			
9	5	5	4	-	-			
10	5	5	4	-	-			
11	7	7	5	-	-			
12	4	4	2	-	-			
13	-	-	-	-	-			
14	1	1	1	-	-			
15	6	6	3	-	-			
16	5	5	3	-	-			
17	6	6	4	-	-			
18	6	6	4	-	-			
19	6	6	3	-	-			
20	-	-	-	-	-			
21	0	0	0	-	-			
22	5	5	3	-	-			
23	4	4	2	-	-			
24	4	4	3	-	-			
25	5	5	3	-	-			
26	5	5	3	-	-			
27	-	-	-	-	-			
28	1	1	1	-	-			
29	5	5	3	-	-			
30	5	5	3	-	-			

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

TERALBA QUARRY		Month:		Nov-22		
		Westwards			Eastwards	
		Max Hourly			Max Hourly	
Limits*		12			0	
Actuals						
1		0			-	
2		0			-	
3		1			-	
4		0			-	
5		1			-	
6		-			-	
7		5			-	
8		0			-	
9		1			-	
10		0			-	
11		0			-	
12		0			-	
13		-			-	
14		5			-	
15		0			-	
16		1			-	
17		0			-	
18		0			-	
19		0			-	
20		-			-	
21		4			-	
22		0			-	
23		0			-	
24		0			-	
25		0			-	
26		0			-	
27		-			-	
28		5			-	
29		0			-	
30		0			-	

* Condition 2 (9)

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

TERALBA QUARRY		Month:		Nov-22	
		Westwards**		Eastwards**	
		Max Hourly		Max Hourly	
Limits*		28		8	
Actuals					
1		10		6	
2		12		4	
3		13		7	
4		17		1	
5		7		0	
6		-		-	
7		17		1	
8		14		5	
9		22		2	
10		21		4	
11		18		3	
12		9		0	
13		-		-	
14		10		2	
15		15		4	
16		18		1	
17		23		1	
18		17		3	
19		4		2	
20		-		-	
21		13		0	
22		18		2	
23		15		5	
24		21		3	
25		18		3	
26		12		0	
27		-		-	
28		20		1	
29		19		1	
30		18		2	

* Condition 2 (9)

** Combined Maximum hourly No. of laden trucks = 28

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

TERALBA QUARRY			Month:		Nov-22			
		Daily Total		Westwards			Eastwards	
			Daily	Max Hourly		Daily	Max Hourly	
Limits		305		220	20		85	8
Actuals								
	1	117	75	12	42	8		
	2	159	111	17	48	8		
	3	149	102	15	47	8		
	4	179	145	17	34	6		
	5	22	17	5	5	2		
	6	-	-	-	-	-		
	7	166	128	16	38	6		
	8	180	124	15	51	8		
	9	185	127	17	58	7		
	10	158	117	15	41	7		
	11	153	111	18	42	6		
	12	30	22	7	8	3		
	13	-	-	-	-	-		
	14	99	68	13	31	8		
	15	195	136	16	59	8		
	16	157	115	17	42	8		
	17	187	146	17	41	6		
	18	175	128	17	47	8		
	19	28	12	4	16	4		
	20	-	-	-	-	-		
	21	123	108	17	15	4		
	22	145	99	16	46	8		
	23	159	104	18	55	8		
	24	152	116	16	36	8		
	25	128	104	16	24	5		
	26	31	24	7	7	2		
	27	-	-	-	-	-		
	28	128	97	14	31	6		
	29	130	93	17	37	7		
	30	162	132	18	30	5		

** PLEASE NOTE: The Hilgited 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-November-2022		1078.74		1658.32		1028.76
02-November-2022		1881.54		1949.96		1244.52
03-November-2022		1528.90		2011.96		1054.78
04-November-2022		2127.52		2868.00		679.80
05-November-2022		348.88		661.40		138.90
06-November-2022		-		-		-
07-November-2022		2458.70		1919.60		894.54
08-November-2022		1836.30		1706.42		1324.18
09-November-2022		2310.86		2020.60		1227.18
10-November-2022		2483.02		1551.54		1024.94
11-November-2022		1642.48		2473.16		1014.84
12-November-2022		641.22		472.68		185.82
13-November-2022		-		-		-
14-November-2022		895.50		1431.02		793.98
15-November-2022		2603.18		1926.40		1162.56
16-November-2022		2294.82		1627.94		776.84
17-November-2022		3003.90		1821.80		886.34
18-November-2022		1843.30		2286.64		1324.08
19-November-2022		318.20		412.72		380.82
20-November-2022		-		-		-
21-November-2022		1992.08		1396.42		289.34
22-November-2022		1268.10		2246.92		1441.98
23-November-2022		2009.74		1440.50		1247.42
24-November-2022		2661.44		1643.28		811.16
25-November-2022		1993.42		1829.92		762.00
26-November-2022		840.42		619.92		185.02
27-November-2022		-		-		-
28-November-2022		1957.28		1768.44		676.46
29-November-2022		1657.86		1764.46		671.46
30-November-2022		1781.30		2091.42		686.02
Totals		45458.70		43601.44		21913.74

1 - Northwest
2 - Southwest
3 - Eastward

110973.88

Table 2E: Total Number of Laden Trucks

TERALBA QUARRY						Month:		Dec-22	
		Daily Total		Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Max Hourly Daily	Westwards	Eastwards
								Daily	Daily
				6pm to 5am	5am to 6am	6am to 7am	7am to 6pm		
Limits		326		6	12	28	20	241	85
Actuals									
	1	213	3	0	23	20	188	25	
	2	173	3	0	18	20	128	45	
	3	33	3	1	8	5	29	4	
	4	-	-	-	-	-	-	-	
	5	161	1	5	19	20	108	53	
	6	205	3	0	25	20	141	64	
	7	142	4	0	21	19	118	24	
	8	142	4	0	15	17	126	16	
	9	144	4	0	15	18	128	16	
	10	26	2	0	6	5	25	1	
	11	-	-	-	-	-	-	-	
	12	135	1	7	12	19	71	44	
	13	148	4	0	18	17	92	56	
	14	127	4	0	12	14	83	44	
	15	154	5	0	19	18	102	52	
	16	147	5	0	20	18	90	57	
	17	34	2	1	9	4	32	2	
	18	-	-	-	-	-	-	-	
	19	123	2	5	14	16	93	30	
	20	87	3	1	12	13	68	19	
	21	120	2	1	12	18	100	20	
	22	68	4	0	6	10	58	10	
	23	36	4	0	7	6	31	5	
	24	-	-	-	-	-	-	-	
	25	-	-	-	-	-	-	-	
	26	-	-	-	-	-	-	-	
	27	-	-	-	-	-	-	-	
	28	-	-	-	-	-	-	-	
	29	-	-	-	-	-	-	-	
	30	-	-	-	-	-	-	-	
31	-	-	-	-	-	-	-		

2418

1811

587

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

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

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

TERALBA QUARRY		Month:		Dec-22		
		Westwards			Eastwards	
		Max Hourly			Max Hourly	
Limits*		12			0	
Actuals						
1		0			-	
2		0			-	
3		1			-	
4		-			-	
5		5			-	
6		0			-	
7		0			-	
8		0			-	
9		0			-	
10		0			-	
11		-			-	
12		7			-	
13		0			-	
14		0			-	
15		0			-	
16		0			-	
17		1			-	
18		-			-	
19		5			-	
20		1			-	
21		1			-	
22		0			-	
23		0			-	
24		-			-	
25		-			-	
26		-			-	
27		-			-	
28		-			-	
29		-			-	
30		-			-	
31		-			-	

* Condition 2 (9)

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

TERALBA QUARRY		Month:		Dec-22	
		Westwards**		Eastwards**	
		Max Hourly		Max Hourly	
Limits*		28		8	
Actuals					
1		22		1	
2		16		2	
3		8		0	
4		-		-	
5		17		2	
6		21		4	
7		21		1	
8		15		0	
9		13		2	
10		6		0	
11		-		-	
12		9		3	
13		12		6	
14		10		2	
15		17		2	
16		15		5	
17		8		1	
18		-		-	
19		13		1	
20		10		2	
21		11		1	
22		5		1	
23		7		0	
24		-		-	
25		-		-	
26		-		-	
27		-		-	
28		-		-	
29		-		-	
30		-		-	
31		-		-	

* 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-22				
		Daily Total		Westwards			Eastwards		
				Daily	Max Hourly		Daily	Max Hourly	
Limits				305	220		20	85	8
Actuals									
1		185		161	18		24	4	
2		151		108	16		43	7	
3		20		16	5		4	2	
4		-		-	-		-	-	
5		136		85	15		51	8	
6		175		116	17		59	8	
7		114		91	17		23	5	
8		121		105	16		16	4	
9		123		109	15		14	3	
10		16		15	5		1	1	
11		-		-	-		-	-	
12		115		71	14		44	8	
13		124		74	13		50	8	
14		108		66	12		42	8	
15		128		78	13		50	8	
16		120		69	11		51	8	
17		20		19	4		1	1	
18		-		-	-		-	-	
19		102		73	10		29	6	
20		69		52	7		17	6	
21		103		84	15		19	4	
22		57		48	9		9	3	
23		23		18	5		5	2	
24		-		-	-		-	-	
25		-		-	-		-	-	
26		-		-	-		-	-	
27		-		-	-		-	-	
28		-		-	-		-	-	
29		-		-	-		-	-	
30		-		-	-		-	-	
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-December-2022		3081.38		2076.66	437.56
02-December-2022		1867.58		1663.20	860.62
03-December-2022		327.00		633.88	130.42
04-December-2022		-		-	-
05-December-2022		1865.18		1522.92	1096.30
06-December-2022		2336.64		1612.78	1456.50
07-December-2022		1269.88		1842.66	663.46
08-December-2022		1760.08		1442.54	336.78
09-December-2022		2207.60		1184.86	405.70
10-December-2022		465.74		428.92	16.00
11-December-2022		-		-	-
12-December-2022		969.58		1435.84	1155.44
13-December-2022		1739.82		778.36	1416.72
14-December-2022		1351.22		1161.38	1101.86
15-December-2022		1390.52		1728.16	1179.64
16-December-2022		1306.06		1404.18	1573.60
17-December-2022		570.88		415.88	26.82
18-December-2022		-		-	-
19-December-2022		1743.64		1042.30	713.46
20-December-2022		1209.54		976.66	480.04
21-December-2022		1255.34		1914.30	424.20
22-December-2022		871.66		968.00	153.10
23-December-2022		295.82		795.92	103.22
24-December-2022		-		-	-
25-December-2022		-		-	-
26-December-2022		-		-	-
27-December-2022		-		-	-
28-December-2022		-		-	-
29-December-2022		-		-	-
30-December-2022		-		-	-
31-December-2022		-		-	-
Totals		27885.16		25029.40	13731.44

1 - Northwest
2 - Southwest
3 - Eastward

66646.00

Deposited Dust - Year to Date

	Rhondda Road			Myrtle Street			Hillside Crescent			Rodgers Street			York Street		
	Total Insoluble Solids	Ash Fraction	% Ash	Total Insoluble Solids	Ash Fraction	% Ash	Total Insoluble Solids	Ash Fraction	% Ash	Total Insoluble Solids	Ash Fraction	% Ash	Total Insoluble Solids	Ash Fraction	% Ash
Units	g/m ² /month	g/m ² /month		g/m ² /month	g/m ² /month		g/m ² /month	g/m ² /month		g/m ² /month	g/m ² /month		g/m ² /month	g/m ² /month	
EPA Approved Level	4.0			4.0			4.0			4.0			4.0		
January	0.3	0.2	67	1.8	1.0	56	0.4	0.3	75	0.4	0.2	50	0.7	0.5	71
February	0.8	0.4	50	4.9	3.6	73	0.9	0.3	33	0.8	0.3	38	1.2	0.5	42
March	0.6	0.2	67	5.3	4.1	77	0.5	0.1	20	0.3	0.1	33	0.3	0.2	67
April	10.5	9.1	87	1.7	1.0	59	0.4	0.1	25	0.3	0.1	33	1.1	0.6	55
May	1.5	1.2	80	1.1	0.5	45	0.2	0.1	50	0.2	0.2	100	0.5	0.3	60
June	0.8	0.6	75	0.7	0.5	71	0.1	0.1	100	0.3	0.2	67	0.7	0.4	57
July	0.5	0.2	40	2.5	0.6	24	0.3	0.1	33	0.3	0.1	33	0.5	0.2	40
August	1.2	0.8	67	1.8	0.9	50	0.3	0.3	100	0.2	0.2	100	1.3	0.6	46
September	0.7	0.4	57	1.1	0.5	45	0.8	0.2	25	0.4	0.2	50	0.6	0.4	67
October	0.7	0.2	29	0.5	0.3	60	0.5	0.2	40	1.8	0.7	39	0.4	0.3	75
November	1.1	0.3	27	0.6	0.5	83	0.7	0.3	43	0.6	0.3	50	1.4	0.9	64
December	0.4	0.2	50	0.8	0.4	50	0.4	0.2	50	0.5	0.4	80	0.8	0.4	50
Annual Average	1.6	1.2	58	1.9	1.2	58	0.5	0.2	49	0.5	0.3	56	0.8	0.4	58
Annual Maximum	10.5	9.1	87	5.3	4.1	83	0.9	0.3	100	1.8	0.7	100	1.4	0.9	75
Annual Minimum	0.3	0.2	27	0.5	0.3	24	0.1	0.1	20	0.2	0.1	33	0.3	0.2	40

Particulate Matter (PM₁₀) - Year to Date

Date	PM ₁₀ (µg/m ³)	Monthly Average (µg/m ³)	Year to Date Average (µg/m ³)	24-Hr Criteria (µg/m ³)	Comments
4/01/2022	9.3	11.7	9.3	50	
10/01/2022	14.5		11.9	50	
16/01/2022	15.4		13.1	50	
22/01/2022	8.0		11.8	50	
28/01/2022	11.4		11.7	50	
3/02/2022	16.1	14.7	12.5	50	
9/02/2022	13.1		12.5	50	
15/02/2022	21.2		13.6	50	
21/02/2022	15.4		13.8	50	
27/02/2022	7.7		13.2	50	
5/03/2022	11.2	12.2	13.0	50	
11/03/2022	14.0		13.1	50	
17/03/2022	13.1		13.1	50	
23/03/2022	14.8		13.2	50	
29/03/2022	8.0		12.9	50	
4/04/2022	9.8	7.8	12.7	50	
10/04/2022	11.2		12.6	50	
16/04/2022	8.6		12.4	50	
22/04/2022	4.6		12.0	50	
28/04/2022	5.0		11.6	50	
4/05/2022	7.7	5.6	11.4	50	
10/05/2022	3.7		11.1	50	
16/05/2022	6.3		10.9	50	
22/05/2022	4.4		10.6	50	
28/05/2022	6.0		10.4	50	
3/06/2022	10.0	9.2	10.4	50	
9/06/2022	3.1		10.1	50	
15/06/2022	8.4		10.1	50	
21/06/2022	13.1		10.2	50	
27/06/2022	11.3		10.2	50	
3/07/2022	8.8	6.3	10.2	50	
9/07/2022	2.9		9.9	50	
15/07/2022	5.6		9.8	50	
21/07/2022	6.9		9.7	50	
27/07/2022	7.4		9.7	50	
2/08/2022	5.6	5.8	9.5	50	
8/08/2022	7.8		9.5	50	
14/08/2022	2.2		9.3	50	
20/08/2022	7.1		9.2	50	
26/08/2022	6.2		9.2	50	
1/09/2022	11.4	7.2	9.2	50	
7/09/2022	5.8		9.1	50	
13/09/2022	4.5		9.0	50	
19/09/2022	6.9		9.0	50	
25/09/2022	7.5		9.0	50	
1/10/2022	7.9	9.4	8.9	50	
7/10/2022	5.6		8.9	50	
13/10/2022	9.1		8.9	50	
19/10/2022	13.5		9.0	50	
25/10/2022	10.9		9.0	50	
31/10/2022	10.2		9.0	50	
6/11/2022	9.1		9.0	50	

12/11/2022	10.4		9.1	50	
18/11/2022	10.0		9.1	50	
24/11/2022	13.4		9.1	50	
30/11/2022	23.0	13.2	9.4	50	
6/12/2022	19.4		9.6	50	
12/12/2022	14.4		9.7	50	
18/12/2022	8.0		9.6	50	
24/12/2022	7.7		9.6	50	
30/12/2022	12.4	12.4	9.6	50	

Minimum	2.2
Maximum	23.0
Average	9.6
Standard Deviation	4.4
24-hr Criteria	50
Number of Exceedences	0
Annual Average Criteria	25/30*
Annual Average Criteria Exceeded	No
*See explanation on previous page.	

Water - Year to Date**EPL Point 4 : Monthly Monitoring**

	pH	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	<5	-
January	7.13	1830	<5	<5	-
February	7.10	2010	6	<5	-
March	6.96	1360	6	<5	-
April	7.27	1550	23	<5	-
May	7.68	1750	<5	<5	-
June	7.12	1710	7	<5	-
July	7.16	1620	12	<5	-
August	7.15	1530	10	<5	-
September	7.33	1740	16	<5	-
October	7.31	1560	27	<5	-
November	6.96	1700	16	<5	-
December	7.28	1770	11	<5	-

EPL Point 5 : Monitoring During Discharge

	pH	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	-	-
8 March	6.78	664	10	<5	-
4 April	6.88	758	<5	<5	-
2 May	7.10	746	<5	<5	-
1 June	6.85	774	<5	<5	-
4 July	7.00	638	<5	<5	-
1 August	6.79	587	<5	<5	-
5 September	7.86	649	<5	<5	-
10 October	6.92	539	22	6	-
1 November	7.53	776	<5	<5	-

Flow Meter Records

EPA Identifier	Location		Date	Monthly
4	Adit Dam	Water pumped from Adit Dam to Dam G (processing use)	4/01/2022 - 1/02/2022	100.8
			1/02/2022 - 1/03/2022	107.5
			1/03/2022 - 1/04/2022	86.5
			1/04/2022 - 2/05/2022	67.4
			2/05/2022 - 1/06/2022	100.2
			1/06/2022 - 5/07/2022	98.5
			5/07/2022 - 1/08/2022	185.1
			1/08/2022 to 1/09/2022	12.8
			1/09/2022 to 4/10/2022	94.9
			4/10/2022 to 1/11/2022	136.6
			1/11/2022 to 1/12/2022	89.3
			1/12/2022 to 3/01/2023	81.5

EPA Identified Point	Location	Description	Date	Monthly Total (ML)
5	Dam B	Discharge from Dam B (from Quarry)	4/01/2022 - 1/02/2022	2.1
			1/02/2022 - 1/03/2022	0.0
			1/03/2022 - 1/04/2022	2.5
			1/04/2022 - 2/05/2022	13.4
			2/05/2022 - 1/06/2022	1.6
			1/06/2022 - 5/07/2022	0.2
			5/07/2022 - 1/08/2022	34.1
			1/08/2022 to 1/09/2022	1.9
			1/09/2022 to 4/10/2022	0.8
			4/10/2022 to 1/11/2022	1.3
			1/11/2022 to 1/12/2022	0.0
			1/12/2022 to 3/01/2023	0.0

EPA Identified Point	Location	Description	Date	Monthly Total (ML)
4	Adit Dam	Adit Dam to Creek (off site)	4/01/2022 - 1/02/2022	36.9
			1/02/2022 - 1/03/2022	39.8
			1/03/2022 - 1/04/2022	64.1
			1/04/2022 - 2/05/2022	169.1
			2/05/2022 - 1/06/2022	47.8
			1/06/2022 - 5/07/2022	51.4
			5/07/2022 - 1/08/2022	321.6
			1/08/2022 to 1/09/2022	84.5
			1/09/2022 to 4/10/2022	59.0
			4/10/2022 to 1/11/2022	55.2
			1/11/2022 to 1/12/2022	47.3
			1/12/2022 to 3/01/2023	51.2

Metromix Teralba Quarry Daily Rainfall 2022

Date	Daily Rainfall (mm)											
	January	February	March	April	May	June	July	August	September	October	November	December
1	0	3.0	26.4	0.2	0	0	1	0	2.4	0.8	2	0.2
2	0	30.0	36.8	0	0	0	6	0	12.4	0.2	0	5.6
3	0	1.4	39	0	0.2	3.4	59.6	0	21.2	0	8	1.4
4	0.6	23.0	4.6	0	0	0.4	23.4	14.2	10.4	0	6.2	0
5	21.4	6.8	0	0	3.4	0	139.4	0	0	23.2	0	0
6	1.2	3.2	16.8	7.4	0	0	70.2	0	2.4	4.2	0	0
7	0.2	4.6	23.6	53.8	0	0	10.2	0	0	12.6	0	0
8	18.4	1.8	26	7	0	0	0	0	0	45.2	0	0
9	4.8	0.0	0	8.8	0	0	0	5.6	3.8	9.6	0	0
10	0	0.0	0	0	10.4	0	30.4	0.2	0.6	1	0	0
11	0	21.6	0	2	17	0	2.4	0	0.2	0	1.4	0
12	0	1.8	1.2	2	6.2	0	0	7.4	0	0	3.4	9.4
13	0	0.4	0.4	41.4	5	0	6.2	0.8	0	0	22.2	0
14	0	0.0	0	3.8	0	0	9	0	0.2	0.8	10.6	0
15	7	0.0	0.6	0	0	0	0	0	9	0	0	0
16	0	0.0	1.6	0	0	0	0	0	1.2	0	0	3.4
17	0	12.0	0	0	0	0	0	0	0	3.6	0	3.8
18	0.6	1.6	0	0	0	5.4	0	0	0	0	0	14.8
19	41.8	1.8	15.2	1.4	0	2.4	8	4	0	1.2	0	1
20	0.4	0.0	0	0.2	3.4	1.4	2.6	0	0	37	0	0
21	0	0.0	0	2.8	19.2	0	6.4	0	0.2	0.8	0	0
22	0	2.0	0	21.6	13.6	0	4.8	0	20.6	1.2	0	1
23	1	1.4	6.8	5.8	20.4	0	1	6.8	4.6	10.8	0	3.4
24	0.8	2.6	40.8	2	5.2	0	0.2	0.6	9.4	5.8	0	0.8
25	0	2.4	3.6	0	0	0	0	0	0.4	0	0	0.2
26	0	2.4	9.8	0.6	0	0	2.8	3.2	0	0	0	0
27	0	2.2	10.4	0.6	0	1.2	0	0.2	1	8.4	2	0
28	0	5.2	0	0.4	0.2	2.4	0	0	1.2	0	8	0
29	0		57.8	0.4	0	0.2	0	0	11.8	0	0	0
30	0		20	4	7.4	0	0	0	9.8	0	0	1
31	0		12		0		0	2.2		0		0
Monthly Total	98.2	131.2	353.4	166.2	111.6	16.8	383.6	45.2	122.8	166.4	63.8	46.0
											Annual Total:	1705.2



METROMIX



14 September 2022

Ref: 8413/29868

Metromix Pty Ltd
150 Rhondda Road
Teralba NSW 2284

SEPTEMBER 2022 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 5th and finishing on Thursday 8th of September, 2022. 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 September 2022 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	6351470
EPL-B¹	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

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 ensure that noise generated by the activities within the premises do not exceed the following criteria measured by dB(A) at any residence or privately owned land.																																			
	<table><tr><th>Location</th><th>Day Shoulder 6:00am - 7:00am</th><th>Day 7:00am - 6:00pm</th><th>Evening 6:00pm – 10:00pm</th><th>Night 10:00pm – 6:00am</th></tr><tr><td></td><td>L_{Aeq} (15 minute)</td><td>L_{Aeq} (15 minute)</td><td>L_{Aeq} (15 minute)</td><td>L_{Aeq} (15 minute) L_{A1}(1min)</td></tr><tr><td>EPL-A</td><td>38</td><td>38</td><td>37</td><td>35 45</td></tr><tr><td>EPL-B</td><td>42</td><td>46</td><td>36</td><td>35 45</td></tr><tr><td>EPL-C</td><td>42</td><td>42</td><td>35</td><td>35 45</td></tr><tr><td>EPL-D, EPL-E, EPL-H</td><td>35</td><td>35</td><td>35</td><td>35 45</td></tr><tr><td>EPL-F</td><td>37</td><td>38</td><td>38</td><td>35 45</td></tr></table>	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)	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	EPL-D, EPL-E, EPL-H	35	35	35	35 45	EPL-F	37	38	38	35 45
	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)	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																															
	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	For the purposes of Condition 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; and b. the period from 10pm to 8am Sundays and Public Holidays.																																			
	L5.4	The contributed noise level from the premises must not exceed the noise limits specified within EPL 536 at the most noise-affected point on or within the boundary of any residential premises to the north and/or south of the premises, except as expressly provided by this licence, or by the EPA in writing.																																		
	L5.5	The noise limits set out in conditions L5.2 apply under all meteorological conditions except for anyone of the following: 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; or c) Stability category G temperature inversion conditions.																																		
	L5.6	For the purpose of condition L5.5:																																		

	<div><div><div>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.</div><div>b) Stability category temperature inversion conditions are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the <i>NSW industrial Noise Policy (EPA 2000)</i></div></div><div><div>Note:</div><div>The weather station must be designed, commissioned and operated in a manner to obtain the necessary parameters required under the above condition.</div></div></div>																
L5.7	<div>To determine compliance:</div> <div><div>1. With the $L_{Aeq(15\text{ min})}$ noise limits in condition L5.2, the licensee must locate noise monitoring equipment;</div><div><div>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,</div><div>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</div><div>c) within approximately 50 metres if the boundary of a national park or nature reserve.</div></div><div>2. With the $LA1(1\text{ minute})$ noise limits in condition L5.2, the noise monitoring equipment must be located within 1 metre of a dwelling facade.</div><div>3. With the noise limits in condition L5.2, the noise monitoring equipment must be located;</div><div><div>a) at the most affected point at a location where there is no dwelling at the location, or</div><div>b) at the most affected point within an area at a location prescribed by conditions L5.7 1(a) or L5.7 1(b).</div></div></div>																
L5.8	<div>A non-compliance will still occur where noise generated from the premises in excess of the appropriate noise limit is measured:</div> <div><div>a) at a location other than an area prescribed by the conditions of this licence, and /or</div><div>b) at a point other than the most affected point at a location.</div></div>																
L5.9	<div>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.</div>																
L5.10	<div>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.</div>																
L7.1	<div>The licensee must comply with the operating hours specified in Column 2, Column 3, and Column 4 of the table below:</div> <table><tr><th>Day</th><th>Loading and Dispatch of Quarry Trucks</th><th>Extraction and Processing</th><th>Receipt of Concrete</th></tr><tr><td>Monday - Friday</td><td>4:00am Monday to midnight Friday</td><td>7:00am to 7:00pm</td><td>7:00am to 5:00pm</td></tr><tr><td>Saturday</td><td>Midnight Friday to 6:00pm Saturday</td><td>7:00am to 2:00pm</td><td>7:00am to 2:00pm</td></tr><tr><td>Sundays and Public Holidays</td><td>None</td><td>none</td><td>none</td></tr></table> <div><div>Note:</div><div>Maintenance activities may occur at any time provided they are inaudible at privately-owned residence.</div><div>*VENM = Virgin Excavated Natural Material</div><div>**ENM = Excavated Natural Material</div></div>	Day	Loading and Dispatch of Quarry Trucks	Extraction and Processing	Receipt of Concrete	Monday - Friday	4:00am Monday to midnight Friday	7:00am to 7:00pm	7:00am to 5:00pm	Saturday	Midnight Friday to 6:00pm Saturday	7:00am to 2:00pm	7:00am to 2:00pm	Sundays and Public Holidays	None	none	none
Day	Loading and Dispatch of Quarry Trucks	Extraction and Processing	Receipt of Concrete														
Monday - Friday	4:00am Monday to midnight Friday	7:00am to 7:00pm	7:00am to 5:00pm														
Saturday	Midnight Friday to 6:00pm Saturday	7:00am to 2:00pm	7:00am to 2:00pm														
Sundays and Public Holidays	None	none	none														

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. Noise levels identified in the tables as “industrial” relates to noise emissions from other industrial premises in Teralba, not related to TQ. 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 for the most closely related one hour period to the noise monitoring survey at each site.

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 – 5 September 2022 (Day)					
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))
A	2:32 pm	51	38	2.4/164	Trains (48), birds (46), traffic (39), industries (32), insects (30), TQ inaudible
B	12:54 pm	60	46	2.0/163	Train (59), traffic (54), industries (40), birds (38), TQ inaudible
D	11:06 am	51	35	2.4/132	Traffic (51), birds (41), TQ inaudible
E	9:30 am	41	35	1.8/183	Birds & frogs (40), traffic (34), TQ (30)
H	11:19 am	45	35	2.4/132	Birds (41), insects (40), traffic (39), TQ inaudible

Table 3 Teralba Quarry Noise Monitoring Results – 5 September 2022 (Evening)					
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))
A	8:32 pm	53	37	1.4/215	Frogs (53), trains (41), traffic (30), TQ inaudible
B	7:13 pm	46	36	1.0/210	Frogs (44), traffic (42), insects (27), TQ inaudible
D	6:39 pm	46	35	1.3/194	Traffic (45), frogs (38), TQ inaudible
E	7:51 pm	49	35	1.0/210	Frogs (47), traffic (45), insects (29), TQ inaudible
H	6:00 pm	54	35	1.3/194	Birds (53), traffic (47), TQ (27)

Table 4
Teralba Quarry Noise Monitoring Results – 6 September 2022 (Night)

Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))
A	5:35 am	46	35	1.4/232	Birds (45), frogs (37), traffic (34), TQ inaudible
B	4:30 am	49	35	1.5/236	Trains (48), traffic (39), frogs (36), insects (28), TQ inaudible
D	4:30 am	45	35	1.5/236	Traffic (44), birds (36), TQ inaudible
E	5:35 am	44	35	1.4/232	Birds & frogs (42), traffic (40), TQ (30)
H	5:30 am	55	35	1.4/232	Dog (54), birds (45), traffic (39), TQ (28)

Table 5
Teralba Quarry Noise Monitoring Results – 6 September 2022 (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))
A	6:35 am	48	38	1.8/239	Birds (48), traffic (35), insects (32), industries (30), TQ inaudible
B	6:45 am	60	42	1.8/239	Traffic (60), industries (45), birds (36), TQ inaudible
D	6:25 am	53	35	1.8/239	Traffic (53), birds (39), TQ (31)
E	6:35 am	50	35	1.8/239	Birds (50), traffic (42), TQ (32)
H	6:01 am	53	35	1.8/239	Dog (53), traffic (43), birds (37), TQ (25)

Table 6
Teralba Quarry Noise Monitoring Results – 6 September 2022 (Day)

Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))
A	12:06 am	54	38	1.0/141	Birds (52), traffic (49), insects (35), TQ inaudible
B	7:00am	57	46	1.6/227	Traffic (56), trains (50), birds (43), industries (29), TQ inaudible
D	7:00 am	49	35	1.6/227	Traffic (48), industries (40), birds (37), TQ (25)
E	10:27 am	50	35	1.3/143	Birds (50), traffic (37), insects (30), TQ inaudible
H	8:43 am	55	35	1.2/158	Birds (55), traffic (37), insects (36), TQ inaudible

Table 7
Teralba Quarry Noise Monitoring Results – 6 September 2022 (Evening)

Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))
A	6:00 pm	51	37	0.7/233	Frogs (51), traffic (33), insects (28), TQ inaudible
B	7:12 pm	50	36	0.5/242	Trains (48), traffic (44), frogs (41), insects (30), TQ inaudible
D	7:47 pm	47	35	0.5/242	Traffic (45), trains (42), frogs (35), TQ inaudible
E	6:36 pm	51	35	0.7/233	Frogs (51), insects (33), traffic (28), TQ inaudible
H	8:26 pm	50	35	0.8/257	Birds (48), dog (43), traffic (42), TQ inaudible

Table 8 Teralba Quarry Noise Monitoring Results – 7 September 2022 (Night)					
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))
A	5:35 am	49	35	0.6/202	Traffic (48), birds (45), industries (26), TQ inaudible
B	4:30 am	61	35	0.4/127	Trains (61), traffic (43), frogs (33), industries (27), TQ inaudible
D	4:30 am	49	35	0.4/127	Traffic (49), industries (38), birds & frogs (30), TQ inaudible
E	5:35 am	49	35	0.6/202	Traffic (47), birds & frogs (44), TQ inaudible
H	5:30 am	53	35	0.6/202	Birds (51), traffic (46), dog (45), TQ inaudible

Table 9 Teralba Quarry Noise Monitoring Results – 7 September 2022 (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))
A	6:35 am	53	38	2.7/235	Traffic (51), birds (48), industries (25), TQ inaudible
B	6:44 am	59	42	2.7/235	Traffic (59), trains (47), industries (43), birds (42), TQ inaudible
D	6:24 am	57	35	2.7/235	Traffic (57), birds (38), TQ inaudible
E	6:35 am	50	35	2.7/235	Traffic (48), birds & frogs (45), TQ inaudible
H	6:00 am	49	35	2.7/235	Birds (47), traffic (49), dog (32), TQ inaudible

Table 10 Teralba Quarry Noise Monitoring Results – 7 September 2022 (Day)					
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))
A	11:54 am	51	38	1.7/106	Birds (49), trains (45), traffic (40), insects (30), TQ inaudible
B	7:00 am	55	46	0.9/168	Traffic (54), trains (50), birds (43), industries (31), TQ inaudible
D	7:00 am	55	35	0.9/168	Traffic (53), birds (49), industries (43), TQ (25)
E	10:16 am	54	35	1.0/114	Traffic (54), birds (41), insects (29), TQ inaudible
H	8:39 am	55	35	0.8/112	Birds (54), traffic (45), insects (36), TQ inaudible

Table 11 Teralba Quarry Noise Monitoring Results – 7 September 2022 (Evening)					
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))
A	6:20 pm	52	37	1.7/56	Frogs (51), trains (43), traffic (41), insects (38), TQ inaudible
B	7:33 pm	55	36	2.2/44	Trains (55), traffic (40), frogs (38), TQ inaudible
D	8:07 pm	48	35	1.3/55	Traffic (48), insects (33), TQ inaudible
E	6:57 pm	51	35	2.2/44	Frogs (50), traffic (41), insects (35), TQ inaudible
H	8:45 pm	54	35	1.3/55	Dog (54), traffic (37), frogs (36), TQ inaudible

Table 12 Teralba Quarry Noise Monitoring Results – 8 September 2022 (Night)					
Location	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))
A	5:37 am	52	35	1.0/351	Traffic (50), birds (46), insects (42), industries (25), TQ inaudible
B	4:41 am	50	35	4.3/359	Trains (49), traffic (40), frogs (35), birds (31), TQ inaudible
D	4:30 am	47	35	1.2/359	Traffic (47), birds & frogs (37), TQ inaudible
E	5:35 am	50	35	1.0/351	Birds (50), traffic (40), TQ inaudible
H	5:30 am	54	35	1.0/351	Dog (53), birds (46), traffic (42), TQ inaudible

Table 13 Teralba Quarry Noise Monitoring Results – 8 September 2022 (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))
A	6:35 am	53	38	1.4/23	Birds (51), traffic (47), trains (44), industries (26), TQ inaudible
B	6:44 am	60	42	1.4/23	Traffic (59), trains (50), industries (42), birds (39), TQ inaudible
D	6:24 am	54	35	1.4/23	Traffic (54), birds (37), TQ inaudible
E	6:35 am	46	35	1.4/23	Birds (45), traffic (40), TQ inaudible
H	6:00 am	51	35	1.4/23	Traffic (50), birds (42), dog (40), TQ inaudible

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 did not exceed the relevant criterion at any monitoring location during any part of the survey.

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 noise from trucks on the access road was not audible at this location throughout the survey.

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. Noise emissions from the batching plant which is located adjacent to TQ also contributes 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 Noise Policy for Industry.

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 facade 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 – 6 September 2022 (Night)					
Location	Time	dB(A) L1 (1 min)	Wind speed (m/s) / direction	L1 source	Identified Quarry Sources (L1 (1 min))
A	5:35 am	54	1.4/232	Birds	n/a
B	4:30 am	55	1.5/236	Train	n/a
D	4:30 am	50	1.5/236	Traffic	n/a
E	5:35 am	45	1.4/232	Birds	Reverse alarms (32)
H	5:00 am	57	1.4/232	Dogs	Engine Revs (30)

Table 15 Teralba Quarry (L1 (1min)) Noise Monitoring Results – 7 September 2022 (Night)					
Location	Time	dB(A) L1 (1 min)	Wind speed (m/s) / direction	L1 source	Identified Quarry Sources (L1 (1 min))
A	5:35 am	55	0.6/202	Traffic	n/a
B	4:30 am	66	0.4/127	Train	n/a
D	4:30 am	62	0.4/127	Traffic	n/a
E	5:35 am	52	2.0/202	Birds	n/a
H	5:00 am	54	2.0/202	Birds	n/a

Table 16 Teralba Quarry (L1 (1min)) Noise Monitoring Results – 8 September 2022 (Night)					
Location	Time	dB(A) L1 (1 min)	Wind speed (m/s) / direction	L1 source	Identified Quarry Sources (L1 (1 min))
A	5:35 am	58	1.0/351	Birds	n/a
B	4:30 am	65	1.2/359	Train	n/a
D	4:30 am	59	1.2/359	Traffic	n/a
E	5:35 am	53	1.0/351	Birds	n/a
H	5:01 am	54	1.0/351	Traffic	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 continues to operate within approved noise limits. 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

Author:



Neil Pennington MAIP, MAAS

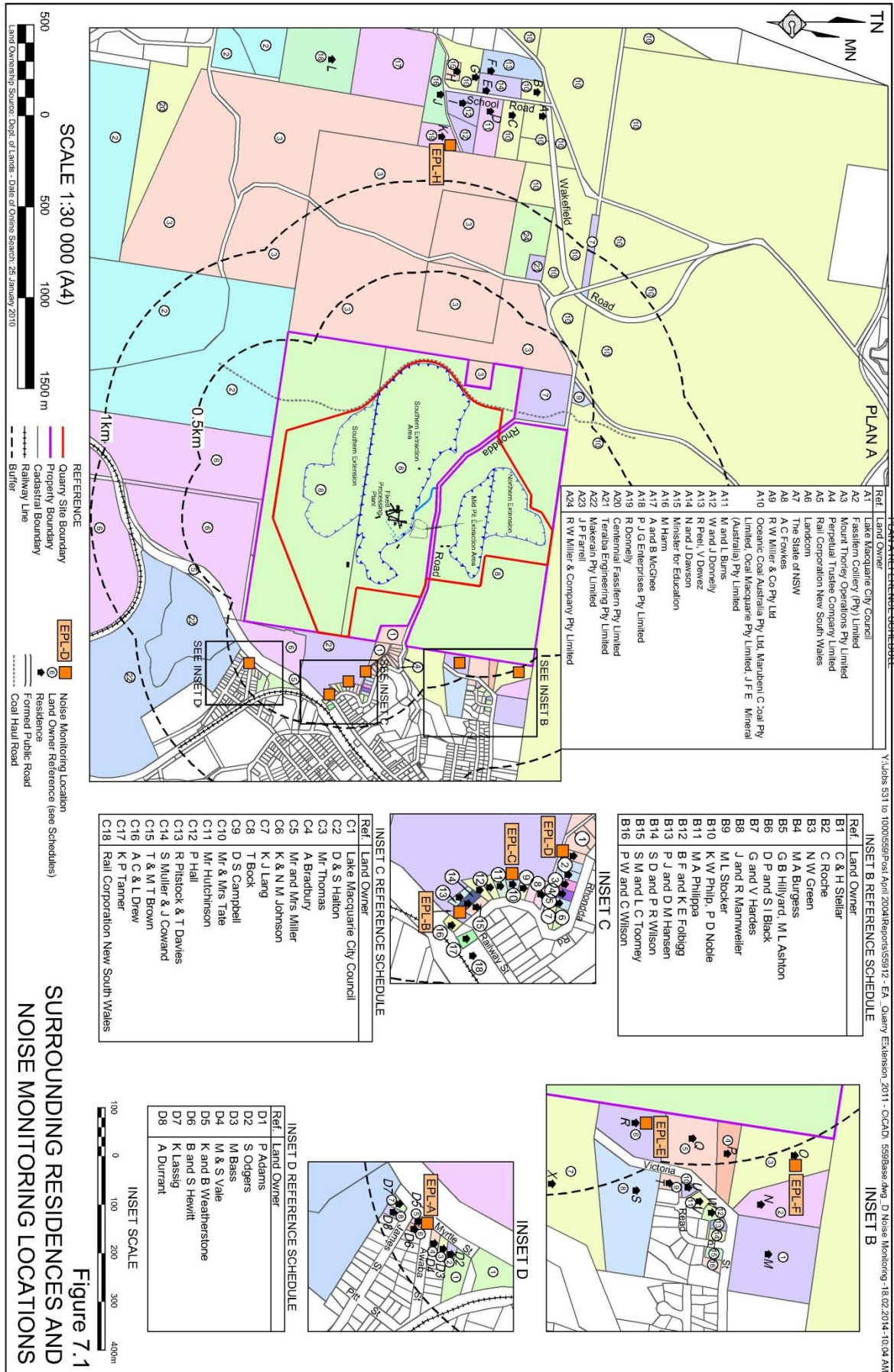
Acoustical Consultant

Review:



Ross Hodge MAAS

Acoustical Consultant





Location EPL – B Modified noise monitoring location

Appendix 2

2022 Nest Box Monitoring Report

Prepared by Echo Ecology
and Surveying

(Total No. of pages including blank pages = 178)



ECHO
ECOLOGY AND
SURVEYING

**2022 NEST BOX MONITORING
REPORT**

Teralba Quarry, Teralba, NSW

Prepared for
Metromix Pty Ltd
Teralba Quarry
Rhondda Road
Teralba NSW 2284

Job Reference 074 - November 2022

Document Control

Project Name	Teralba Quarry
Project Number	074
Client	Metromix
File Name	074 – Teralba Quarry 2021 NB Monitoring Report 17-11-22.docx
Document Description	2022 Nest Box Monitoring Report
Prepared by	Dr Anna McConville (PhD, B.Env.Sc.) Ecologist / Director
Status	FINAL
Version	R0
Date	17 November 2022

This report should be cited as: Echo Ecology and Surveying 2022. *2022 Annual Nest Box Monitoring Report: Teralba Quarry*. Prepared for Metromix.

Disclaimer

This document may only be used for the purpose for which it was commissioned and in accordance with the contract between Echo Ecology and Surveying and Metromix. The scope of services was defined in consultation with Metromix, by time and budgetary constraints imposed by the client, and the availability of reports and other data on the subject area. Changes to available information, legislation and schedules are made on an ongoing basis and readers should obtain up to date information. Echo Ecology and Surveying accepts no liability or responsibility whatsoever for or in respect of any use of or reliance upon this report and its supporting material by any third party. Information provided is not intended to be a substitute for site specific assessment or legal advice in relation to any matter. Unauthorised use of this report in any form is prohibited.

Contents

1.0	Introduction	3
2.0	Background	3
3.0	Methods	4
4.0	Results & Discussion	6
5.0	Recommendations	7
6.0	References	8

Appendix A Nest Box Monitoring Results

Appendix B Nest Box Check Field Sheets

List of Figures

Figure 3-1: Nest box locations	5
Figure 4-1: Sugar and Squirrel Glider nest box occupancy (Sugar/Squirrel Glider observations included as Sugar Gliders)	7
Figure 4-3: Nest box occupancy by Sugar Gliders since installation by nest box location.....	7

1.0 INTRODUCTION

Echo Ecology and Surveying has been engaged by Metromix to undertake annual nest box monitoring at their Teralba Quarry to meet consent conditions.

2.0 BACKGROUND

The fauna assessment for the Teralba Quarry Extension (Kendall & Kendall Ecological Services 2011), recommended that nest boxes be installed to mitigate the potential impacts of the quarry expansion on hollow-dependent fauna species. Subsequently the project approval requires the installation, maintenance and monitoring of nest boxes within the Teralba Quarry site.

Condition 50 of the project approval for Teralba Quarry states:

- The Proponent shall install 20 nest boxes for microbats, 20 nest boxes for Little Lorikeets and 30 nest boxes for Sugar Gliders. These boxes must be monitored and maintained regularly over the life of the project, and re-located or replaced if not used by targeted fauna for a period of 12 months.

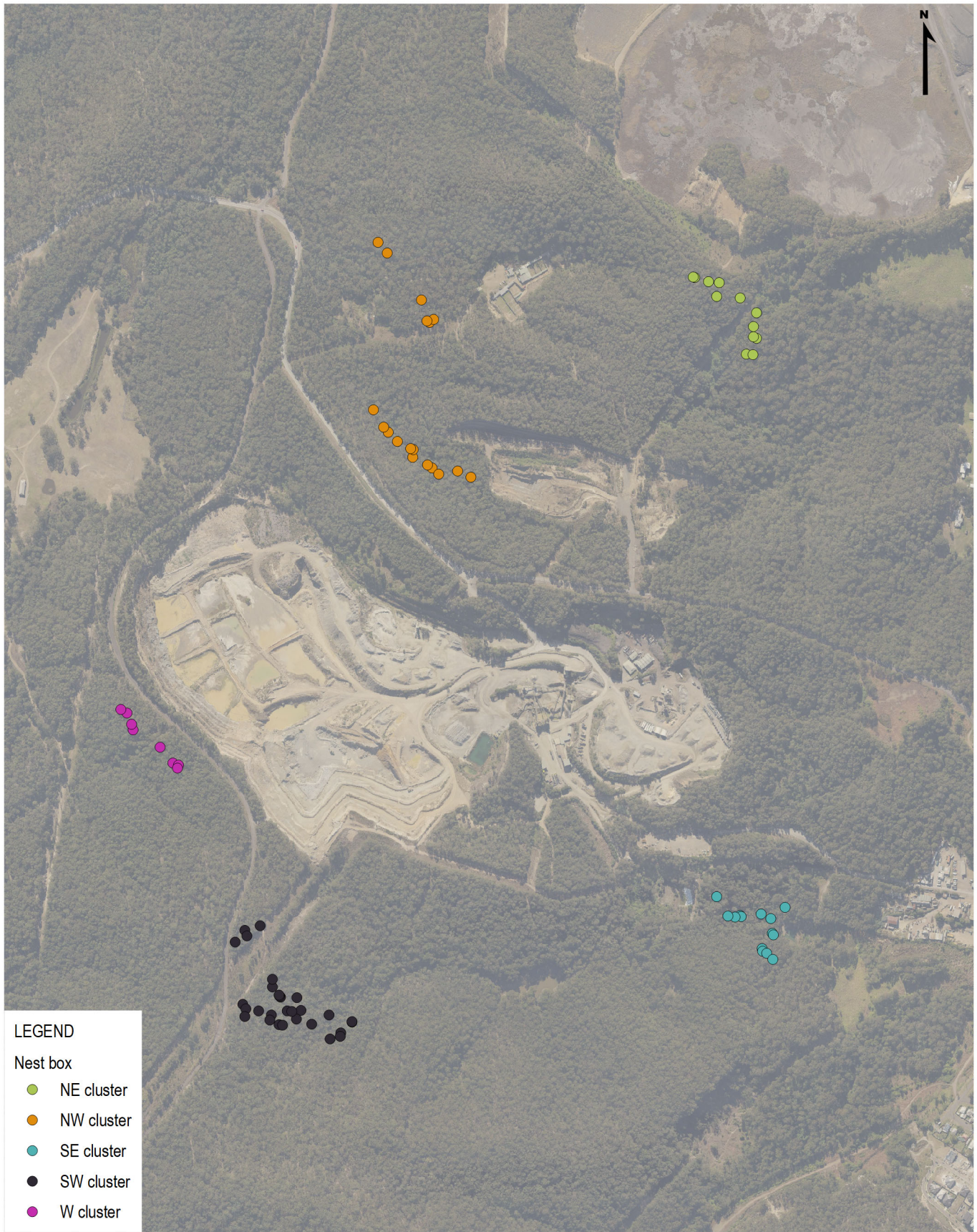
While the project approval condition specifies nest boxes be installed for Sugar Gliders, the fauna assessment report (Kendall & Kendall Ecological Services 2011), recommended that these nest boxes be installed to enhance habitat for Squirrel Gliders, a threatened species. Squirrel Gliders haven't been recorded onsite to date, but it is known from the local area.

In 2014, 70 nest boxes were installed at Teralba Quarry (Kendall & Kendall Ecological Services 2015) and these were monitored in 2015 (Kendall & Kendall Ecological Services 2015), 2016 (Kendall & Kendall Ecological Services 2016) and 2017 (Kendall & Kendall Ecological Services 2017). Due to theft and fire damage, 18 of these nest boxes were replaced in 2017. Five additional nest boxes for each of the target species are stored at Teralba Quarry so that replacements can be quickly installed if other boxes are damaged.

In 2020, an additional 11 nest boxes were installed as part of consent conditions for a powerline relocation project at Teralba Quarry. These new nest boxes have been incorporated into the annual nest box monitoring program.

3.0 METHODS

Nest boxes were checked by Anna McConville on 26 September 2022 using a wireless nest box inspection camera (Brite Star Electronics) mounted on an extension pole. We recorded nest box location, type, aspect, height, occupation evidence and fauna species present. The locations of nest boxes are shown in Figure 3-1 below.



4.0 RESULTS & DISCUSSION

Of the three target groups (Squirrel Gliders, Little Lorikeets or microbats), one was recorded (Squirrel Glider – *Petaurus norfolkensis*) using nest boxes during the inspection. Feral bees were not recorded using nest boxes.

One of the newer boxes installed in 2020 (77) in the new western cluster (along the old Haul Rd) was occupied by Squirrel Gliders (*Petaurus norfolkensis*). Squirrel Gliders were only recorded using nest boxes within the Teralba Quarry for the first time in 2021. However, they are known from this area of Lake Macquarie and it is a positive outcome that the nest boxes installed are providing nesting opportunities for Squirrel Gliders (*Petaurus norfolkensis*).

One Sugar Glider (*Petaurus breviceps*) was recorded occupying a nest box in the NW cluster in 2022. Sugar Glider (*Petaurus breviceps*) occupancy has been declining since 2018, with a dead small possum / glider found inside a box in 2020-21. The cause of the Sugar Glider (*Petaurus breviceps*) decline is unknown, but may be related to the drought in 2019.

One box (65) contained at least 3 gliders that could not be confidently identified (but either Sugar or Squirrel Gliders) as their faces could not be viewed. This box has previously been well used by Sugar Gliders, being occupied during 50 % of inspections.

A further 30 boxes were found to have leaves with depressions like those created by gliders, indicating that the gliders (either Sugar or Squirrel) have been using many of the nest boxes for sheltering. Another 16 boxes had leaves present (but no defined nest) indicating that animals had visited the boxes. Ants were found in one of the boxes and termites also in another nine boxes.

Evidence of use is difficult to determine in microbat nest boxes unless the animals are present as the bottom opening hole means that guano falls through.

Three microbat nest boxes were replaced in 2022 due to termite damage and a box falling apart. Many of the other microbat nest boxes will need replacement in the next few years due to termites and timber rot.

Nest box occupancy by Sugar Gliders was steadily increasing since installation until 2018, when three years of decline have been observed (Figure 4-1). Reduced occupancy may be due to drought conditions experienced in NSW during 2019.

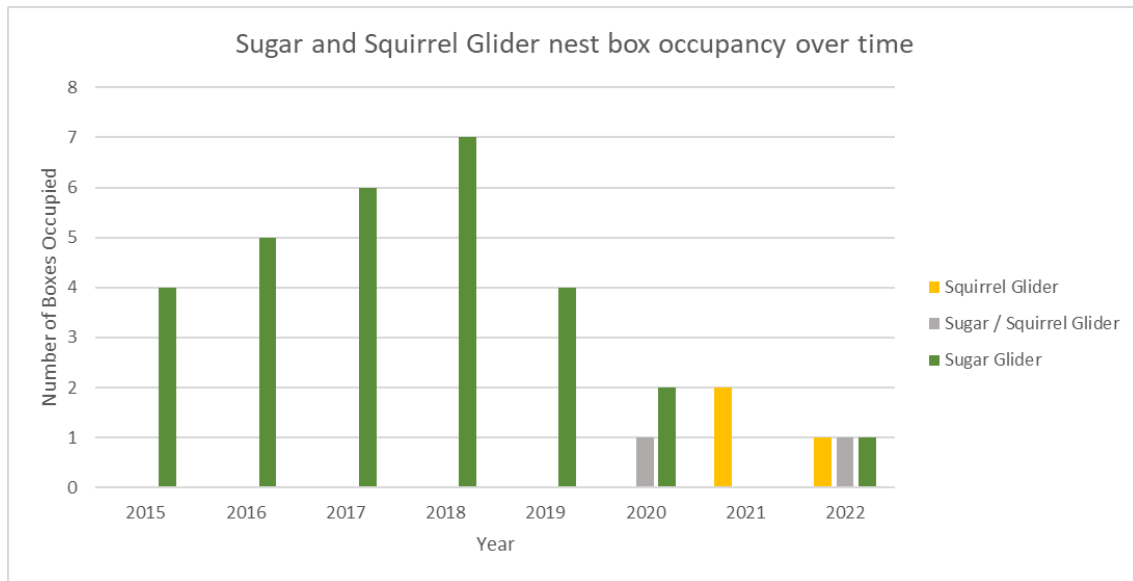


Figure 4-1: Sugar and Squirrel Glider nest box occupancy

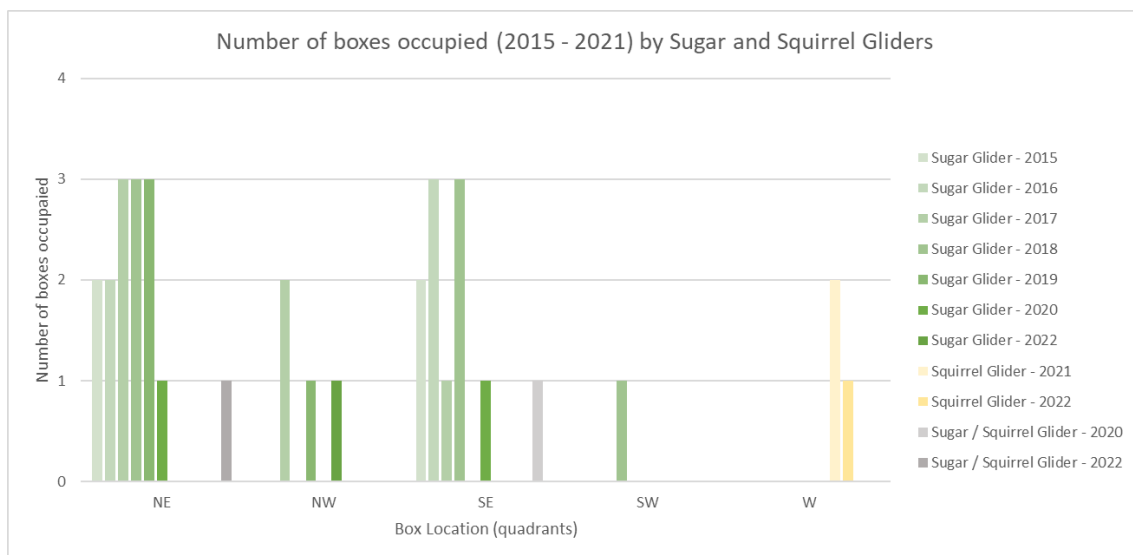


Figure 4-2: Nest box occupancy by Sugar Gliders since installation by nest box location

Appendix A contains the nest box inspection results for 2022 and previous years and Appendix B contains the digital forms completed during the 2022 field work.

5.0 RECOMMENDATIONS

The Project Approval conditions state that nest boxes are to be relocated or replaced if not used by the target species within 12 months. None of the nest boxes have been used by

the target species. However, for Squirrel Glider and Little Lorikeet boxes, the requirement to relocate or replace nest boxes if not used within 12 months is not very appropriate. The boxes are being used by native fauna species (e.g. Sugar Gliders) and removal or replacement would impact these non-target species. Microbat nest boxes are not typically very successful for threatened microbats and have varying success rates. For example, bats have been found not to begin occupying nest boxes until they have been installed for some time (e.g. 10 years at Mt Owen).

Therefore, we recommend that the Project Approval conditions are reviewed and revised to:

- Conduct ongoing regular monitoring and maintenance
- At 10 years post installation, undertake a review of the effectiveness of the nest boxes for the target species and if necessary, consider installing boxes of a different design or boxes in a different location to improve success rates.

6.0 REFERENCES

- Kendall & Kendall Ecological Services. 2011. Teralba Quarry Extensions Fauna Assessment. Prepared for R.W. Corkery & Co on behalf of Metromix Pty Ltd.
- Kendall & Kendall Ecological Services. 2015. Teralba Quarry Extension Project Approval 50 - Nesting box Installation and First Annual Inspection. Prepared for Metromix Pty Ltd.
- Kendall & Kendall Ecological Services. 2016. Teralba Quarry Extension Project Approval 50 - Annual Nesting Box Inspection. Prepared for Metromix Pty Ltd.
- Kendall & Kendall Ecological Services. 2017. Teralba Quarry Extension Project Approval 50 - Annual Nesting Box Inspection. Prepared for Metromix Pty Ltd.

APPENDIX A NEST BOX MONITORING RESULTS

Table A: Nest box monitoring results

Tag No.	Cluster	Box Type	Tree Species	Aspect	Approx Height (m)	Easting (GDA Zone56)	Northing (GDA zone 56)	2015 Results	2016 Results	2017 Results	2018 Results	2019 Results	2020 Results	2021 Results	2022 Results
1	NW	Little Lorikeet	Spotted Gum	102	4	367958	6353147	-	Leaves with depression	Ants	Ants	Ants	Tight leaf nest. Couldn't see inside	Mud Wasps; Leaf nest; Looks like Antechinus or feather tail glider style nest	Leaf nest
2	NW	Little Lorikeet	Stringybark/ Mahogany	34	3.8	367940	6353168	-	Leaves with depression	Leaves	Leaves with depression	Leaf nest	Leaf nest. Could see in and it was empty	Mud Wasps; Leaves (loose); box needs to be rehung has fallen off tree	Rehang fallen off tree
3	NW	Little Lorikeet	Spotted Gum	160	4	368025	6353055	Leaves	Leaves with depression	2 Sugar Gliders	Leaves with depression	Leaf nest	Leaf nest	Leaf nest	New tree tag; At least 1 x Sugar Glider; Looks like a single male, more like a Sugar Glider than Squirrel due to blunt face
4	NW	Little Lorikeet	Spotted Gum	100	4	368041	6353011	-	Leaves	Leaf nest	old Leaves with depression	Leaf nest	Leaf nest. Couldn't see inside	Leaf nest	Leaf nest
5	NW	Little Lorikeet	Spotted Gum	100	2.2	368049	6353017	Leaves	Leaves	Leaves and ants	Old leaves with depression and ants	Leaf nest	Leaf nest with ants nest starting to form	Ants	Ants; Leaves (loose); Old leaf nest
6	NW	Little Lorikeet	Spotted Gum	188	2.5	368036	6353014	Leaves	Leaves	1 Sugar Glider	Leaves with depression	Leaf nest	Leaf nest. Couldn't see inside	Leaf nest	Mud Wasps; Leaf nest
7	SW	Squirrel Glider	Stringybark/ Mahogany	112	3.8	367675	6351673	-	Old bits of bark	Bird egg shell	Leaves	Leaves (loose)	Leaf nest	Leaf nest; Can't see all the way in the nest but gave it a tap and nothing moved	Leaf nest
8	SW	Microbat	Bloodwood	88	3.5	367681	6351664	-	-	-	-	-	-	-	Termites; Lid ajar - screwed shut; Still room for bats, termites just starting

Tag No.	Cluster	Box Type	Tree Species	Aspect	Approx Height (m)	Easting (GDA Zone56)	Northing (GDA zone 56)	2015 Results	2016 Results	2017 Results	2018 Results	2019 Results	2020 Results	2021 Results	2022 Results
9	SW	Squirrel Glider	Stringybark/ Mahogany	48	2.6	367679	6351649	-	Old bits of bark	-	Leaves and bark	Leaves (loose)	-	-	Just bark in bottom likely from install
10	SW	Squirrel Glider	Bloodwood	44	3.5	367731	6351652	-	-	Leaves	Leaves with depression	Leaf nest, Glider type nest	Leaf nest. Side of box plywood is starting to peel, but still ok	Leaf nest; Termites just started don't need to replace yet	Termites; Leaf nest; Termites only just started, lots of room
11	SW	Microbat	Bloodwood	108	3.5	367728	6351642	-	-	-	-	-	-	-	-
12	SW	Squirrel Glider	Bloodwood	138	3.8	367746	6351633	-	-	Leaf nest	Sugar Gliders 2+	Leaf nest, Glider type nest	Leaf nest	Termites just started	Leaf nest
13	SW	Microbat – HLH 2 chamber	Stringybark/ Mahogany	76	4	367753	6351632	-	-	-	Mud Wasps		Termite damage. Recommend replacement next year	Termites probably 1/5 of box. Still lots of room for fauna to cohabit	Termites have completely blocked entrance; Large arboreal termite nest in original tree, so put new replacement box on new tree. Tree and box details are for the new box
14	SW	Squirrel Glider	Stringybark/ Mahogany	74	3.6	367762	6351660	-	Old bits of bark	-	Leaves with depression	Leaf nest, Glider nest	Leaves (loose). Spider web on outside and interior, leaves were old	Leaf nest	Leaf nest
15	SW	Microbat	Bloodwood	68	4	367749	6351687	-	-	-	-		Huntsman	-	
16	SW	Squirrel Glider	Bloodwood	118	4	367733	6351707	-	-	-	-		Some small debris from installation	Leaves (loose); Minor termites	Termites; Leaf nest; Termites eating outside but still lots of room inside
17	SW	Little Lorikeet	Bloodwood	262	5	367733	6351722	Box Missing	Box Missing	New Installed Box	Leaves with depression	Leaf nest, Recent nest	Leaf nest	Leaf nest looks old	Termites; Leaves (loose); Old Leaves in bottom, prob from install
18	SW	Little Lorikeet	Bloodwood	144	3.8	367747	6351689	Box Missing	Box Missing	New Installed Box	Leaves	Leaf nest, Feather tail glider/antechinus type	Leaf nest	Leaf nest	Leaf nest

Tag No.	Cluster	Box Type	Tree Species	Aspect	Approx Height (m)	Easting (GDA Zone56)	Northing (GDA zone 56)	2015 Results	2016 Results	2017 Results	2018 Results	2019 Results	2020 Results	2021 Results	2022 Results
19	SW	Little Lorikeet	Bloodwood	180	3.5	367781	6351686	Box Missing	Box Missing	New Installed Box	Leaves	Leaf nest, Feather tail glider/antechinus type	Leaf nest	Leaf nest; Termites minor-mod but still lots of room to cohabit. Tree recently dead	Termites; Leaf nest (old); Tree is dead now.
20	SW	Little Lorikeet	Stringybark/ Mahogany	108	3.8	367789	6351661	Box Missing	Box Missing	New Installed Box	Leaves	Leaves (loose)	Just wood shavings from installation	Leaves (loose)	Old leaf nest
21	SW	Little Lorikeet	Stringybark/ Mahogany	104	3.2	367810	6351634	Box Missing	Box Missing	New Installed Box	Leaves	Leaves (loose)	Loose leaves and wood shavings from installation	Leaves (loose)	Leaf nest
22	SW	Little Lorikeet	Stringybark/ Mahogany	116	4	367844	6351652	Box Missing	Box Missing	New Installed Box	Leaves	Leaves (loose)	Leaves (loose). Wasp or something in the corner	Leaves (loose)	Leaves (loose)
23	SW	Little Lorikeet	Stringybark/ Mahogany	32	4	367889	6351638	Box Missing	Box Missing	New Installed Box	Leaves	Leaf nest, Feather tail glider/antechinus type	Leaf nest. Couldn't see inside	Leaf nest	Leaf nest
24	SW	Little Lorikeet	Stringybark/ Mahogany	-	-	367889	6351639	Box Missing	Box Missing	New Installed Box	Leaves	-	-	Leaves (loose)	Leaf nest
25	SW	Little Lorikeet	Stringybark/ Mahogany	1	4.5	367867	6351617	Box Missing	Box Missing	New Installed Box	Leaves	Leaf nest	Leaf nest	Old leaf nest now not so dense	Leaves (loose) - Old
26	SW	Little Lorikeet	Stringybark/ Mahogany	54	3.8	367866	6351610	Box Missing	Box Missing	New Installed Box	Leaves	Leaves (loose)	Wood shavings from installation	-	Just wood shavings etc from install
27	SW	Little Lorikeet	Stringybark/ Mahogany	222	4	367846	6351605	Box Missing	Box Missing	New Installed Box	Leaves	Leaves (loose)	Just wood shavings from installation	Leaf nest; 1 x unidentified frog species	Leaves (loose)
28	SW	Little Lorikeet	Bloodwood	68	3.8	367780	6351644	Box Missing	Box Missing	New Installed Box	Leaves	Leaves (loose)	Just wood shavings from installation		Wood shavings only
29	SW	Little Lorikeet	Bloodwood	342	4.2	367771	6351659	Box Missing	Box Missing	New Installed Box	Leaves	Leaf nest	Leaves (loose). Dark blob in bottom left corner but didn't move when knocked	Leaves (loose)	Leaves (loose); Prob just from install

Tag No.	Cluster	Box Type	Tree Species	Aspect	Approx Height (m)	Easting (GDA Zone56)	Northing (GDA zone 56)	2015 Results	2016 Results	2017 Results	2018 Results	2019 Results	2020 Results	2021 Results	2022 Results
30	SW	Little Lorikeet	Bloodwood	272	3.8	367746	6351691	Box Missing	Box Missing	New Installed Box	Leaves	Leaves (loose)	Only wood shavings from installation	-	Leaves (loose); Prob from install
31	SW	Squirrel Glider	Spotted Gum	162	4.8	367709	6351827	Box Missing	Box Missing	New Installed Box	Leaves	Leaves (loose)	Leaf nest. Couldn't see inside	-	Leaf nest
32	SW	Squirrel Glider	Spotted Gum	50	4.2	367679	6351818	Box Missing	Box Missing	New Installed Box	Leaves	Leaf nest, Old nest	Leaves (loose)	Leaf nest	New tree tag (132); Leaves (loose); Old bee hive remains
33	SW	Squirrel Glider	Spotted Gum	214	3.4	367683	6351807	Box Missing	Box Missing	New Installed Box	Leaves	Leaves (loose)	Leaves (loose)Very old leaf nest or attempt	Leaf nest	Leaf nest
34	SW	Squirrel Glider	Spotted Gum	158	4	367660	6351795	Box Missing	Box Missing	New Installed Box	Leaves	Leaf nest, Glider type nest	Leaf nest. Chews on entrance.Prob not very recent	-	White-throated Treecreeper nest with 3 chicks; Observed parent returning to confirm ID
35	SE	Squirrel Glider	Grey Gum	252	3.4	368738	6351863	-	Old leaves	-	Sugar glider 3+	Leaves (loose)	Sugar/Squirrel Glider. Couldn't get a good enough look to confidently ID sugar/squirrel glider	Leaf nest	Leaves (loose)
36	SE	Microbat	Stringybark/ Mahogany	282	3	368710	6351841	Leaves	No leaves	-	-	-	-	-	
37	SE	Squirrel Glider	Grey Gum	246	4	368691	6351850	Leaves	Leaves	-	Old Leaves with depression. Chew marks on hole	Observed Sugar Glider 2+ Adult male id by scent gland. HLH box	Sugar Glider, 4+ includes 1 juvenile	Leaf nest	Leaf nest; Chews on entrance
38	SE	Microbat	Stringybark/ Mahogany	314	3.5	368650	6351847	Leaves	Brown Antechinus and Leaves	Leaves	Leaves taking up the entire bat box. Opened the top and there were scats on top.	Leaf nest, Couldn't see inside leaf nest with entry hole up one side.	Leaf nest. Leaves jammed in the bottom can't see in	-	Rehang box that had fallen off
39	SE	Squirrel Glider	Tallowwood	325	4.2	368652	6351845	2 Sugar Gliders	Sugar Glider	-	Sugar gliders 2+	Leaf nest, Glider type nest	Leaves (loose)	Leaf nest	Leaves (loose); Chews on entrance
40	SE	Microbat	Tallowwood	354	3.6	368640	6351844	-	-	-	-	Wasps	Mud Wasps	Mud Wasps	Mud Wasps

Tag No.	Cluster	Box Type	Tree Species	Aspect	Approx Height (m)	Easting (GDA Zone56)	Northing (GDA zone 56)	2015 Results	2016 Results	2017 Results	2018 Results	2019 Results	2020 Results	2021 Results	2022 Results
41	SE	Squirrel Glider	Tallowwood	204	4.1	368626	6351846	Leaves	Leaves	-	Chew marks on hole. Leaves with depression	Leaf nest, Glider type nest	Something inside, but couldn't get a look at what was in there could've been a single sugar/squirrel glider or a feather tail glider	Leaf nest	Lid replaced
42	SE	Microbat	Stringybark/ Mahogany	300	4	368713	6351812	-	-	-	Mud wasp	Wasps	-	-	
43	SE	Squirrel Glider	Stringybark/ Mahogany	330	4	368715	6351809	-	Sugar Glider	-	Sugar glider 2+	Observed Sugar Glider 1 Adult male	Leaf nest	Leaves (loose)	Leaf nest
44	SE	Squirrel Glider	Spotted Gum	344	3.8	368693	6351782	4 Sugar Gliders	Sugar Glider	-	Leaves with depression	Leaf nest; Glider type nest	Scats, Leaf nest. I think the dark things are scats but can't be sure	Looks like a dead glider or small possum inside	New tag; Leaf nest, old dead mammal, prob Sugar/Squirrel Glider; chews on entrance
45	SE	Squirrel Glider	Tallowwood	306	3	368694	6351777	Leaves	Old leaves	3 Sugar Gliders	Leaves with depression	Observed, Sugar Glider 3+	Leaf nest	Possible mammal, did not move when box tapped	Leaf nest
46	SE	Microbat HLH 2 chamber	Spotted Gum	10	3.1	368702	6351773	-	-	-	-	Spider webs everywhere.	Spider silk has tied the opening shut can't see inside	-	Shadecloth off and box coming away from back board. Replaced box and installed new tag. Tree/box details are for new box
47	SE	Squirrel Glider	Ironbark	324	4	368714	6351761	Leaves	Leaves	-	Leaves with depression	Observed Sugar Glider 2+; Adult male ID by scent gland	Leaf nest	Leaf nest	Leaf nest
48	NW	Microbat HLH 2 chamber	Tallowwood	190	3	368062	6352707	-	-	-	-	Wasps, stick inside	Vine tendrill inside	Pulled the vine out	Termites; Installed new box; old box is only hanging by a vine that goes through it, has termites and lid won't shut. Tree/box details are new box

Tag No.	Cluster	Box Type	Tree Species	Aspect	Approx Height (m)	Easting (GDA Zone56)	Northing (GDA zone 56)	2015 Results	2016 Results	2017 Results	2018 Results	2019 Results	2020 Results	2021 Results	2022 Results
49	NW	Microbat	Tallowwood	140	3.6	368051	6352708	-	-	-	-	-	-	-	Termites; Recommend replacing soon, box has termite damage and rot. But will prob last a couple more years
50	NW	Microbat	Tallowwood	80	3.5	368042	6352724	-	-	-	-	-	-	Leaf nest; Antechinus or feathertail glider style nest	Rehang; Fallen off tree; rehung on same tree. Updated aspect and height
51	NW	Microbat	Stringybark/ Mahogany	106	3	368008	6352747	-	-	-	-	Shadecloth replaced	-	-	-
52	NW	Microbat	Tallowwood	106	4	368009	6352762	-	-	-	-	-	Nestbox had fallen off. Installed new wire and rehung it.	-	Leaves (loose); Can't see in too many leaves
53	NW	Microbat	Ironbark	88	3.8	367987	6352761	-	-	-	-	Shadecloth replaced	-	-	Leaves (loose); Can't see in too many leaves
54	NW	Microbat	Stringybark/ Mahogany	116	4	367978	6352778	-	-	-	-	Shadecloth replaced	-	-	Leaves (loose); Can't see in too many leaves
55	NW	Microbat	Stringybark/ Mahogany	132	3.3	367960	6352796	-	-	-	-	-	-	-	-
56	NW	Microbat	Stringybark/ Mahogany	118	3.4	367951	6352806	-	-	-	Leaves	Leaf nest	Leaf nest. Leaves jammed into entrance so I can't see all of inside. Feathertail glider or Antechinus nest likely	Some sort of fungus growing on the box I think, but still looks usable	-
57	NW	Microbat	Ironbark	102	3.8	367931	6352840	-	-	-	Mudwasps	-	Mud Wasps	-	Leaves (loose); Can't see in too many leaves
58	NE	Squirrel Glider	Ironbark	13	3.2	368662	6352949	Leaves	Old leaves	-	New leaves, chews on hole	Leaf nest, Glider type nest	Leaf nest. Chews on entrance	Leaf nest	Leaf nest; Chews around entrance


Tag No.	Cluster	Box Type	Tree Species	Aspect	Approx Height (m)	Easting (GDA Zone56)	Northing (GDA zone 56)	2015 Results	2016 Results	2017 Results	2018 Results	2019 Results	2020 Results	2021 Results	2022 Results
59	NE	Squirrel Glider	Ironbark	12	2.8	368675	6352948	-	-	2 Sugar Gliders	Leaves with depression chews on hole	Leaf nest, Old nest	Leaf nest. Can't see inside nest	Leaf nest	Leaf nest; Chews around entrance
60	NE	Squirrel Glider	Tallowwood	2	3.2	368682	6352980	Bee hive	Abandoned Bee hive, now leaves	-	Leaves with depression and mud wasps	Wasps, Leaves (loose)	Leaf nest. Chews on entrance	Leaf nest	Leaves (loose); Chews on entrance; rot visible on inside
61	NE	Squirrel Glider	Tallowwood	78	2.4	368676	6352983	Leaves	Leaves	Leaves	Leaves with depression	Leaf nest, Glider type nest	Leaf nest	Leaf nest	Leaf nest
62	NE	Squirrel Glider	Ironbark	116	3	368676	6353003	Leaves	Leaves	-	Sugar glider 1 +	Leaf nest, Glider type nest	Shredded bark from prob installation	-	Leaves (loose)
63	NE	Squirrel Glider	Ironbark	118	4.2	368682	6353030	Leaves	Leaves	Leaf nest	Leaves, chews on hole	Leaf nest, Old nest	Leaf nest	Leaf nest	Leaf nest
64	NE	Squirrel Glider	Stringybark/ Mahogany	62	4	368650	6353059	Leaves	Leaves	-	Leaves with depression	Leaf nest, Glider type nest	Leaf nest	Leaf nest	Leaf nest
65	NE	Squirrel Glider	Ironbark	56	4	368604	6353062	1 Sugar Glider	Sugar Glider (1+)	2 Sugar Gliders	Sugar gliders 2+	Leaf nest, Glider type nest	Shredded bark from probably installation.	-	At least 3 x Sugar/Squirrel Glider; Couldn't see enough of face for ID
66	NE	Squirrel Glider	Stringybark/ Mahogany	8	5	368609	6353089	Bee hive	Abandoned Bee hive, now leaves	2 Sugar Gliders	-	Leaf nest	Sugar/Squirrel Glider, 1+ ID not confident,	Chewed entrance	Leaves (loose) and fresh looking but no nest; chews on entrance
67	NE	Squirrel Glider	Spotted Gum	0	3.2	368588	6353091	Leaves	Leaves	-	-	-	New Tree tag required. A few leaves and shredded bark from prob installation	-	Leaf nest
68	NE	Squirrel Glider	Spotted Gum	256	4	368561	6353099	Leaves	Sugar Glider	Leaf nest	Leaves	Leaf nest, Glider type nest	Shredded bark in bottom probably from installation	Leaf nest	Tag off tree; Leaf nest looks like feather tail / Antechinus tight nest
69	NE	Squirrel Glider	Stringybark/ Mahogany	96	4	368558	6353100	1 Sugar Glider	Leaves	-	Sugar glider 5	Leaves (loose)	Leaves (loose)	Leaf nest	Leaf nest

Tag No.	Cluster	Box Type	Tree Species	Aspect	Approx Height (m)	Easting (GDA Zone56)	Northing (GDA zone 56)	2015 Results	2016 Results	2017 Results	2018 Results	2019 Results	2020 Results	2021 Results	2022 Results
70	SW	Microbat	Stringybark/ Mahogany	90	3.8	367706	6351660	-	-	-	-	Termite trail going thru box	Termites	Termites; Replacement will be needed in next couple of years	Termites; still room for bats
71	W	Bat - single chamber panel box	Stringybark/ Mahogany	332	4	367513	6352177	-	-	-	-	-	Box installed	Leaf nest	Leaf nest
72	W	Little Lorikeet	Stringybark/ Mahogany	248	3	367538	6352146	-	-	-	-	-	Box installed	-	-
73	W	Bat - HLH 2 chamber	Stringybark/ Mahogany	298	4.3	367549	6352142	-	-	-	-	-	Box installed	Leaf nest	Leaf nest
74	W	Squirrel Glider	Tallowwood	40	3.4	367547	6352136	-	-	-	-	-	Box installed	Leaves (loose)	Shavings from install
75	W	Squirrel Glider	Stringybark/ Mahogany	122	4.3	367460	6352211	-	-	-	-	-	Box installed	Leaf nest	Leaf nest
76	W	Little Lorikeet	Stringybark/ Mahogany	188	3.8	367457	6352222	-	-	-	-	-	Box installed	-	-
77	W	Bat - HLH 2 chamber	Stringybark/ Mahogany	54	5	367448	6352244	-	-	-	-	-	Box installed	At least 3 x Squirrel Gliders; These gliders were larger, with fluffier tails and longer snout than the Sugar Gliders previously recorded onsite	At least 3 Squirrel Glider. Look more like squirrel glider due to size and face. It is a tall box. Probable ID
78	W	Squirrel Glider	Tallowwood	220	4	367436	6352251	-	-	-	-	-	Box installed	At least 2 x Squirrel Gliders; These gliders were larger, with fluffier tails and longer snout than the Sugar Gliders previously recorded onsite	Leaf nest
79	NW	Squirrel Glider	Tallowwood	230	4.3	368096	6352720	-	-	-	-	-	Box installed	-	Wasps; something in the bottom but not moving - photo

Tag No.	Cluster	Box Type	Tree Species	Aspect	Approx Height (m)	Easting (GDA Zone56)	Northing (GDA zone 56)	2015 Results	2016 Results	2017 Results	2018 Results	2019 Results	2020 Results	2021 Results	2022 Results
80	NW	Little Lorikeet	Tallowwood	138	3.4	368122	6352708	-	-	-	-	-	Box installed	Mud Wasps	Mud Wasps; Wood shavings from install in bottom
81	SE	Squirrel Glider	Flooded Gum	286	4	368604	6351884	-	-	-	-	-	Box installed	1 x Common Ringtail Possum; no nesting material other than what came with the box	Leaf nest - Old Ringtail drey?

APPENDIX B NEST BOX CHECK FIELD SHEETS

1

Project	Teralba Quarry
Created	2022-09-26 12:02:08 AEST by Anna McConville
Updated	2022-09-26 12:02:36 AEST by Anna McConville
Location	-32.95253026767916, 151.58730936250797
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	12:02

Box Details

Nestbox Number	1
----------------	---

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



yes, 2

Project	Teralba Quarry
Created	2022-09-26 12:04:19 AEST by Anna McConville
Updated	2022-09-27 10:43:26 AEST by Anna McConville
Location	-32.95198807755061, 151.5873946795691
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	12:04

Box Details

Nestbox Number	2
----------------	---

Checking Results


Check Method	Nestbox camera
Pests?	N/A
Repairs required?	Yes
What sort of repairs?	Rehang fallen off tree
Repairs complete?	Yes
Occupation Evidence?	N/A

Media

Box Photo	
-----------	--



yes, 3

Project	Teralba Quarry
Created	2022-09-26 12:16:58 AEST by Anna McConville
Updated	2022-11-15 13:10:55 AEDT by Anna McConville
Location	-32.9528388894, 151.588016041
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	12:16

Box Details

Nestbox Number	3
----------------	---

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	Yes
What sort of repairs?	New tree tag
Repairs complete?	Yes
Occupation Evidence?	Yes
OccupationEvidenceType	Observed
Fauna Species Observed	Sugar Glider
Number of fauna Species	1
Count Accuracy	Minimum (at least ...)
OccupationComments	Looks like a single male, more like a sugar glider than squirrel due to blunt face


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



4

Project	Teralba Quarry
Created	2022-09-27 10:58:07 AEST by Anna McConville
Updated	2022-09-27 10:58:30 AEST by Anna McConville
Location	-32.953837174021594, 151.5882492253106
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-27
Time	10:58

Box Details

Nestbox Number	4
----------------	---

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



5

Project	Teralba Quarry
Created	2022-09-27 11:00:04 AEST by Anna McConville
Updated	2022-09-27 11:00:35 AEST by Anna McConville
Location	-32.95333627148806, 151.5883037076812
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-27
Time	11:00

Box Details

Nestbox Number	5
----------------	---

Checking Results

Check Method	Nestbox camera
Pests?	Yes
Pest Species	Ants
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)
OccupationComments	Old leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



6

Project	Teralba Quarry
Created	2022-09-27 10:55:33 AEST by Anna McConville
Updated	2022-09-27 10:56:20 AEST by Anna McConville
Location	-32.952629048407964, 151.587304165728
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-27
Time	10:55

Box Details

Nestbox Number	6
----------------	---

Checking Results

Check Method	Nestbox camera
Pests?	Yes
Pest Species	Mud Wasps
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



7

Project	Teralba Quarry
Created	2022-09-26 09:06:46 AEST by Anna McConville
Updated	2022-09-26 09:08:05 AEST by Anna McConville
Location	-32.96530336610318, 151.58478506854883
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	09:06

Box Details

Nestbox Number	7
----------------	---

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



yes, 8

Project	Teralba Quarry
Created	2022-09-26 09:14:17 AEST by Anna McConville
Updated	2022-09-27 09:56:07 AEST by Anna McConville
Location	-32.96553532049907, 151.58414999190586
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	09:14

Box Details

Nestbox Number	8
----------------	---

Checking Results


Check Method	Nestbox camera
Pests?	Yes
Pest Species	Termites
Repairs required?	Yes
What sort of repairs?	Lid ajar; screwed shut
Repairs complete?	Yes
Occupation Evidence?	No
OccupationComments	Still room for bats, termites just starting

Media

Box Photo	
-----------	--



9

Project	Teralba Quarry
Created	2022-09-26 09:10:46 AEST by Anna McConville
Updated	2022-09-26 09:12:12 AEST by Anna McConville
Location	-32.965525067442066, 151.5842048732113
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	09:10

Box Details

Nestbox Number	9
----------------	---

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	No
OccupationComments	Just bark in bottom likely from install

Media

Box Photo



10

Project	Teralba Quarry
Created	2022-09-26 09:25:52 AEST by Anna McConville
Updated	2022-09-26 09:26:46 AEST by Anna McConville
Location	-32.96543110347574, 151.58443745032784
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	09:25

Box Details

Nestbox Number	10
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	Yes
Pest Species	Termites
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest
OccupationComments	Termites only just started, lots of room


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



11

Project	Teralba Quarry
Created	2022-09-26 09:31:35 AEST by Anna McConville
Updated	2022-09-26 09:31:57 AEST by Anna McConville
Location	-32.96566437467278, 151.5846650396954
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	09:31

Box Details

Nestbox Number	11
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	No

Media

Box Photo



12

Project	Teralba Quarry
Created	2022-09-26 09:35:06 AEST by Anna McConville
Updated	2022-09-26 09:35:35 AEST by Anna McConville
Location	-32.96557949615296, 151.58468534822316
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	09:35

Box Details

Nestbox Number	12
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



yes, 13, Bloodwood

Project	Teralba Quarry
Created	2022-09-26 09:36:39 AEST by Anna McConville
Updated	2022-09-27 10:10:31 AEST by Anna McConville
Location	-32.96566068663538, 151.58483569524398
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	09:36

Box Details

Nestbox Number	13
Tree Species	Bloodwood
Box Type	Bat - HLH 2 chamber
Box Manufacturer	Hollow Log Homes
Material	Plywood
Aspect	44
Height	3.5

Checking Results

Check Method	Nestbox camera
Pests?	Yes
Pest Species	Termites
Repairs required?	Yes
What sort of repairs?	Replacement, termites have completely blocked entrance
Repairs complete?	Yes
Occupation Evidence?	No
OccupationComments	Large arboreal termite nest in tree, put box on new tree. Tree details are new box


Media

Box Photo





14

Project	Teralba Quarry
Created	2022-09-26 09:40:35 AEST by Anna McConville
Updated	2022-09-26 09:41:12 AEST by Anna McConville
Location	-32.96566537979866, 151.5848979397685
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	09:40

Box Details

Nestbox Number	14
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



15

Project	Teralba Quarry
Created	2022-09-26 09:43:24 AEST by Anna McConville
Updated	2022-09-26 09:43:42 AEST by Anna McConville
Location	-32.965323650308854, 151.58488322063496
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	09:43

Box Details

Nestbox Number	15
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	No

Media

Box Photo



16

Project	Teralba Quarry
Created	2022-09-26 09:49:11 AEST by Anna McConville
Updated	2022-09-26 09:50:02 AEST by Anna McConville
Location	-32.96497270002306, 151.5846351163011
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	09:49

Box Details

Nestbox Number	16
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	Yes
Pest Species	Termites
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest
OccupationComments	Termites eating outside but still lots of room inside


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



17

Project	Teralba Quarry
Created	2022-09-26 09:51:50 AEST by Anna McConville
Updated	2022-09-26 09:52:40 AEST by Anna McConville
Location	-32.96489671807081, 151.58473720788172
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	09:51

Box Details

Nestbox Number	17
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	Yes
Pest Species	Termites
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)
OccupationComments	Old Leaves in bottom, prob from install


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



18

Project	Teralba Quarry
Created	2022-09-26 09:46:31 AEST by Anna McConville
Updated	2022-09-26 09:46:57 AEST by Anna McConville
Location	-32.96512692704142, 151.58484810046068
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	09:46

Box Details

Nestbox Number	18
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



19

Project	Teralba Quarry
Created	2022-09-26 09:57:38 AEST by Anna McConville
Updated	2022-09-26 09:58:39 AEST by Anna McConville
Location	-32.96507512687982, 151.58506426974347
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	09:57

Box Details

Nestbox Number	19
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	Yes
Pest Species	Termites
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest
OccupationComments	Old leaf nest and termite occupation. Tree is dead now.


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



20

Project	Teralba Quarry
Created	2022-09-26 10:00:44 AEST by Anna McConville
Updated	2022-09-26 10:04:51 AEST by Anna McConville
Location	-32.96515935655767, 151.58517603635832
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:00

Box Details

Nestbox Number	20
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest
OccupationComments	Old leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



21

Project	Teralba Quarry
Created	2022-09-26 10:04:52 AEST by Anna McConville
Updated	2022-09-26 10:05:24 AEST by Anna McConville
Location	-32.96566852371492, 151.58542787670305
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:04

Box Details

Nestbox Number	21
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



22

Project	Teralba Quarry
Created	2022-09-26 10:07:39 AEST by Anna McConville
Updated	2022-09-26 10:08:08 AEST by Anna McConville
Location	-32.965511530668444, 151.5858801641982
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:07

Box Details

Nestbox Number	22
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



23

Project	Teralba Quarry
Created	2022-09-26 10:11:03 AEST by Anna McConville
Updated	2022-09-26 10:11:27 AEST by Anna McConville
Location	-32.96551126496295, 151.58585805083516
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:11

Box Details

Nestbox Number	23
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



24

Project	Teralba Quarry
Created	2022-09-26 10:13:10 AEST by Anna McConville
Updated	2022-09-26 10:13:32 AEST by Anna McConville
Location	-32.96560782930865, 151.58632011349297
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:13

Box Details

Nestbox Number	24
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



25

Project	Teralba Quarry
Created	2022-09-26 10:17:09 AEST by Anna McConville
Updated	2022-09-26 10:17:37 AEST by Anna McConville
Location	-32.96561581966727, 151.58644338214725
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:17

Box Details

Nestbox Number	25
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)
OccupationComments	Old leaves


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



26

Project	Teralba Quarry
Created	2022-09-26 10:18:50 AEST by Anna McConville
Updated	2022-09-26 10:19:27 AEST by Anna McConville
Location	-32.96582349268006, 151.58606788858242
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:18

Box Details

Nestbox Number	26
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	No
OccupationComments	Just wood shavings etc from install. Pic

Media

Box Photo



27

Project	Teralba Quarry
Created	2022-09-26 10:21:18 AEST by Anna McConville
Updated	2022-09-26 10:21:45 AEST by Anna McConville
Location	-32.96584706093356, 151.5860318692903
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:21

Box Details

Nestbox Number	27
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



28

Project	Teralba Quarry
Created	2022-09-26 10:25:35 AEST by Anna McConville
Updated	2022-09-26 10:26:01 AEST by Anna McConville
Location	-32.96585091392794, 151.5857948364239
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:25

Box Details

Nestbox Number	28
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	No
OccupationComments	Wood shavings only - pic

Media

Box Photo



29

Project	Teralba Quarry
Created	2022-09-26 10:27:58 AEST by Anna McConville
Updated	2022-09-26 10:28:28 AEST by Anna McConville
Location	-32.9655553261126, 151.58519511125198
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:27

Box Details

Nestbox Number	29
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)
OccupationComments	Prob just from install


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



30

Project	Teralba Quarry
Created	2022-09-26 10:31:02 AEST by Anna McConville
Updated	2022-09-26 10:31:36 AEST by Anna McConville
Location	-32.96521572962341, 151.5850952934134
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:31

Box Details

Nestbox Number	30
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)
OccupationComments	Prob from install


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



31

Project	Teralba Quarry
Created	2022-09-26 10:37:10 AEST by Anna McConville
Updated	2022-09-26 10:37:36 AEST by Anna McConville
Location	-32.963868666844704, 151.58439591538232
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:37

Box Details

Nestbox Number	31
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



yes, 32

Project	Teralba Quarry
Created	2022-09-26 10:42:29 AEST by Anna McConville
Updated	2022-09-27 10:19:01 AEST by Anna McConville
Location	-32.96392442097308, 151.5844477427337
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:42

Box Details

Nestbox Number	32
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	Yes
What sort of repairs?	New tree tag
Repairs complete?	Yes
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)
OccupationComments	Old bee hive remains; new tag says 132

Media

Fauna Video or Photo Recorded	Yes
Box Photo	



33

Project	Teralba Quarry
Created	2022-09-26 10:44:41 AEST by Anna McConville
Updated	2022-09-26 10:45:03 AEST by Anna McConville
Location	-32.96401940526472, 151.5841831870861
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:44

Box Details

Nestbox Number	33
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



34

Project	Teralba Quarry
Created	2022-09-26 10:49:24 AEST by Anna McConville
Updated	2022-09-26 10:59:31 AEST by Anna McConville
Location	-32.964039710381094, 151.58421317129537
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	10:49

Box Details

Nestbox Number	34
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Observed
Fauna Species Observed	White-throated treecreeper chicks
Number of fauna Species	3
Count Accuracy	Accurate
OccupationComments	Observed parent returning and ID as WTC

Media

Fauna Video or Photo Recorded	Yes
Box Photo	



35

Project	Teralba Quarry
Created	2022-09-26 14:59:00 AEST by Anna McConville
Updated	2022-09-26 14:59:21 AEST by Anna McConville
Location	-32.96360334850192, 151.59550007446816
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	14:59

Box Details

Nestbox Number	35
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



36

Project	Teralba Quarry
Created	2022-09-26 15:02:25 AEST by Anna McConville
Updated	2022-09-26 15:02:40 AEST by Anna McConville
Location	-32.96462040863276, 151.59611790455094
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	15:02

Box Details

Nestbox Number	36
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	No

Media

Box Photo



37

Project	Teralba Quarry
Created	2022-09-26 15:23:16 AEST by Anna McConville
Updated	2022-09-26 15:23:44 AEST by Anna McConville
Location	-32.96462636051387, 151.5952432353221
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	15:23

Box Details

Nestbox Number	37
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest
OccupationComments	Chews on entrance


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



yes, 38

Project	Teralba Quarry
Created	2022-09-26 15:27:52 AEST by Anna McConville
Updated	2022-09-27 12:12:45 AEST by Anna McConville
Location	-32.96393279920608, 151.59455199740043
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	15:27

Box Details

Nestbox Number	38
Aspect	188

Checking Results


Check Method	Nestbox camera
Pests?	N/A
Repairs required?	Yes
What sort of repairs?	Rehang
Repairs complete?	Yes
Occupation Evidence?	N/A

Media

Box Photo



39

Project	Teralba Quarry
Created	2022-09-26 15:26:22 AEST by Anna McConville
Updated	2022-09-26 15:26:56 AEST by Anna McConville
Location	-32.96377574472868, 151.59493672613382
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	15:26

Box Details

Nestbox Number	39
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)
OccupationComments	Chews on entrance


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



40

Project	Teralba Quarry
Created	2022-09-26 15:30:02 AEST by Anna McConville
Updated	2022-09-26 15:30:31 AEST by Anna McConville
Location	-32.963857445896565, 151.59435384920945
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	15:30

Box Details

Nestbox Number	40
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	Yes
Pest Species	Mud Wasps
Repairs required?	No
Occupation Evidence?	No

Media

Box Photo



yes, 41

Project	Teralba Quarry
Created	2022-09-26 15:31:53 AEST by Anna McConville
Updated	2022-09-27 12:26:22 AEST by Anna McConville
Location	-32.963852481454225, 151.59444666873853
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	15:31

Box Details

Nestbox Number	41
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	N/A
Repairs required?	Yes
What sort of repairs?	Lid replaced
Repairs complete?	Yes
Occupation Evidence?	N/A


Media

Box Photo	
-----------	--





42

Project	Teralba Quarry
Created	2022-09-26 15:04:42 AEST by Anna McConville
Updated	2022-09-26 15:05:02 AEST by Anna McConville
Location	-32.9639308143677, 151.59517218959522
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	15:04

Box Details

Nestbox Number	42
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	No

Media

Box Photo



43

Project	Teralba Quarry
Created	2022-09-26 15:06:14 AEST by Anna McConville
Updated	2022-09-26 15:06:37 AEST by Anna McConville
Location	-32.96415366765642, 151.59525716464552
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	15:06

Box Details

Nestbox Number	43
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



yes, 44

Project	Teralba Quarry
Created	2022-09-26 15:10:38 AEST by Anna McConville
Updated	2022-09-27 12:32:25 AEST by Anna McConville
Location	-32.96416221189596, 151.59520712695232
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	15:10

Box Details

Nestbox Number	44
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	Yes
What sort of repairs?	New tag
Repairs complete?	Yes
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest, Observed
Fauna Species Observed	Sugar/Squirrel Glider
Number of fauna Species	1
Count Accuracy	Minimum (at least ...)
OccupationComments	Old dead ones; chews on entrance

Media

Fauna Video or Photo Recorded	Yes
Box Photo	



45

Project	Teralba Quarry
Created	2022-09-26 15:12:58 AEST by Anna McConville
Updated	2022-09-26 15:13:21 AEST by Anna McConville
Location	-32.96446957628519, 151.5951362160515
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	15:12

Box Details

Nestbox Number	45
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



yes, 46

Project	Teralba Quarry
Created	2022-09-26 15:14:47 AEST by Anna McConville
Updated	2022-09-27 12:35:37 AEST by Anna McConville
Location	-32.96448051504075, 151.59518712277443
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	15:14

Box Details

Nestbox Number	46
Box Type	Bat - HLH 2 chamber
Box Manufacturer	Hollow Log Homes
Material	Plywood
Aspect	306
Height	3

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	Yes
What sort of repairs?	Shadecloth off and box coming away from back board. Replaced; new tag
Repairs complete?	Yes
Occupation Evidence?	No

Media

Box Photo



47

Project	Teralba Quarry
Created	2022-09-26 15:17:54 AEST by Anna McConville
Updated	2022-09-26 15:18:18 AEST by Anna McConville
Location	-32.96449006160868, 151.59516533145901
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	15:17

Box Details

Nestbox Number	47
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



yes, 48, Tallowwood

Project	Teralba Quarry
Created	2022-09-26 14:03:00 AEST by Anna McConville
Updated	2022-09-27 11:29:00 AEST by Anna McConville
Location	-32.955827806444965, 151.58878785707324
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	14:03

Box Details

Nestbox Number	48
Tree Species	Tallowwood
Box Type	Bat - HLH 2 chamber
Box Manufacturer	Hollow Log Homes
Material	Plywood
Aspect	190
Height	3

Checking Results


Check Method	Nestbox camera
Pests?	Yes
Pest Species	Termites
Repairs required?	Yes
What sort of repairs?	New box
Repairs complete?	Yes
Occupation Evidence?	No
OccupationComments	Box is only hanging by a vine that goes through it. Has termites and lid won't shut. Recommend replacement

Media

Box Photo	
-----------	--



49

Project	Teralba Quarry
Created	2022-09-26 14:05:36 AEST by Anna McConville
Updated	2022-09-26 14:06:47 AEST by Anna McConville
Location	-32.95600196228075, 151.58842094928545
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	14:05

Box Details

Nestbox Number	49
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	Yes
Pest Species	Termites
Repairs required?	No
Occupation Evidence?	No
OccupationComments	Recommend replacing soon, box has termite damage and rot. But will prob last a couple more years

Media

Box Photo



yes, 50, Tallowwood

Project	Teralba Quarry
Created	2022-09-26 14:11:04 AEST by Anna McConville
Updated	2022-09-27 11:37:34 AEST by Anna McConville
Location	-32.95577548913009, 151.58813732690325
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	14:11

Box Details

Nestbox Number	50
Tree Species	Tallowwood
Box Type	Bat - single chamber panel box
Box Manufacturer	Men's Shed
Material	Painted Plywood
Aspect	80
Height	3.5

Checking Results


Check Method	Nestbox camera
Pests?	N/A
Repairs required?	Yes
What sort of repairs?	Rehang
Repairs complete?	Yes
Occupation Evidence?	N/A
OccupationComments	Fallen off tree; rehang on same tree. Updated aspect and height for new tree

Media

Box Photo



51

Project	Teralba Quarry
Created	2022-09-26 14:14:11 AEST by Anna McConville
Updated	2022-09-26 14:14:27 AEST by Anna McConville
Location	-32.955788674976276, 151.58813188408735
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	14:14

Box Details

Nestbox Number	51
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	No

Media

Box Photo



52

Project	Teralba Quarry
Created	2022-09-26 14:16:51 AEST by Anna McConville
Updated	2022-09-26 14:17:33 AEST by Anna McConville
Location	-32.9554807814145, 151.58782702884784
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	14:16

Box Details

Nestbox Number	52
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)
OccupationComments	Can't see in too many leaves


Media

Fauna Video or Photo Recorded	No
-------------------------------	----

Box Photo



53

Project	Teralba Quarry
Created	2022-09-26 14:19:23 AEST by Anna McConville
Updated	2022-09-26 14:19:55 AEST by Anna McConville
Location	-32.955283052318684, 151.58788695945552
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	14:19

Box Details

Nestbox Number	53
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)
OccupationComments	Can't see in due to leaves


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



54

Project	Teralba Quarry
Created	2022-09-26 14:21:28 AEST by Anna McConville
Updated	2022-09-26 14:21:58 AEST by Anna McConville
Location	-32.95551682739648, 151.58758360426842
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	14:21

Box Details

Nestbox Number	54
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)
OccupationComments	Can't see in due to leaves


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



55

Project	Teralba Quarry
Created	2022-09-26 14:24:22 AEST by Anna McConville
Updated	2022-09-26 14:24:38 AEST by Anna McConville
Location	-32.95537829922133, 151.58746163101569
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	14:24

Box Details

Nestbox Number	55
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	No

Media

Box Photo



56

Project	Teralba Quarry
Created	2022-09-26 14:26:35 AEST by Anna McConville
Updated	2022-09-26 14:26:53 AEST by Anna McConville
Location	-32.95520405288137, 151.5872610827457
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	14:26

Box Details

Nestbox Number	56
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	No

Media

Box Photo



57

Project	Teralba Quarry
Created	2022-09-26 14:29:31 AEST by Anna McConville
Updated	2022-09-26 14:30:00 AEST by Anna McConville
Location	-32.95469439125895, 151.58665305948963
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	14:29

Box Details

Nestbox Number	57
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)
OccupationComments	Can't see in due to leaves


Media

Fauna Video or Photo Recorded	No
-------------------------------	----

Box Photo



58

Project	Teralba Quarry
Created	2022-09-26 13:05:38 AEST by Anna McConville
Updated	2022-09-26 13:06:12 AEST by Anna McConville
Location	-32.95387535796387, 151.59499180207484
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	13:05

Box Details

Nestbox Number	58
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest
OccupationComments	Chews around entrance


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



59

Project	Teralba Quarry
Created	2022-09-26 13:03:18 AEST by Anna McConville
Updated	2022-09-26 13:03:55 AEST by Anna McConville
Location	-32.953890482925765, 151.5950410814505
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	13:03

Box Details

Nestbox Number	59
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest
OccupationComments	Chews around entrance


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



60

Project	Teralba Quarry
Created	2022-09-26 13:08:59 AEST by Anna McConville
Updated	2022-09-26 13:09:44 AEST by Anna McConville
Location	-32.95388042464196, 151.59483723356536
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	13:08

Box Details

Nestbox Number	60
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)
OccupationComments	Chews on entrance; rot visible on inside


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



61

Project	Teralba Quarry
Created	2022-09-26 13:10:48 AEST by Anna McConville
Updated	2022-09-26 13:11:08 AEST by Anna McConville
Location	-32.9536440048386, 151.5950289076021
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	13:10

Box Details

Nestbox Number	61
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



62

Project	Teralba Quarry
Created	2022-09-26 13:13:02 AEST by Anna McConville
Updated	2022-09-26 13:13:59 AEST by Anna McConville
Location	-32.95362561478562, 151.5949933046024
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	13:13

Box Details

Nestbox Number	62
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



63

Project	Teralba Quarry
Created	2022-09-26 13:15:52 AEST by Anna McConville
Updated	2022-09-26 13:16:16 AEST by Anna McConville
Location	-32.95332320766623, 151.59501978876807
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	13:15

Box Details

Nestbox Number	63
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



64

Project	Teralba Quarry
Created	2022-09-26 13:18:40 AEST by Anna McConville
Updated	2022-09-26 13:19:08 AEST by Anna McConville
Location	-32.95318715743072, 151.59499791464916
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	13:18

Box Details

Nestbox Number	64
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



65

Project	Teralba Quarry
Created	2022-09-26 13:23:34 AEST by Anna McConville
Updated	2022-09-26 13:24:30 AEST by Anna McConville
Location	-32.952923865228286, 151.59470317840405
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	13:23

Box Details

Nestbox Number	65
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Observed
Fauna Species Observed	Sugar/Squirrel Glider
Number of fauna Species	3
Count Accuracy	Minimum (at least ...)
OccupationComments	Couldn't see enough of face for ID


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



66

Project	Teralba Quarry
Created	2022-09-26 13:27:31 AEST by Anna McConville
Updated	2022-09-26 13:28:08 AEST by Anna McConville
Location	-32.95286578327821, 151.59422590189018
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	13:27

Box Details

Nestbox Number	66
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaves (loose)
OccupationComments	Fresh looking leaves but no nest; chews on entrance


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



67

Project	Teralba Quarry
Created	2022-09-26 13:29:55 AEST by Anna McConville
Updated	2022-09-26 13:30:27 AEST by Anna McConville
Location	-32.95264740477591, 151.59411580315938
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	13:29

Box Details

Nestbox Number	67
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



no, 68

Project	Teralba Quarry
Created	2022-09-26 13:32:32 AEST by Anna McConville
Updated	2022-09-26 13:37:12 AEST by Anna McConville
Location	-32.95246367345839, 151.59384397803953
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	13:32

Box Details

Nestbox Number	68
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	Yes
What sort of repairs?	Tag off tree
Repairs complete?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest
OccupationComments	Looks like feather tail / Antechinus tight nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



69

Project	Teralba Quarry
Created	2022-09-26 13:34:57 AEST by Anna McConville
Updated	2022-09-26 13:35:39 AEST by Anna McConville
Location	-32.95246479587419, 151.59383749350357
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	13:34

Box Details

Nestbox Number	69
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



70, Stringybark/Mahogany

Project	Teralba Quarry
Created	2022-09-26 09:18:58 AEST by Anna McConville
Updated	2022-09-26 09:23:27 AEST by Anna McConville
Location	-32.965385578830116, 151.58414574544918
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	09:18

Box Details

Nestbox Number	70
Tree Species	Stringybark/Mahogany
Box Type	Bat - single chamber panel box
Box Manufacturer	Men's Shed
Material	Painted Plywood

Checking Results


Check Method	Nestbox camera
Pests?	Yes
Pest Species	Termites
Repairs required?	No
Occupation Evidence?	No
OccupationComments	Se aspect; still room for bats

Media

Box Photo



71

Project	Teralba Quarry
Created	2022-09-26 11:20:39 AEST by Anna McConville
Updated	2022-09-26 11:21:07 AEST by Anna McConville
Location	-32.96062261800557, 151.58240519478133
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	11:20

Box Details

Nestbox Number	71
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



72

Project	Teralba Quarry
Created	2022-09-26 11:24:15 AEST by Anna McConville
Updated	2022-09-26 11:24:31 AEST by Anna McConville
Location	-32.96087306927242, 151.5827344359379
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	11:24

Box Details

Nestbox Number	72
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	No

Media

Box Photo



73

Project	Teralba Quarry
Created	2022-09-26 11:27:38 AEST by Anna McConville
Updated	2022-09-26 11:28:05 AEST by Anna McConville
Location	-32.960947291025, 151.58281347728482
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	11:27

Box Details

Nestbox Number	73
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



74

Project	Teralba Quarry
Created	2022-09-26 11:25:42 AEST by Anna McConville
Updated	2022-09-26 11:26:09 AEST by Anna McConville
Location	-32.96111526436448, 151.58282194300702
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	11:25

Box Details

Nestbox Number	74
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	No
OccupationComments	Shavings from install pic

Media

Box Photo



75

Project	Teralba Quarry
Created	2022-09-26 11:33:17 AEST by Anna McConville
Updated	2022-09-26 11:33:41 AEST by Anna McConville
Location	-32.96039746448383, 151.5818531073547
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	11:33

Box Details

Nestbox Number	75
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



76

Project	Teralba Quarry
Created	2022-09-26 11:35:13 AEST by Anna McConville
Updated	2022-09-26 11:35:31 AEST by Anna McConville
Location	-32.96059365853019, 151.58152023344448
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	11:35

Box Details

Nestbox Number	76
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	No

Media

Box Photo



77

Project	Teralba Quarry
Created	2022-09-26 11:39:02 AEST by Anna McConville
Updated	2022-11-15 13:09:28 AEDT by Anna McConville
Location	-32.9604170099, 151.581801865
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	11:39

Box Details

Nestbox Number	77
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Observed
Fauna Species Observed	Squirrel Glider
Number of fauna Species	3
Count Accuracy	Minimum (at least ...)
OccupationComments	Look more like squirrel glider. It is a tall box. Probable ID


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



78

Project	Teralba Quarry
Created	2022-09-26 11:41:50 AEST by Anna McConville
Updated	2022-09-26 11:42:17 AEST by Anna McConville
Location	-32.96009308118848, 151.5817141875408
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	11:41

Box Details

Nestbox Number	78
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest


Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo



79

Project	Teralba Quarry
Created	2022-09-26 13:58:58 AEST by Anna McConville
Updated	2022-09-26 13:59:39 AEST by Anna McConville
Location	-32.9559876377428, 151.58897436980448
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	13:58

Box Details

Nestbox Number	79
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	Yes
Pest Species	Wasps
Repairs required?	No
Occupation Evidence?	No
OccupationComments	Something in the bottom but not moving - photo

Media

Box Photo



80

Project	Teralba Quarry
Created	2022-09-26 13:55:52 AEST by Anna McConville
Updated	2022-09-26 13:56:34 AEST by Anna McConville
Location	-32.955328063138715, 151.5895302315723
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	13:55

Box Details

Nestbox Number	80
----------------	----

Checking Results


Check Method	Nestbox camera
Pests?	Yes
Pest Species	Mud Wasps
Repairs required?	No
Occupation Evidence?	No
OccupationComments	Wood shavings from Install in bottom

Media

Box Photo



81

Project	Teralba Quarry
Created	2022-09-26 15:37:02 AEST by Anna McConville
Updated	2022-09-26 15:37:43 AEST by Anna McConville
Location	-32.963850069821774, 151.5940981173437
Survey Year	 2022

Job Details

Nestbox monitoring	
Job Number	74
Job Name	Teralba quarry
Observer Name	Anna
Date	2022-09-26
Time	15:37

Box Details

Nestbox Number	81
----------------	----

Checking Results

Check Method	Nestbox camera
Pests?	No
Repairs required?	No
Occupation Evidence?	Yes
OccupationEvidenceType	Leaf nest
OccupationComments	Old Ringtail drey?

Media

Fauna Video or Photo Recorded	Yes
-------------------------------	-----

Box Photo





71_20220926_1119



71_20220926_1119_1



73_20220926_1124



73_20220926_1124_1



73_20220926_1126



73_20220926_1126_1



75_20220926_1131



75_20220926_1131_1



77_20220926_113620_GI



78_20220926_1140



78_20220926_1140_1



79_20220926_1357



79_20220926_1357_1



80_20220926_1354



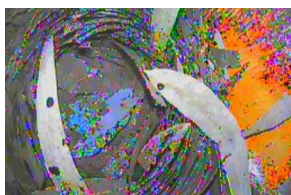
81_20220926_1534



81_20220926_1534_1



81_20220926_1534_2



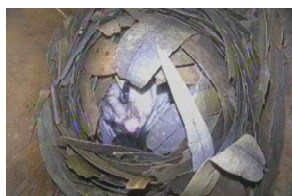
1_20220926_1200



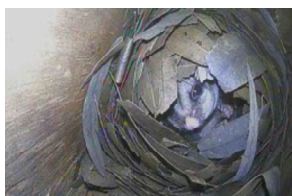
3_20220926_121312SugGI



3_20220926_121318SugGI



3_20220926_121412SugGI



3_20220926_121415SugGI



3_20220926_121417SugGI



3_20220926_121424SugGI



3_20220926_121427SugGI



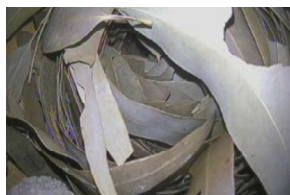
4_20220927_1056



4_20220927_1056_1



5_20220927_1058



6_20220927_1054



6_20220927_1054_1



7_20220926_0859



7_20220926_0859_1



10_20220926_0918



10_20220926_0918_1



12_20220926_0928



12_20220926_0928_1



14_20220926_0933



14_20220926_0933_1



16_20220926_0942



16_20220926_0942_1



17_20220926_0944



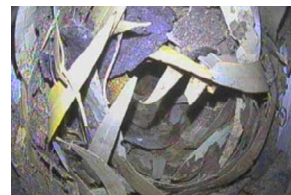
17_20220926_0944_1



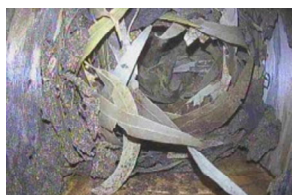
18_20220926_0939



18_20220926_0939_1



19_20220926_0949



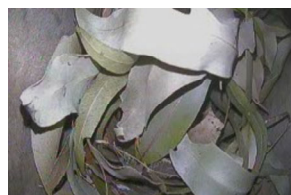
19_20220926_0949_1



20_20220926_0959



21_20220926_1003



21_20220926_1003_1



22_20220926_1006



22_20220926_1006_1



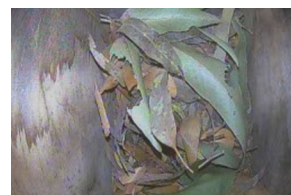
23_20220926_1009



23_20220926_1009_1



24_20220926_1011



24_20220926_1011_1



25_20220926_1015



25_20220926_1015_1



26_20220926_1017



26_20220926_1017_1



27_20220926_1019



28_20220926_1024



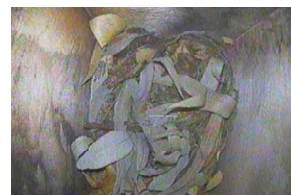
28_20220926_1024_1



29_20220926_1026



30_20220926_1029



30_20220926_1029_1



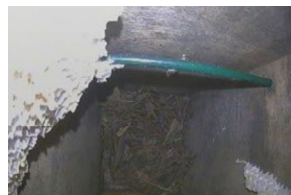
31_20220926_1035



31_20220926_1035_1



31_20220926_1035_2



32_20220926_1040



33_20220926_1043



35_20220926_1457



35_20220926_1457_1



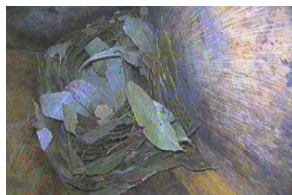
37_20220926_1521



39_20220926_1524



39_20220926_1524_1



43_20220926_1504



43_20220926_1504_1



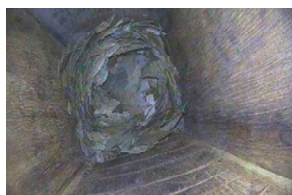
14_20220926_150905_deadG



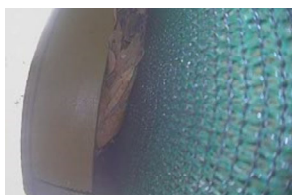
14_20220926_150908_deadG



45_20220926_1511



47_20220926_1516



53_20220926_1417



54_20220926_1420



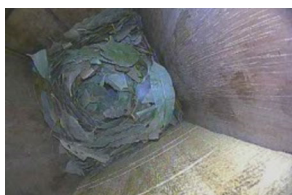
58_20220926_1303



58_20220926_1304



59_20220926_1301



59_20220926_1301_1



60_20220926_1307



61_20220926_1309



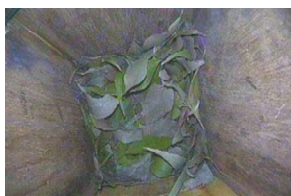
62_20220926_1311



63_20220926_1314



64_20220926_1317



64_20220926_1317_1



65_20220926_132002_GI



65_20220926_132005_GI



65_20220926_132210_GI



66_20220926_1326



67_20220926_1328



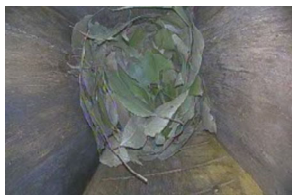
67_20220926_1328_1



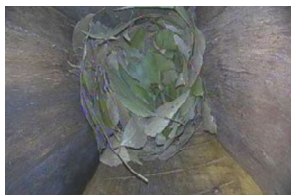
68_20220926_1331



68_20220926_1331_1



69_20220926_1333



69_20220926_1333_1

Appendix 3

2022 Community Consultative Committee Meeting Minutes

(Total No. of pages including blank pages = 6)



**MINUTES OF MEETING
TERALBA QUARRY
COMMUNITY CONSULTATIVE COMMITTEE (CCC)
Held on site at the Teralba Public School, Teralba**

DATE: Tuesday 17 May 2022

MEETING COMMENCED: 3.13pm

The project presentation forms as an attachment to these minutes.

PRESENT:

Member Name	Organisation
Lisa Andrews (LA)	Independent Chairperson
Colin Wright (CW)	Community Representative
Richard Metcalf (RM)	Teralba Public School
Mo Yunusa (MY)	Metromix – Manager of Quarries
Darryn Bosch (DB)	Metromix – Teralba Quarry Manager

APOLOGIES:

Cr Jason Pauling	Lake Macquarie City Council delegate
------------------	--------------------------------------

ITEM	ACTION
1.0 Welcome and Introductions LA opened the meeting at 3.13pm, thanking Richard Metcalf for hosting the CCC in the Library of the Teralba Public School.	
2.0 Apologies LA advised that Lake Macquarie Council has resolved that Cr Jason Pauling is its new delegate on this CCC. Unfortunately, Cr Pauling had a conflicting meeting and sent his apologies.	
3.0 Declaration of Interest LA advised that she was appointed by the Secretary of the Department of Planning, Industry and Environment (DPIE) as the Independent Chairperson for Teralba Quarry.	No changes to members' previously made declarations
4.0 Confirmation of Previous Minutes LA asked that the previous minutes of Wednesday 5 May 2021 be confirmed. Moving forward, LA stated that she would bring the confirmation of minutes in line with the DPE guidelines for CCCs, in that, following the meeting, the draft minutes will be forwarded to members within 2 weeks. Members will be provided one week to provide any feedback/proposed amendments to the chair. The draft minutes will be finalised	Moved: CW Seconded: RM

ITEM			ACTION
and uploaded to the project website. Noting also, that this being an annual meeting, it allows the minutes to be confirmed and available to the broader community.			Agreed.
5.0 Business Arising from Previous Minutes Action Items from 5/2/21:			Complete 11/5/21. Complete 17/5/21.
Item	Description	Responsibility	
1	Write to Cr Harrison thanking her for her contribution on the CCC.	MMH	
2	Write to DPIE requesting change in Independent Chairperson on this CCC	MMH	
CW sought clarification on some issues from the previous minutes, which were answered by MY.			
6.0 Correspondence As per meeting notice sent 4/5/22 with one additional item:			
<ul style="list-style-type: none">12/5/21 – Email to members with the draft minutes for review.20/7/21 – Email from DPIE appointment me as Independent Chairperson of CCC and requesting submission of completed Code of Conduct and Pecuniary/Non-Pecuniary Interest Forms.11/5/21 – Email to Cr Wendy Harrison thanking her for her representation of LMCC on this CCC and wishing her all the best for her future endeavours.17/5/21 – Email to DPIE advising that MMH is stepping down as IC and recommending LA as replacement.22/7/21 – Email to DPIE accepting appointment and submitting completed forms.1/3/22 – Email from LMCC advising that Cr Jason Pauling has been appointed as its delegate on this CCC.21/3/22 – Email to Cr Pauling, welcoming him to the CCC and providing a copy of the guidelines and governance forms for completion.4/5/22 - Email to members with the Meeting Notice, Agenda & Correspondence Report for this meeting.16/5/22 – Email to members with a reminder for this meeting.			
7.0 Reports/Updates - 2021 7.1 Sales – 721,114 tonnes 7.2 26 Blasts 7.3 Community Support: Donated \$12,000 to the Teralba Public School which went towards resurfacing the multipurpose basketball/netball court. (MY convinced the Metromix board to donate 50:50 with \$12k from Metromix & \$20k from the school.) 7.4 Community Complaints: One community complaint was received in 2021. i) On 01/10/2021 a local resident called the quarry to advise that a Metromix truck passed too close to him as he rode his horse along Wakefield Road. The complainant also advised that this was not the first time that Metromix trucks had passed too close to him while he rode his horse along Wakefield and Rhondda Roads. The complainant did not wish to provide the truck number in question during the call. MY apologised to complainant regarding his experience and advised that a company memo would be drafted and communicated to the transport team and Downer Asphalt. The complainant was contacted on 14th October where he was advised that the memo had been drafted and communicated to the transport department, Downer Asphalt and the Quarry. The complainant was then advised that the memo was on display at the quarry weighbridge and sign-in station so all drivers and visitors could view it. The complainant did not wish to receive a copy of the memo and advised that he had already noticed a positive change in driver behaviour with trucks slowing down and providing more room when passing him. The complainant thanked Metromix for its effort in resolving his complaint.			Questions were asked and answered throughout the presentation.

ITEM	ACTION																																
<div><ul style="list-style-type: none">Air Monitoring (Deposited Dust) results.Air Monitoring (Particulate Matter 10 PM₁₀)Transport Monitoring:<table><thead><tr><th></th><th>YTD March 2022</th><th>LYTD March 2021</th><th>Total 2021</th></tr></thead><tbody><tr><td>Sales (kt)</td><td>148.2</td><td>134.7</td><td>721.1</td></tr><tr><td>Production (kt)</td><td>150.8</td><td>117.7</td><td>688.7</td></tr><tr><td colspan="4">Truck Movements</td></tr><tr><th></th><th>YTD March 2022</th><th>LYTD March 2021</th><th>Total 2021</th></tr><tr><td>East Through Teralba</td><td>1,707</td><td>2,056</td><td>9,447</td></tr><tr><td>West - Rhondda Rd</td><td>4,472</td><td>3,841</td><td>20,235</td></tr><tr><td>Total</td><td>6,179</td><td>5,897</td><td>29,682</td></tr></tbody></table>Blast Monitoring results.</div>		YTD March 2022	LYTD March 2021	Total 2021	Sales (kt)	148.2	134.7	721.1	Production (kt)	150.8	117.7	688.7	Truck Movements					YTD March 2022	LYTD March 2021	Total 2021	East Through Teralba	1,707	2,056	9,447	West - Rhondda Rd	4,472	3,841	20,235	Total	6,179	5,897	29,682	
	YTD March 2022	LYTD March 2021	Total 2021																														
Sales (kt)	148.2	134.7	721.1																														
Production (kt)	150.8	117.7	688.7																														
Truck Movements																																	
	YTD March 2022	LYTD March 2021	Total 2021																														
East Through Teralba	1,707	2,056	9,447																														
West - Rhondda Rd	4,472	3,841	20,235																														
Total	6,179	5,897	29,682																														
<div><p>7.7 Lower Level Management Plans, managed by Mining Operation Services.</p><p>8 Ongoing Rehabilitation and Weeding Program A total of 849.25 hours were worked by T.E.N.T.A.C.L.E. staff performing environmental restoration and bush regeneration activities during 2021. A variety of weed control methods were used including the removal of target weed species through both manual and chemical controls such as cut/scrape and paint or splatter gun application of herbicide, hand removal or seed head removal. During 2021 a total of 1,260 native trees, shrubs and grasses were planted in the western portion of the Quarry along completed silt cells.</p><p>9 Nesting Box Monitoring Program Nesting boxes were inspected on 29th October 2021 by Echo Ecology and Surveying and the results of this report are summarised below:</p><ul style="list-style-type: none">One of the target species, namely Squirrel Gliders, were recorded as using the nesting boxes during the reporting period.Neither of the remaining target species, namely Little Lorikeets or microbats, were observed in the nesting boxes during the inspection.No nesting boxes were recorded as being occupied by Sugar Gliders.A further 32 nesting boxes contained leaves with depressions like those created by gliders, indicating that these boxes are used by either Squirrel or Sugar Gliders for sheltering.A total of nine boxes had leaves present (but no defined nest) indicating that animals had visited the nesting boxes.Ants were found in one of the boxes.Termites were found in another five of the boxes.No feral honey bees were observed.<p>10 Extraction In 2021 approx. 881,758t was extracted of which approx. 160,643t was overburden material.</p><p>11 Rehabilitation 2022 rehab campaign will use a total of 1.11Ha of seed mix and 1,327 plants. The continued wet weather has delayed the rehab campaign which will now commence in the first week of June 2022.</p><p>Proposed Activities 2022 (Maps & Legends)</p></div>	<div><p>See Slide 16</p><p>See Slides 17 & 18</p><p>See Slide 19</p><p>See Slide 20 for photograph.</p><p>See Slides 22 & 23</p></div>																																

ITEM	ACTION
<p>2021 Annual Environmental Review Submitted to the DPE on 28/03/2022. DPE responded in writing on the 26th April 2022 advising that there were no further actions required.</p> <p>Organisational Changes</p> <ul style="list-style-type: none"> ○ Adam Dwyer joined the business as the Quarry Technical Manager ○ Luke Cormick joined the business as the Teralba Quarry Supervisor ○ Andrew Lawrence and John Johnson were promoted to Leading Hands ○ Darryn Bosch was promoted to Teralba Quarry Manager ○ Mo Yunusa is now Manager of Quarries. <p>Rehabilitation – Photographs of Rehab 2015 through to 2021</p> <p>Teralba Mining Hazard MY provided an extensive presentation and summary of a mining hazard discovered on site following a production blast event on 4th November 2021, a cavity was identified in the eastern end of the South Pit. MY explained the history of the underground workings of previous mining activities, including the seams, dyke geology and the subsequent corrective actions carried out.</p>	<p>See Slides 25-33</p> <p>See Slides 34-61.</p>
<p>9 General Business Nil.</p>	
<p>8.0 Next Meeting It was agreed to continue to hold annual meetings. The next meeting is proposed for Wednesday 3 May 2023. Commencement time and venue to be confirmed.</p> <p>LA noted that an extra-ordinary CCC may be called by any member should anything arise.</p>	<p>Agreed.</p>

Meeting closed at 4.15pm with LA thanking all members for their attendance.

Following the meeting, the CCC members toured the school where RM showed the new COLA building, which was partly funded through donations from the Metromix Community Fund.

Action Items – Nil.

Appendix 4

2022 Community Complaints Register

(Total No. of pages including blank pages = 4)

2022 Community Complaints

Date	Issue/s	Outcome
<u>January</u> Date: Time: By: How:	Nil	Nil
<u>February</u> Date: Time: By: How:	Nil	Nil
<u>March</u> Date: Time: By: How:	Nil	Nil
<u>April</u> Date: Time: By: How:	Nil	Nil
<u>May</u> Date: Time: By: How:	Nil	Nil
<u>June</u>	A member of the public called the Resources Regulator to report a near miss between themselves and a White Prado that had entered Rhondda Road from the Teralba Quarry exit. The Resources Regulator called the Quarry Manager to discuss this report. The Resources Regulator advised that they do not control safety on public roads and therefore advised the complainant to contact the	The site staff have been tool-boxed of the reported incident and reminded that to exit and enter the site in a safe manner.

2022 Community Complaints

Date: Time: By: How:	local council. The Resources Regulator requested for the Quarry Manager to toolbox the quarry staff regarding the complaint. The 8.06.2022 7:30 pm Resources Regulator By phone	
<u>July</u> Date: Time: By: How:	Nil	Nil
<u>August</u> Date: Time: By: How:	Nil	Nil
<u>September</u> Date: Time: By: How:	Nil	Nil
<u>October</u> Date: 1st Time: 8:23am By: Jim Heaton How: Phone – Metromix Teralba land line number	Nil	Nil
<u>November</u> Date: Time: By: How:	Nil	Nil

2022

Community Complaints

<u>December</u> Date: Time: By: How:		
--	--	--

Appendix 5

Non-Compliances

(Total No. of pages including blank pages = 2)

2022 Non Compliances and Departures From Environment Plans, Procedures and Codes of Conduct.

Date	Non Compliance	Reason
January	Nil	Nil
February	Nil	Nil
March	Nil	Nil
April	Notified the EPA of the appointment of the new Teralba Quarry Manager more than 14 days post the commencement date	Human error
May	Nil	Nil
June	Nil	Nil
July	Nil	Nil
August	Nil	Nil
September	Nil	Nil
October	Nil	Nil
November	Nil	Nil
December		

Appendix 6

Bush Regeneration Annual Report 2022

Prepared by
T.E.N.T.A.C.L.E Incorporated

(Total No. of pages including blank pages = 16)

T.E.N.T.A.C.L.E INC.

The Education Network Training Applying Conserving Landbased Ecosystems

Bushland Regeneration Service

ABN: 39 738 451 129

Coordinator & Director – Christy Woolcock

Treasurer – Sue McDonnell

METROMIX TERALBA BUSH REGENERATION

Annual Report
2022

Table of Contents

Introduction.....	2
Background.....	2
Aims.....	3
Objectives	3
Hours Worked.....	3
Herbicide Used.....	3
Fauna Observations.....	4
Weeds Treated	5
Work Completed	6
Revegetation	7
Areas Worked.....	8
Recommendations	9
Conclusion.....	10
Photo Documentation.....	11

INTRODUCTION

The following report details the aims, objectives, hours worked, herbicide used, observations, bush regeneration activities, recommendations and the areas worked by Tentacle incorporated at Teralba Metromix quarry during 2022.

BACKGROUND

Works by Tentacle Incorporated were carried out in accordance with all currently applicable legislation including:

- Environmental Protection and Biodiversity Conservation Act 1999
- Pesticides Act 1999
- Protection of Environment Operations Act 1997
- National Parks and Wildlife Act 1974
- NSW Biodiversity Conservation Act 2016
- Lake Macquarie City Councils Local Environmental Plan 2014

All works were compliant with the conditions of the National Parks and Wildlife Services checklist, for bush regeneration activities in the habitat of threatened species, endangered populations, and endangered ecological communities. Bush regeneration techniques applied conformed to the best practice guidelines outlined within the Bush Regenerators handbook (National Trust of Australia, NSW 1999). The rehabilitation works aim to improve the overall natural condition of the site by controlling invasive weed species. The rehabilitation of native vegetation will increase biodiversity within the designated areas. Improved native vegetation communities will also protect waterways from increased sedimentation by enhancing erosion control and protecting and conserving the habitat for native and threatened flora and fauna. The works will improve the overall site condition of the site, encouraging an increase in native biodiversity.

AIMS

The bush regeneration works aim to restore and maintain ecosystem health by aiding the natural regeneration of indigenous plants and their communities. To manage the habitat for increased native biodiversity across the site by decreasing the population and abundance of weed species, reducing the weed density of the site. These works are performed in the best interest of Metromix's BioBanking initiative by maintaining areas of healthy vegetative status and improving those that are degraded.

OBJECTIVES

The objectives during this year were to undertake continue maintenance weeding across the site to ensure the weed density in areas previously weeded stays at a manageable level and does not become overrun with weeds. To complete primary weeding across the site, removing target weed species and reducing the overall weed density across the site. To maintain large populations of weed species by spraying in selected areas. To remove weeds from multiple stockpiles to reduce the spread of weeds throughout the site as well as out of the site. Furthermore, an objective this year was to plant out a range of native plant species in the prepared revegetation area.

HOURS WORKED

Approximately **1000.3** hours was worked this during 2022, performing environmental restoration and bush regeneration activities at Metromix Quarries Teralba by Tentacle Inc.

HERBICIDE USED

Approximately **7.535** liters of Roundup Biactive® Herbicide has been used for the treatment of woody and other environmental weeds during 2022. Roundup Biactive Herbicide was selected as the preferred form of chemical control as it is designed to be used in environmentally sensitive areas.

FAUNA OBSERVATIONS

A number of fauna observations were made throughout 2022 by the Tentacle team, to show the diverse fauna living in the area.

Table 1: A list of the fauna species identified on-site during 2022.

Common Name	Scientific name
Bell miner	<i>Manorina melanophrys</i>
Brown cuckoo-dove	<i>Macropygia phasianella</i>
Brush-tailed possum	<i>Trichosurus vulpecula</i>
Channel-billed cuckoo	<i>Scythrops novaehollandiae</i>
Chestnut teal	<i>Anas castanea</i>
Currawong	<i>Strepera graculina</i>
Eastern dwarf tree frog	<i>Litoria fallax</i>
Eastern grey kangaroo	<i>Macropus giganteus</i>
Eastern koel	<i>Eudynamys orientalis</i>
Eastern ringtail possum	<i>Pseudocheirus peregrinus</i>
Jacky dragon	<i>Amphibolurus muricatus</i>
Kookaburra	<i>Dacelo novaeguineae</i>
Land mullet	<i>Bellatorias major</i>
Magpie	<i>Cracticus tibicen</i>
Monarch butterfly	<i>Danaus plexippus</i>
Pelican	<i>Pelecanus conspicillatus</i>
Raven	<i>Corvus coronoides</i>
Satin bowerbird	<i>Ptilonorhynchus violaceus</i>
Scarlet honeyeater	<i>Myzomela sanguinolenta</i>
Silvereye	<i>Zosterops lateralis</i>
Sulphur-crested cockatoo	<i>Cacatua galerita</i>
Superb fairywren	<i>Malurus cyaneus</i>
Swamp wallaby	<i>Wallabia bicolor</i>
Water dragon	<i>Intellagama lesueurii</i>
Wedge-tailed eagle	<i>Aquila audax</i>
White-bellied sea eagle	<i>Haliaeetus leucogaster</i>
White-faced heron	<i>Egretta novaehollandiae</i>
Yellow-tailed black cockatoo	<i>Calyptorhynchus funereus</i>

WEEDS TREATED

A number weed species were treated, reducing the density of weeds throughout the site. Depending on the size and species of the plants, cutting/scraping and painting with glyphosate, hand removing, and spraying was used to treat weeds on site.

Table 2: A list of the weed species treated during 2022.

Common Name	Scientific name
African daisy	<i>Senecio pterophorus</i>
Arum lily	<i>Zantedeschia aethiopica</i>
Bitou bush	<i>Chrysanthemoides monilifera subsp. rotundata</i>
Blackberry nightshade	<i>Solanum nigrum</i>
Brazilian nightshade	<i>Solanum seaforthianum</i>
Camphor laurel	<i>Cinnamomum camphora</i>
Cape gooseberry	<i>Physalis peruviana</i>
Cassia	<i>Senna pendula var. glabrata</i>
Castor oil	<i>Ricinus communis</i>
Climbing asparagus	<i>Asparagus plumosus</i>
Costal morning glory	<i>Ipomoea cairica</i>
Crofton	<i>Ageratina adenophora</i>
English ivy	<i>Hedera helix</i>
Fireweed	<i>Senecio madagascariensis</i>
Fishbone fern	<i>Nephrolepis cordifolia</i>
Fleabane	<i>Conyza sp</i>
Green cestrum	<i>Cestrum parqui</i>
Ground asparagus	<i>Asparagus aethiopicus</i>
Inkweed	<i>Phytolacca octandra</i>
Jacaranda	<i>Jacaranda mimosifolia</i>
Lantana	<i>Lantana camara</i>
Morning glory	<i>Ipomoea purpurea</i>
Morning glory	<i>Ipomoea purpurea</i>
Moth vine	<i>Araujia sericifera</i>
Ochna	<i>Ochna serrulata</i>
Pampas grass	<i>Cortaderia sp</i>
Paspalum	<i>Paspalum dilatatum</i>
Purple top	<i>Verbena bonariensis</i>
Scotch thistle	<i>Onopordum sp</i>
Small leaf privet	<i>Ligustrum sinense</i>
Stinking roger	<i>Tagetes minuta</i>
Turkey rhubarb	<i>Rumex sagittatus</i>
Wild tobacco	<i>Solanum mauritianum</i>

WORK COMPLETED

Maintenance weeding was completed throughout the rehab area. The weeds targeted include annuals, fireweed, ink weed, and pampas grass. Maintenance weeding in the rehab area allows for the increased growth of the planted natives without competition from invasive species.

Spraying was done across the site in multiple sections. Spraying was done behind the fuel pump station and surrounding area to reduce the risk of fire and seed dispersal. To reduce seed distribution across the site spraying of annual was done along the road from Dam-A to the top of Dam-D. Lantana and crofton was sprayed between Dam-D and the Additt dam road. Crofton and lantana were sprayed north of the boom gate.

Several sweeps were done north of the boom gate targeting crofton, pampas grass, cassia, lantana, and wild tobacco. Primary and maintenance weeding was completed on both sides of the bushland of the Additt dam road, targeting lantana, crofton, wild tobacco, green cestrum, morning glory, fishbone fern, small leaf privet, turkey rhubarb, ochna, scotch thistle, cassia, moth vine, ink weed, fire weed, English ivy, castor oil, cape gooseberry, camphor laurel, Brazilian nightshade and bitou bush.

Primary and maintenance weeding was completed northeast of the rehab area, targeting lantana, crofton and wild tobacco. A sweep was done through the bushland south of Dam-A, targeting crofton and lantana. A section of lantana and crofton was removed south of Dam-D. A sweep of was completed north of Dam-A targeting cassia, lantana, green cestrum, and moth vine. Annuals were hand removed from the stockpile between the pugmill and the rehab area, in addition to the Anna Bay sands stockpile.

REVEGETATION

During June 2022 an area that was prepared by Metromix was planted out with an assortment of approximately 1300 native tree, grass, and shrub species. Native plant seeds were spread out through the area by Global Soil Systems before planting took place. Plant guards were placed around the tree and shrub species to reduce the risk of damage from fauna. Mulch was placed around the tree and shrub species to help retain moisture and reduce weed species from growing around the natives.

Maintenance weeding was done through the previously planted revegetation areas. The natives planted have continued to survive and are continuing to grow. These areas have minimal weed species and only require small amounts of maintenance weeding in the future. Fence guards were removed from the previous year's plants, in preparation for the planting that took place in June.





Figure 1: Photo showing the plants that were planted in June 2022.

AREAS WORKED



Figure 2: Map showing the photo point locations and areas worked in 2022.

Key	
	Areas Worked
	Planted Revegetation Area
PP	Photo Point Locations

RECOMMENDATIONS

Seed dispersal of native seeds from seeds found on site is recommended where appropriate, this will allow for greater regeneration in addition to help erosion control. Areas where previously sprayed will be revisited within 4-6 weeks after the initial spray to reduce seedling growth. Spraying around infrastructure is recommended to reduce the risk of weed seeds being spread across the entire site. When possible, spraying after rain events is recommended, this will allow dust to be removed for more effective results. Sweeping over areas previously worked within 6 weeks of initial works being completed to prevent weeds from reinfesting the areas cleared, in addition to targeting weeds before they set seed is recommended.

It is recommended to concentrate on targeting weeds in gullies, reducing seed dispersal throughout the site in addition to reducing the risk of weeds being spread out of site. Focus on targeting weeds of national significance is recommended, which 7 have been identified on site (Bitou bush, blackberry, climbing asparagus, fireweed, ground asparagus, lantana madeira vine). Create corridors to allow easier access to larger thickets of weeds is recommended.

Continued monitoring and maintenance weeding of the rehab area is advised to prevent these areas becoming overtaken by weed species, allowing the natives planted to become established with little competition from weeds. Continued primary and secondary weeding of large thickets of lantana and croften across the site is recommended. Removing weeds around the inner of the quarry to reduce weed seeds spreading into stockpiles and being transport outside of the site is advised.

Permanent photo points will be set up in appropriate locations with star pickets or inground markers to show the long-term changes of the site. Larger weed trees will be frilled and injected on site to reduce the number of emerging seedlings across the site. Where applicable treated weeds will be left in situ to allow for bird perches and habitat for other fauna, this will stabilize the soil decreasing erosion.

CONCLUSION

The Primary, secondary and maintenance weeding that was completed during this quarter has reduced the overall weed density of the site while increasing the biodiversity in the areas worked by allowing increased natural regeneration to take place. Continued primary, secondary and maintenance weeding will continue throughout the site during 2023. Spraying of annuals, crofton and lantana has helped reduce the weed spread throughout the site and will assist in off-site dispersal. Spraying will take place where applicable next year to decrease the weeds on site and decrease seed dispersal.

The treatment of weeds around the dams this quarter will reduce the spread of weeds leaving the site and infesting the surrounding areas downstream. Further maintenance weeding will be completed in 2023 around Dam-A and Dam-D to stop these areas from becoming reinfested with weed species.

Revegetation planting was completed this year with guards and mulch placed around the plants. Continued maintenance weeding of all the revegetation areas was continued throughout the year to allow the natives to have the best chance of survival, stopping competition from weeds.

Continued maintenance weeding of all the revegetation areas will continue throughout next year to allow the natives to have the best chance of survival, stopping competition from weeds. Maintenance weeding and spraying within the 20-meter perimeter behind the fuel pump station that was completed this year will reduce the risk of fire coming into contact with the fuel station.

PHOTO DOCUMENTATION



Figure 3: Photo Point 1 – A before photo of a large thicket of lantana.



Figure 4: Photo Point 1 – Lantana after being cut and painted.



Figure 5: Photo Point 2 – A before photo of a large thicket of lantana.



Figure 6: Photo Point 2 – Lantana after being cut and painted and sprayed.



Figure 7: Photo Point 3 – A before photo of an area of lantana, crofton and cassia.



Figure 8: Photo Point 3 – Area after being treated.



Figure 9: Photo Point 4 – A before photo of an area of morning glory.



Figure 10: Photo Point 4 – Area after morning glory was scrape and painted.