



# Buttai Quarry

Community Consultative Committee Meeting  
February 2024

- Issues arising from previous meetings;
- Summary of operations;
- Overview of quarry operations:
  - Air quality;
  - Noise;
  - Flora and Fauna management;
  - Blast Management;
  - Incidents / Complaints
  - Rehabilitation;
- Summary of temporary increase in laden truck movements from the quarry, discuss potential extension;
- Resource Recovery Facility (RRF) update including Old Buttai Rd upgrade matter;
- Planned quarry activities for 2024;

- Previous meeting minutes reviewed with any outstanding actions noted and agreed;
- Kate Baartz to allocate actions and responsibilities for all ongoing items;

- Quarrying continuing in Lot 76;
- Crushing and stockpiling of quarried materials continuing;
- The quarry continues to provide various essential construction materials for the local construction industry and government sectors;
- 2023 was quite busy from a quarrying perspective with the capacity to export up to 100 laden trucks per day greatly assisting our capacity to supply local projects efficiently;
- A total of 9 blasts were conducted during 2023;

- 1 external site environmental inspection occurred during 2023 (Rubicon);
- 1 external site inspection by the Resource Regulator during 2023;
- 3 Internal Environmental Audits occurred during 2023;

- **Air quality**
  - Assessed against NSW EPA Annual Average Criterion ( $4 \text{ g/m}^2/\text{month}$ ) for Dust Deposition Gauges (DDG);
  - All annual average results received for all DDG's were below the  $4 \text{ g/m}^2/\text{month}$  threshold including the Buttai Barn result;
  - We continue to report the elevated results obtained at 'Buttai Barn' and 'Buttai Barn #2, however they intermittently appear to be erroneous and inconsistent with the adjacent DDG monitors;

# Overview of quarry operations

## Air quality monitoring results January to December 2023

	D1 - Tetratheca	D2 - Norma	D3 - Buttai Barn	D4 - Bishop	D5 - Buttai Barn #2
16/12/22 to 13/01/23	0.8	1.1	0.5	0.8	0.5
13/01/23 to 10/02/23	5.7	1.5	0.8	0.7	0.7
10/02/23 to 10/03/23	1.3	1.2	0.4	0.3	0.7
10/03/23 to 11/04/23	1.1	1.2	0.6	3.9	3.4
11/04/23 to 09/05/23	3.1	5	0.6	1.1	1.7
09/05/23 to 06/06/23	0.8	0.8	1.3	1.3	0.7
06/06/23 to 04/07/23	1.1	0.5	2.2	1.3	0.6
04/07/23 to 01/08/23	0.6	0.4	5.6	0.7	0.3
01/08/23 to 29/08/23	0.6	0.8	2	0.9	0.5
29/08/23 to 26/09/23	0.7	1.4	1.7	0.9	0.7
26/09/23 to 24/10/23	0.8	0.9	1.1	0.9	0.9
24/10/23 to 21/11/23	0.3	1	0.6	0.7	0.5
21/11/23 to 19/12/23	1.6	0.3	0.6	0.4	0.7
Annual Average	1.42	1.24	1.38	1.07	0.92

- **Noise**

- Noise monitoring is undertaken by Spectrum Acoustics who conducted 4 monitoring sessions during 2023. This is in accordance with the noise management plan;
- All results obtained were within the specified limits;



## Noise monitoring results for 2023

Table 1				
Buttai Quarry Noise Monitoring Results – 27 February 2023				
Location	Time	dB(A) L <sub>10</sub>	Wind speed/ direction	Identified Noise Sources
1	10:55 am	48	1.0 m/s SE	Birds & insects (48), plant noise <sup>1</sup> (33), <b>BQ occasionally audible</b>
2	11:40 am	41	1.0 m/s SE	Birds & insects (39), birds (36), <b>BQ inaudible</b>
3	11:17 am	42	1.0 m/s SE	Birds & insects (42), plant noise <sup>1</sup> (25), <b>BQ occasionally audible</b>

1 not quarry related (see text)

At locations 1 and 3 the measurements were influenced by noise from plant operating to the east of the monitoring locations. This is the opposite direction to BQ. The noise was possibly related to land clearing or construction activities.

# Overview of quarry operations

Table 1

**Buttai Quarry Noise Monitoring Results – 11 May 2023**

Location	Time	dB(A) L <sub>10</sub>	Wind speed/ direction	Identified Noise Sources
1	10:30 am	41	1.5 m/s N	Birds (40), traffic (34), <b>BQ inaudible</b>
2	11:12 am	42	1.0 m/s N	Birds (40), construction noise (35), traffic (32), <b>BQ inaudible</b>
3	10:52 am	40	1.0 m/s NE	Birds & frogs (40), traffic (30), <b>BQ (28)</b>

Table 1

**Buttai Quarry Noise Monitoring Results – 17 August 2023**

Location	Time	dB(A) L <sub>10</sub>	Wind speed/ direction	Identified Noise Sources
1	11:32 am	39	2.5 m/s N	Birds (36), traffic (36), <b>BQ (24)</b>
2	10:50 am	36	2.5 m/s N	Birds (33), traffic (32), <b>BQ (22)</b>
3	11:10 am	36	1.9 m/s N	Birds & frogs (35), <b>BQ (27)</b>

# Overview of quarry operations

Table 1				
Buttai Quarry Noise Monitoring Results – 22 November 2023				
Location	Time	dB(A) L <sub>10</sub>	Wind speed/ direction	Identified Noise Sources
1	11:30 am	41	3.5 m/s SW	Birds & insects (40), traffic (34), BQ inaudible (<20)
2	11:50 am	38	2.5 m/s SW	Birds & insects (36), traffic (33), BQ inaudible (<20)
3	12:15 am	39	3.0 m/s SW	Birds & insects (39), traffic (26), BQ inaudible (<20)

- **Flora and Fauna**

- The quarry footprint and extent of clearing was altered along the northern and eastern edges of the quarry pit;
- Wild Thing Ecological services were again engaged to inspect and plan for clearing operations whilst also assisting during vegetation removal activities;
- Maintenance of fire trails and boundary lines continued to occur during 2023;
- Ongoing consultation with the Rural Fire Service (RFS) continues to occur as necessary;

- **Blast Management**
  - 9 blasts have been conducted during 2023 with all being within the allowable limits;
  - Blast monitoring results are shown on the next slide;

# Overview of quarry operations

## Blast monitoring results for 2023

			Norma Brookes		Lings Rd		Buttai Barn	
<u>Date</u>	<u>Time</u>	<u>Blast No.</u>	<u>PPV mm/s</u>	<u>O/pressure dBL</u>	<u>PPV mm/s</u>	<u>O/pressure dBL</u>	<u>PPV mm/s</u>	<u>O/pressure dBL</u>
18/01/2023	13:39	P_109	0.55	106.1	No trigger	No trigger	No trigger	No trigger
20/02/2023	14.:03	P_110	No trigger	No trigger	0.51	106.1	0.46	104.7
3/04/2023	11:46	P_111	0.59	107.9	0.49	102.4	No trigger	No trigger
7/06/2023	12:47	P_112	0.99	107	0.82	110.8	0.52	105.7
10/08/2023	12:28	P_113	1.04	111.2	0.62	108.7	No trigger	No trigger
29/09/2023	11:25	P_114	No trigger	No trigger	No trigger	No trigger	0.56	108.8
27/10/2023	12:06	P_115	No trigger	No trigger	0.63	102.5	0.59	98.5
24/11/2023	12:35	P_116	No trigger	No trigger	0.61	113.6	No trigger	No trigger
21/12/2023	12:11	P_117	No trigger	No trigger	0.69	104.2	0.71	112.1

- **Incidents / complaints**

- Apart from some slightly elevated DDG results, there were no significant incidents or complaints during 2023 other than intermittent trespassing and the presence of a Cleanaway truck on Lings Rd;

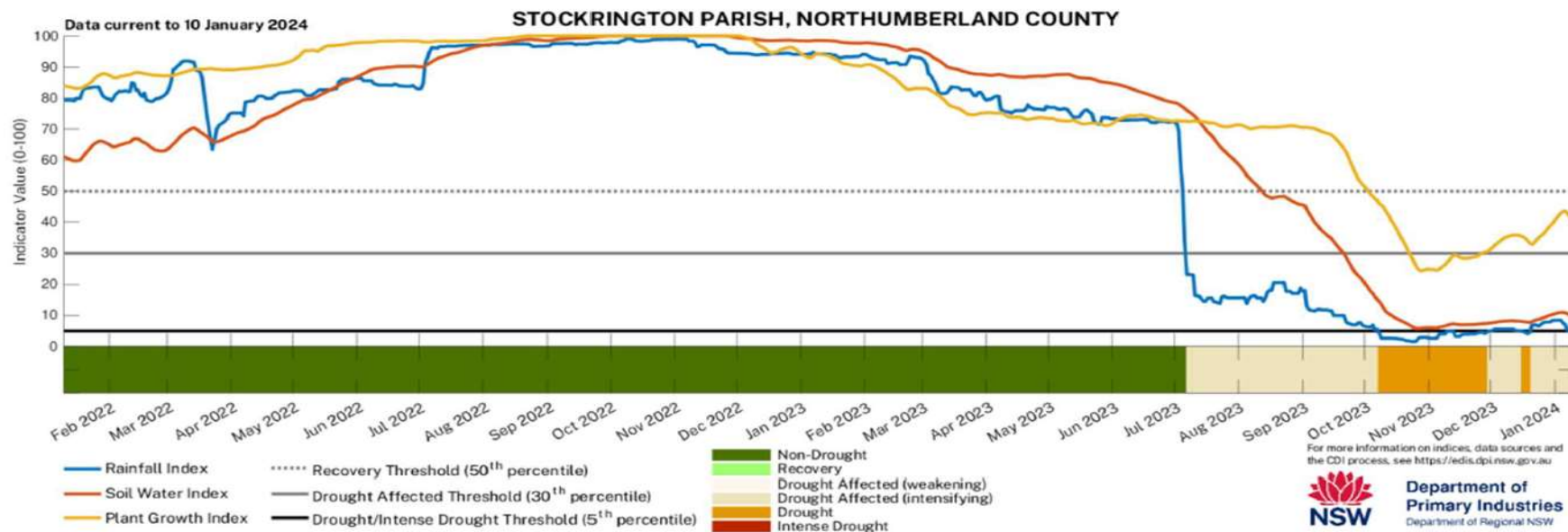
- **Rehabilitation**

- Maintenance of the rehabilitation of Bench 2 and 3 continued during 2023;
- Maintenance of various other rehabilitated areas also occurred during 2023;
- As a results of the November 2022 CCC site inspection and subsequent 2023 annual rehabilitation inspection undertaken by Umwelt, we're proposing to install more plants on Benches 2 and 3 using the suggested 'sticky hop-bush' (*Dodonaea viscosa* subsp. *cuneata*) along with additional mulch during Autumn 2024;



# Overview of quarry operations

- As noted in the Umwelt rehabilitation report, during the latter part of 2023 and early 2024, the region was experiencing drought conditions as shown in this image:



- Site water is therefore scarce at the moment, as shown in the following images;



# Overview of quarry operations



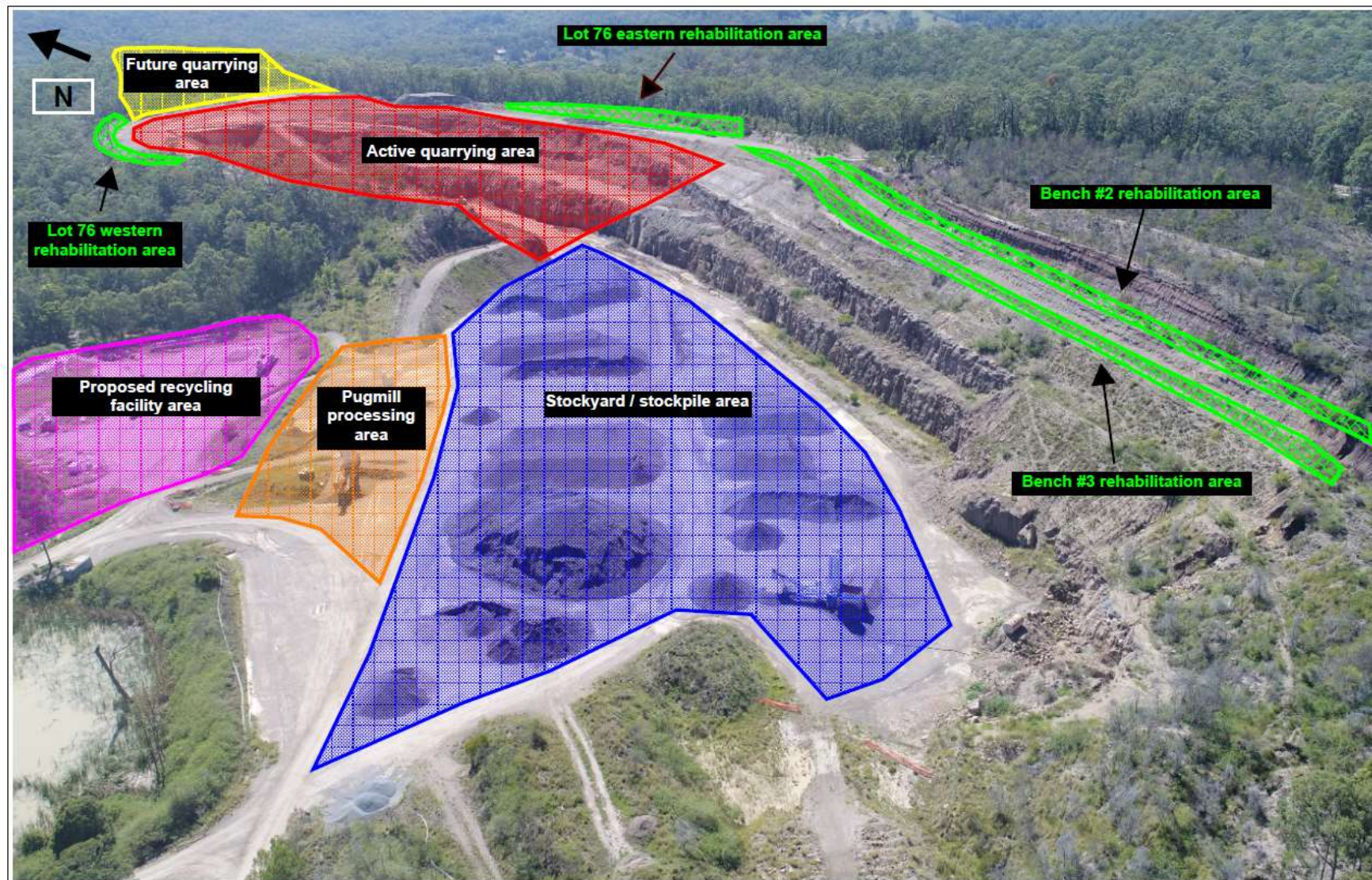


# Overview of quarry operations





# Overview of quarry operations





- Following an extensive consultation process during late 2022 and the subsequent submission of a 'standalone DA' to temporarily increase laden truck movements from the quarry (60 laden to 100 laden) for 12 months, Council granted approval to undertake this task on 30 May 2023;
- The additional truck movements commenced on 7<sup>th</sup> June 2023 and must cease early in June 2024. Daracon must submit quarterly reports including, but not limited to a daily summary of laden truck movements;
- The first two quarterly reports have been submitted to Council with a copy of the laden truck details is shown on the next two slides;

# Increase in laden trucks

## Laden truck movements from Buttai quarry for the period 7/6/23 to 7/9/23

Date	Laden truck count
7-Jun	88
8-Jun	87
9-Jun	77
14-Jun	20
15-Jun	23
16-Jun	11
19-Jun	37
20-Jun	39
21-Jun	63
22-Jun	86
23-Jun	40
26-Jun	71
27-Jun	70
28-Jun	54
29-Jun	44
30-Jun	73
3-Jul	59
4-Jul	28
5-Jul	58
6-Jul	58
7-Jul	58
10-Jul	44
11-Jul	84
12-Jul	53
13-Jul	76
14-Jul	39
17-Jul	39
18-Jul	53
19-Jul	58
20-Jul	58
21-Jul	35
25-Jul	83

26-Jul	98
27-Jul	75
28-Jul	78
31-Jul	41
1-Aug	46
2-Aug	78
3-Aug	86
4-Aug	85
7-Aug	12
8-Aug	22
9-Aug	56
10-Aug	26
11-Aug	33
14-Aug	1
15-Aug	4
16-Aug	32
17-Aug	89
18-Aug	36
21-Aug	74
22-Aug	78
23-Aug	25
24-Aug	28
25-Aug	67
26-Aug	15
28-Aug	32
29-Aug	35
30-Aug	36
31-Aug	29
1-Sep	45
4-Sep	42
5-Sep	64
6-Sep	67
7-Sep	40

# Increase in laden trucks

<b>Laden truck movements from Buttai quarry for the period 07/09/23 to 07/12/23</b>	
Date	Laden truck count
7-Sep	40
8-Sep	20
11-Sep	41
12-Sep	65
13-Sep	70
14-Sep	44
15-Sep	43
18-Sep	17
19-Sep	44
20-Sep	24
21-Sep	43
22-Sep	63
25-Sep	44
26-Sep	51
27-Sep	33
28-Sep	14
4-Oct	14
5-Oct	48
6-Oct	68
9-Oct	72
10-Oct	68
11-Oct	31
12-Oct	48
13-Oct	44
16-Oct	63
17-Oct	49
18-Oct	91
19-Oct	83
20-Oct	50
23-Oct	47
24-Oct	78
25-Oct	53
26-Oct	20
27-Oct	15
30-Oct	71
31-Oct	89
1-Nov	94
2-Nov	65

3-Nov	46
7-Nov	47
8-Nov	50
9-Nov	42
10-Nov	7
13-Nov	13
14-Nov	55
15-Nov	32
16-Nov	61
17-Nov	16
20-Nov	74
21-Nov	92
22-Nov	66
23-Nov	85
24-Nov	70
25-Nov	32
27-Nov	87
28-Nov	74
29-Nov	28
30-Nov	99
1-Dec	100
4-Dec	99
5-Dec	98
6-Dec	100
7-Dec	99

- As the previous slides demonstrate, laden truck movements in the first five months since the temporary DA commenced were well below the maximum 100 laden truck movements permitted during this period;
- Only on 51 days of the 120 plus days the quarry operated with the ability to generate a maximum of 100 laden trucks per day, did the number of truck generated exceed the previous limit of 60 laden trucks per day;



- This temporary increase has allowed several major infrastructure projects, including those listed below, to be serviced with essential construction materials:
  - John Holland M1 to Raymond Terrace (M12RT);
  - Seymour Whyte M1 to Raymond Terrace (M12RT);
  - Hexham Straights Widening Alliance (HSWA);
  - Fulton Hogan Jesmond to Rankin Park (J2RP);
  - NCC Astra St Landfill;
  - Many others;
- Given the successful operation of the increased truck movements to date, feedback on the potential to extend the 12 months temporary approval as permitted in Condition No 2 is being sought;

- Whilst the temporary increase to laden trucks has been operating, we've not received any adverse feedback from the community or other stakeholders;
- There's not been any incidents or accidents associated with this operation;
- All noise and air quality monitoring results have been compliant;
- We therefore wish to explore and understand the CCC's opinion about the possibility of extending the current 12 month approval for an additional 12 months;

- The RRF was approved in June 2021;
- The Old Buttai road upgrade design was rejected by the Council Traffic Committee on the 26<sup>th</sup> July 2023;
- Following a substantial consultation exercise, we eventually managed to obtain approval of the Old Buttai Rd upgrade design and therefore received our S138 approval on the 18<sup>th</sup> December 2023;
- We've therefore recommenced the process to obtain a Construction Certificate for the RRF and will submit that information to Council shortly;
- We're hoping to commence operating the RRF some time later in 2024;

- Further extraction and sale of quarried materials;
- Continued dust, noise and blast monitoring;
- Continued maintenance of rehabilitation work as required;
- Progression of the Resource Recovery Facility (RRF);
- Continuation of quarterly reporting on the temporary increase in laden truck movements from the quarry.

Further questions?