

MODIFICATION OF SPRING FARM QUARRY CONSENT (DA 75/256)

Lot 22 (No. 186) DP 833317 and Part
Lot 32 (No. 172) (DP 635271)

Macarthur Road, Spring Farm

ENVIRONMENTAL ASSESSMENT



Prepared For:



M. Collins and Sons Holdings Pty Ltd

APPENDIX G



Prepared By:

February 2018



KOIKAS ACOUSTICS PTY LTD

CONSULTANTS IN NOISE & VIBRATION

ABN 12 058 524 771

Commercial 1 (Unit 27)

Ph: (02) 9587 9702

637 - 645 Forest Road

Fax: (02) 9587 5337

BEXLEY NSW 2207

E-mail: Office@KoikasAcoustics.com

Date: Monday, 25th September 2017
Our Reference: Z:\ACOUSTICS\ACOUSTICS
17\REPORT\Other\2054C20170925mfcLot22&33MacarthurRdSpringFarmv2.docx
Project No.: 2054
Prepared For: Collins Construction Materials
Attention: Jason Lewis / Matt Collins
Email: jlewis@mcollins.com.au / matt@mcollins.com.au

CERTIFICATE OF COMPLIANCE & FORESHADOWED COMPLIANCE
QUARRY OPERATIONAL NOISE IMPACT AT LOT 22 & 32, MACARTHUR ROAD, SPRING FARM

INSTRUCTIONS

Koikas Acoustics Pty Ltd was requested to undertake noise compliance testing of the quarry operation at Lot 22 & 32 in order to demonstrate that the noise compliance can foreseeably be achieved for extended timeframe (additional two years).

PREVIOUS ACOUSTIC REPORT

This certificate of compliance and foreshadowed compliance should be read in conjunction with the previous acoustic report prepared by Koikas Acoustics. Details are provided below:

Acoustic Assessment Prepared by Koikas Acoustics

Report Title: *Acoustic Assessment*
Plant & Equipment Noise
Sand/Soil Quarry at Macarthur Road, Spring Farm
Report Ref: *2054B20120216mfcSpringFarmv2.docx*
Date: *16/02/2012*
Version: *V2*

Hereafter referred to as the 'acoustic report'.

KOIKAS ACOUSTICS PTY LTD
Date: 25th September 2017
Reference: 2054C20170925mfcLot22&33MacarthurRdSpringFarmv2
Prepared For: Collins Construction Materials
Certificate of Compliance: *Quarry Operational Noise Impact at Lot 22 & 32, Macarthur Road, Spring Farm*

REQUIREMENTS

The aim of the noise compliance testing is to address the requirement from the certifying authority of compliance with the nominated noise criterion for the extended timeframe of two additional years.

The certifying authority has requested the following:

An assessment of the likely impacts of operational noise and vibration due to the development's extended timeframe in accordance with NSW Industrial Noise Policy and the Interim Construction Noise Guideline.

As per the acoustic report, the Licence noise criterion for the subject quarry is **L_{A10, 15minutes} 55 dB** (external).

NOISE COMPLIANCE TESTING AND INSPECTION

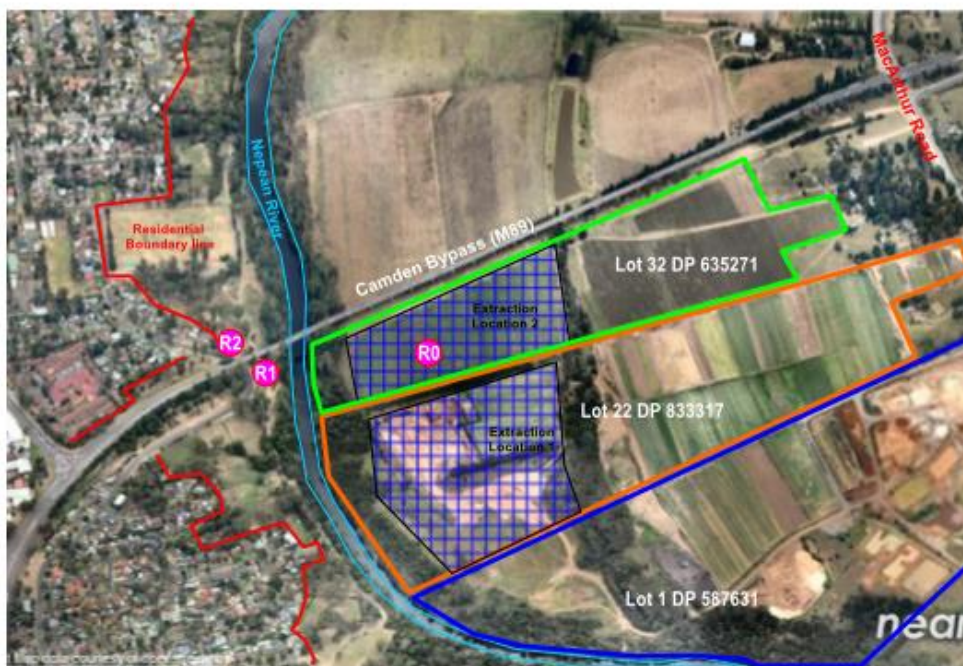
Noise compliance testing and inspections were undertaken at following locations

Location R0: Reference location within the quarry site. An excavator was operating constantly at approximately 80 meters from monitoring location. A moving dump truck was located at varying distance of approximately 20 to 80 metres from this monitoring location.

Location R1: The distance between R1 and noise sources is approximately 260~300 metres. This is the closest distance between the noise source at any location and any residential receiver.

Location R2: The distance between R2 and noise sources is approximately 360~400 metres. This is the closest distance between the noise source at current operating location (Lot 22) and residential receiver.

All noise measurements were undertaken simultaneously on Monday 28th August 2017. Refer to the figure below for noise monitoring locations and inspection sites.



The noise measurement results and findings during site inspections are summarised below.

Noise Level Summary – L _{A10,15} minutes [dB]										
FREQUENCY [Hz]	31.5	63	125	250	500	1000	2000	4000	8000	Total
Monitoring Location R0	34	47	46	48	51	55	50	41	28	59
Monitoring Location R1	Inaudible and not measurable									
Monitoring Location R2	Inaudible and not measurable									

Compliance was achieved at the residential receiver location R2 and at the nearest possible distance between noise sources at any location (within the extraction area 1 or 2) and any residential receiver location (tested by undertaking a noise measurement at R1, i.e. distance of approximately 260 to 300 metres to noise sources. All noise sources will not be located at less than 260 metres to any residential receiver.)

It is most unlikely that there will be any closer residential receiver locations during the foreshadowed extended two year time frame.

STATEMENT OF COMPLIANCE & FORESHADOWED COMPLIANCE

In conclusion, the resultant noise levels to surrounding residential receivers (R1 and R2, the minimal distance between noise sources at any location and any residential receiver location) were found to be inaudible and comply with nominated noise criterion. As the extended quarry operation period (two years) will not change its' operating mode, the use of plant/equipment, extraction methodology and the distance between any noise source and residential receiver location will not be less than 260 metres, Koikas Acoustics therefore certifies that the subject quarry operation is currently complying and will also comply with the nominated noise criterion for the future extended two year period.

Yours Sincerely,

Koikas Acoustics Pty Ltd



Nick Koikas

Principal Consultant