APPENDIX X: SEPP 33 SCREENING ASSESSMENT

SEPP 33 Screening Assessment

Deep Creek Quarry – Environmental Impact Statement

20203112

25 May 2021

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20203112

Ironstone Development Pty Ltd
PO Box 2185
Greenhills
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Attention: Tim Mullaney

Subject: SEPP 33 Screening Assessment
Proposed Deep Creek Quarry, The Bucketts Way Limeburners Creek NSW 2324

1 INTRODUCTION

This letter provides a screening assessment of the proposed Deep Creek Quarry (DCQ) against the NSW *State Environmental Planning Policy No 33—Hazardous and Offensive Development* (SEPP 33). Part 1, Clause 3 of SEPP 33 defines 'potentially hazardous industry' and 'potentially offensive industry' as stipulated in **Table 1** below.

Table 1: SEPP 33 definitions of 'potentially hazardous industry' and 'potentially offensive industry'.

Term	Definition
Potentially hazardous industry	Means a development for the purposes of any industry which, if the development were to operate without employing any measures (including, for example, isolation from existing or likely future development on other land) to reduce or minimise its impact in the locality or on the existing or likely future development on other land, would pose a significant risk in relation to the locality— a) to human health, life or property, or b) to the biophysical environment, and includes a hazardous industry and a hazardous storage establishment.
Potentially offensive industry	Means a development for the purposes of an industry which, if the development were to operate without employing any measures (including, for example, isolation from existing or likely future development on other land) to reduce or minimise its impact in the locality or on the existing or likely future development on other land, would emit a polluting discharge (including for example, noise) in a manner which would have a significant adverse impact in the locality or on the existing or likely future development on other land, and includes an offensive industry and an offensive storage establishment.

Actions undertaken at the DCQ of relevance to the SEPP 33 screening assessment include:

- Blasting – estimated to occur 16 times a year. Explosives will not be stored onsite.
- Storage of diesel fuel, while unconfirmed, to a quantum of 5,000 L.
- Storage of lubricating oils and greases.

2 PROPOSED WORKS

2.1 Blasting

As currently proposed, each blast event at the DCQ will include a 9000 kg blast producing approximately 11,600 m^3 / 30,600 tonnes of product. This quantity estimate would equate to approximately 16 blasts per year to produce a total 500,000 tonnes (as per the SSD application).

Licenced contractors will be utilised for blasting events, bringing explosives used for blasting to site for each event. As such, explosives will not be stored at the DCQ.

Blasting at the DCQ will be restricted to between the hours of 9am to 4pm Monday to Friday. Blasting will not occur on Saturdays, Sundays or on Public Holidays.

2.2 Hazardous Materials at the DCQ

2.2.1 Diesel

While currently unconfirmed if required, the DCQ may include the provisions of a 5,000 L fuel tank for diesel onsite just as a back-up for onsite machinery. This tanker will self- bunded and stored on an impermeable surface within a bunded refueling pad. Diesel fuel will be delivered to site machinery by a private contract daily.

Diesel will be transported, stored, handled and managed in accordance with regulations and industry standards. Fuel tankers, where utilised, will be parked in a temporary bunded area on an impermeable surface while re-fuelling, and spills in the collection area will be contained and managed in accordance with emergency response procedures. Any incidental contamination will be classified and disposed of in accordance with waste legislation.

2.2.1 Oils and Greases

Small quantities of hydrocarbons, typically oils and greases for maintaining plant and equipment will be stored onsite at the DCQ. These will be stored in a bunded tank, installed in accordance with relevant Australian Standards. Recovered oil and grease material will then be collected for removal by a licensed recycling contractor.

Oils and greases will not be stored within the same bund as other flammable liquids, and as such would not be subject to the SEPP 33 screening thresholds. As a result, the storage of these materials is not considered potentially hazardous in terms of SEPP 33.

3 SEPP 33 ASSESSMENT

3.1 Blasting

As stated under Section 5.5 of the DCQ Noise and Vibration Impact Assessment (NVIA), blast vibration and overpressure levels will be significantly below the 5% exceedance criteria published under the Australian and New Zealand Environment and Conservation Council (ANZECC) document *Technical Basis for Guidelines to Minimise Annoyance due to Blasting Overpressure and Ground Vibration – September 1990*[1] at assessed residential receivers. It is noted that maximum of 5% of blasts per year can exceed these criteria and still achieve compliance (Spectrum Acoustics, 2021[2]).

It is highlighted that whilst explosive materials will be periodically used at the DCQ for blasting, there will be no storage of explosive materials at the site outside of these times. Explosive material would be brought to the site on an as-needs basis by the specialist contractor, and would be handled and used in accordance with relevant Australian Standards.

3.1 Hazardous Materials

The guideline *Hazardous and Offensive Development Application Guidelines – Applying SEPP 33* (SEPP 33 Guideline) (NSW Department of Planning, 2011[3]) defines hazardous materials as "*…substances falling within the classification of the Australian Code for Transportation of Dangerous Goods by Road and Rail*[4]." Hazardous materials are further defined under Chapter 7.1 of SEPP 33 Guideline as substances falling within the classification of the Australian Code for Transportation of Dangerous Goods by Road and Rail (Dangerous Goods Code). Materials stored onsite of relevance to the SEPP 33 Screening Assessment are summarised in **Table 2**.

[1] Australian and New Zealand Environment and Conservation Council (1990). *Technical Basis for Guidelines to Minimise Annoyance due to Blasting Overpressure and Ground Vibration – September 1990.* Environmental Noise Control Committee
[2] Spectrum Acoustics (2021). *Noise and Vibration Impact Assessment, Deep Creek Quarry, Limeburners Creek, NSW*. Spectrum Acoustics Pty Ltd, Cardiff NSW
[3] NSW Department of Planning (2011). *Hazardous and Offensive Development Application Guidelines – Applying SEPP 33*, NSW Government, ISBN 978-1-74263-154-7
[4] National Transport Commission (2020). *Australian Code for Transportation of Dangerous Goods by Road and Rail*, Commonwealth of Australia, ISBN: 978-1-921604-69-0

Table 2: Hazardous material storage at the DCQ

Material	Australian Dangerous Goods Class	Description	Storage Quantity	Storage Location	SEPP 33 Trigger
Diesel (fuel)	Class 3, C1	Combustible liquids. Flashpoint above 61 ˚C but not exceeding 93 ˚C	5000 L (if required)	Above ground, self-contained tank	Diesel would not be stored with other Class 3 materials and would therefore not be subject to the SEPP 33 Guideline.
Lubricating and hydraulic oils and grease	Class 3, C2	Combustible liquids. Flashpoint above 93 ˚C	Amount under SEPP 33 threshold	Workshop area	Lubricating and hydraulic oils and grease would not be stored with other Class 3 materials and would therefore not be subject to the SEPP 33 Guideline.

As stipulated above in **Table 2**, both diesel and lubricating oils and grease will be stored away from other flammable material, assuming that diesel storage onsite at the DCQ will occur at all. As such, the storage of diesel and lubricating oils and grease is not subject to further assessment under the SEPP 33 Guideline.

Transport of diesel fuel to the DCQ is currently proposed to occur on a daily basis, pending the procurement of the storage tank onsite. Diesel will be transported, stored, handled and managed in accordance with regulations and industry standards. The minimum quantity for the transport of Class 3 materials under the SEPP 33 Guideline equates to the following:

- More than 500 loads per year.
- More than 30 loads per week.
- More than one tonne per delivery.

This threshold is highly unlikely to be exceeded during the construction and operation of the DCQ. As such no further assessment is required.

4 CONCLUSION

This screening assessment has determined that operations at the DCQ are not considered hazardous or potentially hazardous and therefore a preliminary hazard analysis (PHA), prepared in accordance with the SEPP 33 Guideline, is not required for the DCQ. For limitations applying to this letter please see **Attachment 1**.

Sincerely,

Kleinfelder Australia Pty Ltd

Brad Deane

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ATTACHMENT 1: STATEMENT OF LIMITATIONS

STATEMENT OF LIMITATIONS

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