

25 May 2018

Howard Reed Director Resource Assessments Department of Planning & Environment GPO Box 39 Sydney NSW 2001

Via email: compliance@planning.nsw.gov.au

RE: SSD 7036 Coraki Quarry - Response to Independent environmental audit.

Quarry Solutions Pty Ltd (Quarry Solutions), is the operator of the Coraki Quarry (SSD 7036). Schedule 5, Condition 10 of SSD 7036 requires the completion of an Independent Environmental Audit to be undertaken at certain times. Quarry Solutions engaged NGH Environmental to undertake the audit (refer **Attachment 1 – Independent Environmental Audit**).

Schedule 5 Condition 11 of SSD 7036 requires a copy of the audit be submitted to the Department together with a response to any recommendations contained in the audit, including a timetable for the implementation of any measures proposed to address the recommendations in the audit. Section 3.3 of the audit includes a summary of recommendations and actions which is replicated below with an additional column setting out our response.

Condition/EPL reference	Audit recommendation	Quarry Solutions response
COA2.2 (NC 2018 /001)	Groundwork Plus are currently preparing a modification report for the change in location of the processing area.	The request for modification will be submitted for assessment.
COA 3.4 (NC 2018/002)	Continue noise monitoring to test compliance with the COA	Routine noise monitoring will continue.
COA 3.9 and 5.8 (ANC 2018/003)	All monitoring data should be made available on the company website. It is noted that the last data is now available.	The data is now available.
COA 2.9	Monthly checklist makes reference to '21' trucks per hour. It is recommended that this be updated to be '31' as per Limits in Schedule 2 COA 9.	The checklist has been updated (refer Attachment 2 – Checklist)
COA 3.37 (ANC 2018/004)	Prepare and maintain a waste register. Ensure waste is reported in all annual reviews.	A waste register has been prepared and will be maintained (refer Attachment 3 – Waste register). Waste was reported in the last annual review. Waste will be reported in future annual reviews.



Condition/EPL reference	Audit recommendation	Quarry Solutions response
COA 3.38 (NC 2018/005)	Ensure all hazardous liquids fuels and volatiles area stored in a bunded container.	All hazardous liquids, fuels and volatiles are stored in a bunded container. This will be maintained.
COA 3.39 (ANC 2018/006)	Obtain and update to GHS compliant SDS' on site.	GHS complaint SDS are now held on site.
EPL O4	Future testing of the Pollution Incident Response Management Plan (PIRMP) should be documented.	The checklist has been updated to address this (refer Attachment 2 – Checklist).
EPL 05.9	Where basins are reinstated to maintain capacity within 5 days of rainfall, this should be documented.	The checklist has been updated to address this (refer Attachment 2 – Checklist).

Quarry Solutions are committed to operating the Coraki Quarry in accordance with the requirements and conditions of the approval.

If you have any questions regarding this matter, please do not hesitate to contact me.

Terry Woods

General Manager - Quarry Operations

Quarry Solutions Pty Ltd

Enc.

Attachment 1 – Independent Environmental Audit

Attachment 2 - Checklist

Attachment 3 - Waste register

Independent Environmental Audit 2018

CORAKI QUARRY

MAY 2018



Document Verification



Project Title: Coraki Quarry

Project Nu	ımber:	17-665		
Project Fil	e Name:	17-666 Coraki complaince audit 19042018 LB		
Revision	Date	Prepared by (name)	Reviewed by (name)	Approved by (name)
Draft	20/04/18	Natascha Arens	Lauren Byrne	Natascha Arens
Final1.1	16/05/18	Natascha Arens & Lauren Byrne	Natascha Arens	Natascha Arens

NGH Environmental prints all documents on environmentally sustainable paper including paper made from bagasse (a by-product of sugar production) or recycled paper.

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ACRONYMS AND ABBREVIATIONS

AR Annual Review

ANC Administrative Non Compliance

ASS Acid Sulfate Soils

CCC Community Consultative Committee

CoA Conditions of Approval

DPE Department of Planning and Environment

EA Environmental Audit

EMS Environmental Management Strategy
EPA Environmental Protection Authority
EPL Environmental Protection Licence
ESCP Erosion and Sediment Control Plan

LMP Landscape Management Plan

MP Management Plan

NATA National Association of Testing Authorities

NC Non Compliance

NVMP Noise and Vibration Management Plan

NOW NSW Office of Water

NSW New South Wales

OEH Office of Environment and Heritage

PA Project Approval

POEO Act Protection of the Environment Operations Act 1997

RMP Rehabilitation Management Plan
SoC Statements of Commitments

SWMP Soil and Water Management Plan

WMP Waste Management Plan



Completed a	audit details
AUDITED ORGANISATION	PROJECT
Quarry Solutions Pty Ltd	Coraki Quarry
LOCATION OF AUDIT	DATE OF SITE AUDIT AND DOCUMENT REVIEW
Coraki Quarry	Site visit 6 March 2018
Petersons Quarry Road, Coraki NSW	Further consultation and document review was
	undertaken In March - April 2018
DEPTH OF AUDIT	SCOPE OF AUDIT
Environmental	Compliance with:
	 Project Approval (PA) SSD_7035
	• EPL 3397
	Coraki Quarry Environmental
	Management Strategy and all
	monitoring/management plans
AUDIT CRITERIA	
Project Approval SSD_7036 including MOD 1 aEPL 3397	and 2
PROJECT REPRESENTATIVES	AUDIT TEAM
Jim Lawler, Project Director- Groundwork Plus	Natascha Arens, Lead auditor- NGH
Murray Payne, Operations Manager- Quarry Solutions	Environmental
Solutions	Lauren Byrne, Assistant auditor- NGH Environmental
PREVIOUS AUDIT DATE	PREVIOUS AUDIT REFERENCE
Nil	



1 REPORT SUMMARY

1.1 INTRODUCTION

NGH Environmental (NGH) were engaged by Quarry Solutions to complete the triennial Environmental Audit. Quarry Solutions is required to undertake an Independent Environmental Audit of the Coraki Quarry every three years (from October 2016) of compliance with the consent conditions and the Environment Protection Licence (EPL). The requirement for the independent audit and the is detailed in Schedule 5 Condition 10.

Quarry Solutions has been operating at the site since 10th October 2016. This is the first external audit at the site.

NGH undertook the initial site audit and document review on the 6th March 2018. Further document review was undertaken offsite through March and April 2018.

1.2 SCOPE OF THE AUDIT

As required under Schedule 5 Condition 10 of PA SSD_7035 the audit covered the following areas of the Coraki Quarry operations:

- Assessment of compliance with the conditions of approval
- Assessment of the implementation and adequacy of strategies, plans and programs required under the PA and EPL.

Monitoring and environmental performance, along with compliance with reporting requirements, were evaluated against:

- Project Approval PA SSD_7037
- Statement of commitments made in the Environmental Assessment (EA) for the site
- Environmental Protection Licence (EPL) 3397
- Observations made during audit activities on site.

1.3 SUMMARY OF NON-COMPLIANCE

The following non-compliances were identified and are summarised in Table 1.

Table 1: Summary of non-compliance

NC	Section of report	NC	Details
NC 2018/001	3.1.1	Low risk NC	The Processing Area for the quarry is not in the same location as that presented in the EIS (COA 2.2)
NC 2018/002	3.1.2	Low risk NC	Non compliance with noise criteria listed in Table 3 of COA3.4.
ANC 2018/003	3.1.2	ANC	Blast data was not available on the website at the time of the site audit. It is noted that this data is now available on the website. (COA 3.9 and COA 5.8)



NC	Section of report	NC	Details
ANC 2018/004	3.1.2	ANC	Waste was not reported on in the 2016 annual review (COA 3.37)
NC 2018/005	3.1.2	NC	The inspection for the annual review on 28 February 2018 by Groundwork plus noted that liquid storage was not appropriate, therefore there has been a non compliance with COA 3.38. This had been rectified by the time of the site inspection for this independent environmental audit and all liquids were stored in a bunded locked container.
ANC 2018/006	3.1.2	ANC	Not all SDS were GHS compliant and some were older than 5 years (COA3.39)

2 AUDIT PROCESS

2.1 SITE INSPECTION AND ONSITE DOCUMENT REVIEW

A site inspection and onsite document review was undertaken with Jim Lawler, Murray Payne, Natascha Arens and Lauren Byrne, on the 6th of March 2018. The site inspection included the extraction area, stockpile areas, processing plant area and surrounding remnant vegetation areas. Photos are included in Appendix B.

2.2 DOCUMENT INSPECTION

Documents were requested by the auditor and provided by Quarry Solutions and Groundwork Plus. Records were viewed electronically and in hard copy format. Records (photographs, notes, digital files) were made of the documents examined. Notes were made about the documents against and regarding the CoA requirements. An opinion was formed on the adequacy of the evidence in relation to the CoA and compliance. Documents viewed included:

- Project Approval PA SSD_7035
- Environmental Protection Licence (EPL) 3397
- Environmental Management Plan updated September 2016
- Environmental Management Strategy (EMS) updated November 2017
- Noise Management Plan updated February 2018
- Blast Management Plan updated November 2017
- Air Quality Management Plan updated November 2017
- Water Management Plan updated February 2018
- Transport Management Plan updated October 2017
- Aboriginal Cultural Heritage Management Plan (ACHMP) updated November 2017
- Coraki Quarry, Coraki NSW Revised Traffic Audit (July 2017)
- Quarry Driver Induction
- Quarry Safety and Environmental checklist
- Survey plan boundary marks (Kennedy Surveying, 2017)



- Dust Monitoring Report for 10 November 16 December 2016
- Chain of Custody and analysis request for deposition dust gauges (December 2016)
- Blast reports (Ron Southon Pty Ltd) for 21 November 2016 and 15 December 2016
- Output from weather station of weather data (November 2016 January 2017)
- Hours of operation agreements with landholders for the following properties:
 - o Lot 1 DP788976
 - o Lot 32 DP755631
 - o Lot 401 DP633427
 - o Lot 11 DP6339
 - o Lot 1 DP702544
 - o Lot 197 DP75631
 - o Lot 3 DP1137313
 - o Lot 12 DP714770
 - o Lot 12 DP6339
- Annual Reviews for 2016 and 2017
- 2017 EPL Annual Return
- Monthly Section 94 contributions (October 2016 February 2018)
- SDS register
- Walkthrough of 'The Fleet Office' software monitoring truck locations and speeds
- Ballina Pumping Mega Waste tax invoice for 6 March 2018
- Daily Plant Inspection checklists for 6 December 2017
- Email dated 9 September 2016 from EPA providing comment on Noise Monitoring Management Plan
- eConnect EPA email receipt showing submission of Annual Return on 13 June 2017
- Email from Jim Lawler to DOP confirming the date of commencement for Coraki Quarry
- Email correspondence between Quarry Solutions and Groundwork Plus regarding PIRMP testing on site
- Correspondence with DOP regarding noise exceedance
- Shot blast reports
- Noise monitoring results
- Air quality monitoring results
- Emails regarding consultation and other requirements from government agencies

2.3 CONSULTATION

Consultation was undertaken with a number of agencies and stakeholders on 26 February 2018 as detailed in the table below.

Agency:	Response	Relevant Section of audit report
Richmond Valley Council	Response was received from Richmond Valley Council on 5 March 2018 and it was noted that they agreed with audit scope.	N/A
EPA	Response was received from EPA on 27 February 2018 requesting that a review of basin management records in comparison to	N/A No basin records available as there have been no discharges of water from basins. Recommendations have been



Agency:	Response	Relevant Section of audit report
	rainfall records is undertaken as part of the audit scope.	made in Section 3.3 regarding basins.
DOI Water	Response was received 26 March 2018 and requested that the audit considers compliance with the relevant water licensing requirements within EPL.	N/A – No water licencing requirements have been triggered
OEH	No response was received.	N/A
DOP	No response was received.	N/A

3 DETAILS OF AUDIT FINDINGS

This section details the findings of the audit report. It provides a brief summary of compliance and further detail where a non-compliance was found. For complete details of the findings of the Audit, refer to the Audit checklist contained in Appendix A.

3.1 PROJECT APPROVAL

3.1.1 Schedule 2- Administrative conditions

The proponent has largely carried out activities in accordance with the EIS, SEE (MOD 1), SEE (MOD 2), Statement of Conditions and conditions of this consent.

It was observed that the processing area for Coraki Quarry is not in the location as shown in the approved EIS. The processing area is located centrally within the site outside of the designated area on the approved plans and EIS. The processing area is currently in the flat area at the face of the quarry cut, it is contained and is in a very similar receiving environment to that proposed in the original EIS. Refer to Plate 1 and 2 in appendix B.

Quarry Solutions have commissioned Groundwork Plus to prepare a modification application.

This has been raised as a non compliance (COA 2.2) NC 2018/001

The audit found compliance with the other administrative conditions including:

- Implementation of approved EMS and management plans
- No extraction of material below 18AHD
- Extraction of less than 1 million tonnes Per annum
- Compliance with number of truck movements per day
- No new buildings have been constructed, demountable buildings comply with requirements
- Plant and equipment are maintained
- Section 94 contributions to council are occurring
- Quarry operators are aware of their responsibilities under the consent.



3.1.2 Schedule 3 – Environmental performance conditions

The Coraki Quarry is generally complying with the requirements of the environmental performance conditions. A summary of audit findings, including NCs is provided below.

Noise Management

- Operational noise monitoring occurs quarterly. Reports were reviewed at the time of the audit and are publicly available on the website.
- There was one exceedance during 2017 quarterly monitoring and accordingly this has been raised as a non compliance. **NC 2018/002.**
- The September 2017 noise monitoring recorded an exceedance with the noise criteria listed in in Table 3 of COA3.4.

Although this has been raised a non compliance with the noise criteria, Quarry Solutions implemented all requirements in accordance with the Non conformance process and no further action is required. Quarry solutions undertook the following actions to address the non compliance:

- Found the source of the noise non compliance (Crushing an screening plant noise) –
 mobile powerscreen
- Isolated and shut down noisy equipment
- o Undertook further monitoring
- o Reported the non compliance to the EPA and DPE

Dust Management

Dust deposition monitoring is conducted by Groundwork Plus and analysis completed by ALS Environmental. Dust monitoring report provided for period of 10 November to 16 December 2016. Dust deposition concentrations recorded at 4 monitoring locations were below 4.0g/m2/month.

Meteorological conditions are monitored and collected on site.

Dust monitoring report by Groundwork Plus conducted monthly. Air Quality MP is not available online and monitoring data was not available on the Quarry Solutions website during the audit. However, since the audit e-monitoring data for Coraki Quarry is linked under the Petersons Quarry webpage as Coraki is reported as part of the Petersons EPL.

Soil, Water and Groundwater

The extraction limit of AHD 18 was designed specifically so that groundwater would not be intercepted. There has been no extraction below AHD 18.

The site visit found that basins had markers to show depth. Water from basins is used in dust suppression. No monitoring has occurred to date as there have been no discharges from basins.

Traffic, transport and weighbridge

The site has implemented rigorous traffic management system through the IBMS (Integrated Vehicle Management System). All drivers are Site Inducted and agree to the Drivers Code of Conduct which is outlined in Section 4 of the Transport Management Plan.



All trucks have a GPS and IBMS installed which tracks the location of the drivers and alerts when they are speeding or have driven off the allocated transportation route.

Weighbridge data is recorded using 'i-Weigh' software. Reports show the count of trucks per hour for each day as well as the weight of each truck. The audit found that truck movements are within the conditioned number of 31 per hour and that production data is tracking below the annual requirement for extraction.

Aboriginal heritage

The Aboriginal and Cultural Heritage Management plan has been approved and is being implemented. There have been no unexpected finds.

Biodiversity and Landscape Management

The Biodiversity and rehabilitation management plan dated 16 September 2016 has been approved by DPE as evidenced by email dated 6/3/18.

Aside from the protection of remnant vegetation on the site the requirements of the plan are not yet triggered as rehabilitation has not yet commenced. Fencing and protection of remnant vegetation on site was viewed during the site audit.

Blast Data

The audit reviewed blast data and found that blasting is occurring in accordance with the requirements of the Blast Management Plan and the relevant conditions of approval. One Administrative non conformance (ANC 2018/003) was raised as at the time of the site audit blast data was not available on the website. Since the site audit this has been rectified and blast data can be viewed at:

http://www.emonitoring.com.au/peterson-quarry.php

Waste hazardous materials management and production data

Very limited waste is produced onsite. Small amounts of office (paper) waste is generated.

No waste is generated from extraction.

General waste and recycling serviced by Council. Waste oil is collected by Summerland Environmental.

Waste was not reported on in the 2016 annual review. *This has been raised as ANC 2018/004.* It is however noted that waste was reported in 2017 annual review.6

A number of SDS' checked during the site audit and found that of the several sheets checked some were not GHS compliant and older than 5 years. *This has been raised as ANC 2018/005*.

The inspection for the annual review on 28 February 2018 by Groundwork plus noted that liquid storage was not appropriate, therefore there has been a non compliance with COA 3.38. This had been rectified by the time of the site inspection for this independent environmental audit and all liquids were stored in a bunded locked container. *This has been raised as NC 2018/006.*

3.1.3 Schedule 4 - Additional conditions

Independent review requirements and notification of landholder requirements have not been triggered as a result of the operation of the project.



3.1.4 Schedule 5 - Environmental Management and monitoring

An Environmental Management Strategy has been prepared and was approved by Secretary on 24 January 2018. Plans were submitted to Department on 22 November 2017.

The following management plans (MPs) and associated sub-plans have been provided and audited:

- Environmental Management Plan updated September 2016
- Environmental Management Strategy (EMS) updated November 2017
- Noise Management Plan updated February 2018
- Blast Management Plan updated November 2017
- Air Quality Management Plan updated November 2017
- Water Management Plan updated February 2018
- Transport Management Plan updated October 2017
- Aboriginal Cultural Heritage Management Plan (ACHMP) updated November 2017.

The audit found that all monitoring requirements of the plans are occurring.

3.2 ENVIRONMENTAL PROTECTION LICENCE

The requirements of the EPL were being complied with. A brief summary of findings is provided with further detail in Appendix A.

3.2.1 Administrative Conditions

The audit found that all administrative conditions were complied with.

3.2.2 Discharges to Air and Water and Applications to Land

No discharges form basins have occurred, water from basins is used in dust suppression.

3.2.3 Limit conditions

There has only been one exceedance of limit conditions in relation to noise during the September 2017 monitoring period. The exceedance was reported to the EPA and appropriately managed in accordance with the NVMP.

3.2.4 Operating Conditions

Two system improvements have been recommended in relation to operating conditions.

The testing of the PIRMP was verified via an email from the GM of Quarry solutions, however there was no other auditable evidence that this has occurred.

There was no auditable evidence that basins are reinstated to maintain design storage capacity within 5 days of a rain event.

3.3 SUMMARY OF RECOMMENDATIONS

A number of recommendations and actions for non compliance that could potentially improve the performance at the site have been made as listed in the table below.



Table 2: Summary of recommendations and actions for non compliance

Condition/EPL reference	Recommendation /current action
COA2.2 (NC 2018 /001)	Groundwork Plus are currently preparing a modification report for the change in location of the processing area.
COA 3.4 (NC 2018/002)	Continue noise monitoring to test compliance with the COA
COA 3.9 and 5.8 (ANC 2018/003)	All monitoring data should be made available on the Quarry solutions website. It s is noted that the last data is now available.
COA 2.9	Monthly checklist makes reference to '21' trucks per hour. It is recommended that this be updated to be '31' as per Limits in Schedule 2 COA 9.
COA 3.37 (ANC 2018/004)	Prepare and maintain a waste register. Ensure waste is reported in all annual reviews.
COA 3.38 (NC 2018/005)	Ensure all hazardous liquids fuels and volatiles area stored in a bunded container.
COA 3.39 (ANC 2018/006)	Obtain and update to GHS compliant SDS' on site.
EPL O4	Future testing of the Pollution Incident Response Management Plan (PIRMP) should be documented.
EPL 05.9	Where basins are reinstated to maintain capacity within 5 days of rainfall, this should be documented.



APPENDIX A PROJECT APPROVAL AND EPL COMPLIANCE STATUS – APRIL 2018

The compliance status for each requirement or commitment has been assessed in accordance with the criteria in Table 1 (DPE 2015).

Table 1 - Compliance assessment criteria

Assessment	Criteria
Compliant (C)	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit.
Not verified (NV)	Where the auditor has not been able to collect sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit. In the absence of sufficient verification the auditor may in some instances be able to verify by other means (visual inspection, personal communication, etc.) that a requirement has been met. In such a situation, the requirement should still be assessed as not verified. However, the auditor could note in the report that they have no reasons to believe that the operation is non-compliant with that requirement.
Non-compliant (NC)	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent of one or more specific elements of the regulatory approval have not been complied with within the scope of the audit.
Administrative non-compliance (ANC)	A technical non-compliance with a regulatory approval that would not impact on performance and that is considered minor in nature (e.g. report submitted but not on the due date, failed monitor or late monitoring session). This would not apply to performance-related aspects (e.g. exceedance of a noise limit) or where a requirement had not been met at all (e.g. noise management plan not prepared and submitted for approval).
Not triggered (NT)	A regulatory approval requirement has an activation or timing trigger that had not been met at the time of the audit inspection, therefore a determination of compliance could not be made.
Observation (O)	Observations are recorded where the audit identified issues of concern which do not strictly relate to the scope of the audit or assessment of compliance. Further observations are considered to be indicators of potential non-compliances or areas where performance may be improved.
Note	A statement or fact, where no assessment of compliance is required.

Risk levels for any non-compliances have been ranked in accordance with the descriptions in Table 2:

Table 2 - Risk levels for non-compliances

Risk level	Colour code	Description
High		Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence
Medium		Non-compliance with:
		 potential for serious environmental consequences, but is unlikely to occur; or potential for moderate environmental consequences, but is likely to occur
Low		Non-compliance with:
		 potential for moderate environmental consequences, but is unlikely to occur; or potential for low environmental consequences, but is likely to occur
Administrative non-compliance		Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions)

	Quarry Solutions Pty Ltd 2018				
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking	
SCHEDU	LE 2- ADMINISTRATIVE CONDTIONS				
1	Obligation to Minimise Harm to the Environment; In addition to meeting the specific performance criteria established under this consent, the Applicant must implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the development.	The proponent has completed all practical measures to minimise harm to the environment.	С		
2	Terms of Consent; The Applicant must carry out the development: a) Generally in accordance with the EIS, SEE (MOD 1) and SEE (MOD 2); and b) In accordance with the Statement of Commitments and conditions of this consent. Note: The Applicant's Statement of Commitments is reproduced in Appendix 1 of Ministers consent.	The proponent has generally carried out activities in accordance with the EIS, SEE (MOD 1), SEE (MOD 2), Statement of Conditions and conditions of this consent. It was observed that the processing area for Coraki Quarry is not in the location as shown in the approved EIS. The processing area is located centrally within the site outside of the designated area on the approved plans and EIS. The processing area is currently in the flat area at the face of the quarry cut, it is contained and is in a very similar receiving environment to that proposed in the original EIS. Refer to Pate 1 and 2 in appendix B. Quarry Solutions have commissioned Groundwork Plus to prepare a modification application.	NC	Quarry Solutions have commissioned Groundwork Plus to prepare a modification application. No further recommendations required.	
3	Terms of Consent; If there is any inconsistency between the above documents, the most recent document must prevail to the extent of the inconsistency. However, the conditions of this consent must prevail to the extent of any inconsistency.	No inconsistencies found.	С		

Quarry Solutions Pty Ltd 2018

Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking
4	Terms of Consent; The Applicant must comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of: a) Any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent; b) Any reviews, reports or audits undertaken or commissioned by the Department regarding compliance with this consent; or c) The implementation of any actions or measures contained in these documents.	The proponent has generally complied with the site management plans. The following pans have been implemented: • EMS (approved 24 January 2018) • Air Quality Management Plan (approved 24 January 2018) • Transport Management Plan (approved 24 January 2018) • Blast Management Plan (approved 24 January 2018) • Aboriginal Cultural Heritage Management Plan (approved 24 January 2018) • Biodiversity and Rehabilitation Management Plan (approved 6 March 2018) • Noise Management Plan (approved 6 March 2018) • Water Management Plan (approved 6 March 2018)	C	
5	Lapsing of Consent; If the development has not been physically commenced within 5 years of the date of this consent, then this development consent must lapse.	The quarry is operational. Quarrying operations commenced on 10 October 2016.	NT	
6	Limits on Consent; Quarrying Operations The Applicant may carry out quarrying operations for the development until 30 June 2023. Note: Under this consent, the Applicant is required to rehabilitate lands associated with the development and carry out additional undertakings to the satisfaction of the Secretary. Consequently this consent will continue to apply in all other respects other than the right to conduct quarrying operations until the rehabilitation of lands associated with the		NT	

Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN	Recommendations & Risk Ranking
	development and those undertakings have been carried out to a satisfactory standard.		C/NT/O	
7	Limits on Consent; Quarrying Operations The Applicant must not extract materials outside of the Extraction Area, or stockpile materials outside of the Stockpile Area and Temporary Stockpile Area, as shown in Appendix 2; nor extract materials below 18 metres AHD.	Rover (GPS) on site spots the floor benchmark of extraction. Discussions with staff indicates that this is done daily, however no data is from the GPS is downloaded. The IMS – Quarry Safety and Environmental Checklist under Item 12.0 (Site Management) includes a monthly check of extraction remaining under 18m AHD. This is checked with the rover GPS (January 2018 checklist sighted). An aerial flyover is undertaken every 6 months to confirm levels of extraction and stockpile volumes for reconciliation of weighbridge data. Discussion with the Quarry Manager outlined that the current Petersons Quarry is at 17 m AHD. Therefore Coraki staff know that visually Coraki Quarry needs to be higher.	С	
8	Limits on Consent; Quarrying Operations The Applicant must not extract or process more than 1 million tonnes of quarry products in any calendar year.	'Product Sold vs Production Report' printout for current 2018 period (1-1-2018 to 6-3-2018) outlines current extraction at 143,143 tonnes. At current extraction rates this indicates that annual extraction would be under 1 million tonnes. The Annual Review for 10-10-2016 to 31-12-2016 outlines production volume of 151,303.91 tonnes, mostly from overburden removal and set up of site.	С	
9	Limits on Consent; Quarry Products Transport	Truck dispatch and movements monitored with 'i-Weigh' software on site.	С	Monthly checklist makes reference to '21' trucks per hour. It is recommended

	Quarry Solutions Pty Ltd 2018					
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking		
	The Applicant must not dispatch from the development more than 31 laden trucks per hour or more than: a) 231 laden trucks per day (Monday to Friday); and b) 105 laden trucks per day (Saturday), unless operating in accordance with condition 2 of Schedule 3, in which case the Applicant may dispatch up to 273 laden trucks per day (Monday to Saturday). Note: in this condition, 'per hour' means any 60 minutes following the change of hour.	Drivers 'tag' on in the morning and receive a 'ticket' on the weighbridge to be later paid for load. If truck movements are over 30 an hour, or loads exceed weight limits, the software will not issue a ticket to the driver. If loads are outside of agreed hours of construction the software will also not issue a ticket. Software was agreed to with RMS as the Coraki Quarry was set up as a delivery partner to supply material to the Woolgoolga to Ballina Pacific Highway Upgrade. Coraki has agreements with surrounding residents for increased operating hours. Current agreed to operating hours are 6am – 7pm Monday – Saturday. The following residents have signed agreements to the amended operating hours: 1905 Casino-Coraki Road, Coraki 65 Spring Hill Road, Coraki 140 Newmans Road, Coraki 140 Newmans Road, Coraki 150 Spring Hill Road, Coraki 150 Lagoon Road, West Coraki 150 Spring Hill Road, Coraki		that this be updated to be '31' as per Limits in Schedule 2 COA 9.		
10	Structural Adequacy; The Applicant must ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA. Notes:	Weighbridge and all other structures were pre-existing and used for the Petersons Quarry. New buildings for the Coraki Quarry include the two demountables which are used as site offices. Demountables were purchased through 'Retracom' and are designed to Building Code Australia standards. Condition report from purchase (18-2-2016) sighted.	С			

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Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking
	 a) Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works; and b) Part 8 of the EP&A Regulation sets out the requirements for the certification of the development. 			
11	Demolition; The Applicant must ensure that all demolition work is carried out in accordance with Australian Standard AS 2601-2001: The Demolition of Structures, or its latest version.	N/A – no demolition.	NT	
12	Protection of Public Infrastructure; Unless the Applicant and the applicable authority agree otherwise, the Applicant must: a) Repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and b) Relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development. Note: This condition does not apply to any damage to roads caused as a result of general road usage or otherwise addressed by contributions required of condition 17 of this consent.	To date no damage outside of the requirements of the contribution to council in COA 17 have been required to be repaired.	С	
13	Operation of Plant and Equipment; The Applicant must ensure that all the plant and equipment used at the site is: a) Maintained in a proper and efficient condition; and b) Operated in a proper and efficient manner.	'Fleet Office' software implemented on site; daily pre-starts and scheduled maintenance. Maintenance spreadsheet 'fleet office' viewed. Records equipment number, job card, priority, description and status of maintenance (open/closed). Daily pre-start checked for CAT loader (22/2/18) Checked the fleet office to see if defect had been recorded. Fleet office record sighted and equipment had been taken offline.	С	

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Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking		
		Reviewed daily plant inspection lists for a range of plant and equipment in Feb and March 2018 and the inspection lists recorded defect items. Pre-starts scanned and sent to maintenance department who check for enviro/safety risks etc. Then entered into maintenance planner. Maintenance undertaken at night (outside of operating hours) and conducted internally.				
14	Production Data; The Applicant must: a) Provide annual quarry production data to DRG using the standard form for that purpose; and b) Include a copy of this data in the Annual Review (see condition 9 of Schedule 5).	Email to DRG sighted and sent on 26/10/2017. Attachment included completed form signed by Murray Payne dated 25/10/2017 including the return for extractive materials or the 2016/2017 financial year. Annual Review for 10-10-2016 to 31-12-2016 outlines production volume of 151,303.91 tonnes, mostly from overburden removal and set up of site. Available on Coraki Quarry website.	С			
15	Identification of Approved Extraction Limits; By 30 November 2017, or one month prior to commencement of extraction from Lot 1 DP1225621, whichever is earlier, unless otherwise agreed by the Secretary, the Applicant must: a) Engage a registered surveyor to mark out the boundaries of the approved limits of extraction; and b) Submit a survey plan of these boundaries with applicable GPS coordinates to the Secretary.	Email to DOP Compliance outlining the new survey plan (to include Lot 1 DP1225621). a) Kennedy Surveying was engaged to mark out boundaries (sketch included in email) b) GPS coordinates provided to DOP in email dated 2/9/2017.	С			

	Quarry Solutions Pty Ltd 2018					
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking		
16	Identification of Approved Extraction Limits; While quarrying operations are being carried out, the Applicant must ensure that these boundaries are clearly marked at all times in a manner that allows operating staff to clearly identify the approved limits of extraction.	Boundary markers evident on site and on plans.	С			
17	Contributions to Council; The Applicant must pay to Council a contribution of \$1.12 per tonne of quarry products transported from the development for the maintenance of the local road network. The contribution must be paid quarterly and indexed in line with the provisions of the Richmond Valley Council Section 94 Heavy Haulage Plan 2013 or any subsequent relevant contributions plan adopted by Council. Note: If the parties are unable to agree on any aspect of the maintenance contributions, either party may refer the matter to the Secretary for resolution.	The audit reviewed road user chargers records from Oct 2016 – Feb 2018. Rate up until July 2017 was 1.124. This has now been adjusted to 1.146. Total amount paid to Richmond Valley Council is \$864,828.37.	С			
18	Crown Roads; The Applicant must obtain approval for the closure of the Crown road on the eastern boundary of Lot 401 DP 633427 prior to undertaking the development within the area of the road.	Closure of roads was approved as evidenced in Department of Primary Industry – Lands letter dated 27/7/2016 and Certificate of Title dated 16/2/2017 (Torrens title reference 1/1225621).	С			
19	Compliance; The Applicant must ensure that all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this consent relevant to their respective activities.	Driver Induction and Quarry Site Induction forms were provided and reviewed during the site audit. The inductions outline conditions of this consent. All completed induction forms are filed and kept on site.	С			
SCHEDU	LE 3- ENVIRONMENTAL PERFORMANCE CON	IDITIONS		I		

	Quarry Solutions Pty Ltd 2018					
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking		
1	NOISE; Hours of Operation The Applicant must comply with the operating hours set out in Table 1. Table 1: Operating Hours Activity Permissible Hours Quarrying operations including truck loading and dispatch At no time on Sundays or public holidays. Blasting 9 am to 3 pm Monday to Friday; and At no time on Saturdays, sundays or public holidays. Maintenance activities May be conducted at any time, provided that these activities are not audible at any privately-owned residence.	Current agreement with landholders for Quarry operating hours is 6am – 7pm Monday to Saturday. Land owner consents were sighted from: 1905 Casino – Coraki Road, Coraki (28/1/16) 65 Spring Hill Road Coraki (28/1/16) 140 Newmans Road (LOT 401), Coraki (28/1/16) 325 Lagoon Road, West Coraki (28/1/16) 75 Spring Hill Road, Coraki (30/11/15) 50 Springhill Road, Coraki (30/1/15) 285 Lagoon Road, West Coraki (28/1/16) 95 Spring Hill Road, Coraki (29/1/16) 200 Lagoon Road, West Coraki (10/?/16)	С			
2	NOISE; Hours of Operation The Applicant may operate under the extended operating hours set out in Table 2 only after obtaining written agreements with landowners R1 to R9 (as shown on the plan in Appendix 3), and after advising the EPA and the Secretary in writing of the terms of these agreements. Table 2: Extended Operating Hours Activity Permissible Hours Quarrying operations Including truck loading and dispatch At no time on Sundays or public holidays. Maintenance activities May be conducted at any time.	As above; written current agreement with landholders was provided during audit. EPA and DPE email dated the 16 September 2016 was sighted showing evidence of notification of the extended hours.	С			
3	NOISE; Hours of Operation	None of this type of work has been undertaken to date.	NT			

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Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking	
	The following activities may be carried out on the site at any time: • Delivery or dispatch of materials as requested by Police or other authorities; and • Emergency work to avoid the loss of lives, property and/or to prevent environmental harm. In such circumstances, the Applicant must notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter.				
4	Noise Impact Assessment Criteria The Applicant must ensure that the noise generated by the development does not exceed the criteria in Table 3 at any residence on privately-owned land. Table 3: Noise criteria dB(A) Receiver Day dB(A) (Laeq(15 min)) dB(A) (Laeq(15 mi	Noise compliance monitoring is undertaken quarterly by MWA Environmental at 9 residential locations. Reports provided and viewed for September and December 2017. September monitoring 2017: Exceedances at R2 and R3 were measured at monitoring conducted prior to 9am. Report outlines that noise influence was "crushing and screening plant noise". It was noted that screening noise was significantly louder than had been measured and observed at this residence previously. The report outlined that inspections of site at 8:15am with the Quarry Manager found that a mobile 'Powerscreen' plant was the dominant noise source. The 'Powerscreen' plant was then shutdown and further noise monitoring was conducted at 8:25am. The noise level at R2 was lower however remained non-compliant. Noise monitoring conducted at R3 was not valid as wind speeds were greater than 3 m/s. Further noise monitoring was undertaken between 10:15 am and 10:40am at residences R2 and R3 and were complaint with noise limits. 'Complaint and Incident Procedure' form provided to EPA and DPE dated 5/12/17 (signed by Murray Payne) describing noise exceedance (as per the requirements of Schedule 5 COA 7). Actions taken involved turning off 'Powerscreen' mobile plant	NC	Although this has been raised a non compliance with the noise criteria, Quarry Solutions implemented all requirements in accordance with the Non conformance process and no further action is required. Quarry solutions undertook the following actions to address the non compliance: • Found the source of the noise non compliance (Crushing an screening plant noise) – mobile powerscreen • Isolated and shut down noisy equipment • Undertook further monitoring • Reported the non compliance to the EPA and DPE	

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Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking	
		and incident was toolboxed with relevant employees. The area has been delineated for future works if required. Planning and EPA were notified of the non compliance in accordance with COAs. Next monitoring being conducted 31 March 2018.			
5	NOISE; Operating Conditions The Applicant must: a) Implement best practice management to minimise the operational and road transportation noise of the development; b) Minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 4); c) After the commencement of quarrying operations at the development, carry out noise monitoring (at least every 3 months, or as otherwise agreed with the Secretary) to determine whether the development is complying with the relevant conditions of this consent; and d) Regularly assess noise monitoring data and modify and/or stop operations associated with the development to ensure compliance with the relevant conditions of this consent, to the	A & b) The Noise Management Plan is implemented across site and demonstrates best practice and details what should and shouldn't occur during certain meteorological conditions. Noise Management Plan was submitted to Secretary on 22 November 2017. Noise MP was approved 6 March 2018. C) Noise monitoring is conducted quarterly by MWA Environmental. d) Quarry Solutions has engaged an acoustic consultant to conduct and review the noise findings and the effectiveness of the current noise mitigation measures that are implemented on site. Quarterly noise reports are prepared by the consultant. Sighted at the audit were June, Sept and December 2017 reports). A summary of any investigations will be reported in future Annual Reviews.	С		
	satisfaction of the Secretary. Note: Required frequency of noise monitoring may be reduced if approved by the Secretary.				

Quarry Solutions Pty Ltd 2018								
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking				
6	Noise Management Plan The Applicant must prepare a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must: a) Be prepared in consultation with EPA; b) Be submitted to the Secretary within 6 months of the date of this consent, or prior to the commencement of operations, whichever is earlier, unless otherwise agreed by the Secretary; c) Describe the measures that would be implemented to ensure: a) Compliance with the noise criteria in this consent; b) Best practice management is being employed to minimise operational noise from the development; and c) The noise impacts of the development are minimised during meteorological conditions under which the noise criteria in this consent do not apply (see Appendix 4); d) Describe the proposed noise management system, including the establishment of acoustic bunds (as shown on the plan in Appendix 5) and other noise controls; and e) Include a monitoring program to be implemented to measure noise from the development against the noise criteria in Tables 3, and which evaluates and reports on the effectiveness of the noise management system of the development.	 a) Email provided from EPS dated 9 September 2016 providing comment on Noise MP. b) Noise MP submitted to Secretary on 22 November 2017 c) Site specific noise measures are outlined in Noise MP. Noise Management Plan is implemented across site and demonstrates best practice and details what should and shouldn't occur during certain meteorological conditions. d) Earth bunds and acoustic barriers are present on site and compliant with Noise Screening map prepared by MWA Environmental (Noise and Dust Impact Assessment 23/9/2015) e) Noise monitoring is conducted quarterly by MWA Environmental. 	С					

Quarry Solutions Pty Ltd 2018							
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking			
	The Applicant must implement the approved management plan as approved from time to time by the Secretary.						
7	Noise Compliance Review The Applicant must commission a Noise Compliance Review for the development within 3 months of commencement of operations or as otherwise agreed with the Secretary. The review must be undertaken to the satisfaction of the Secretary and: a) Be undertaken by a suitably qualified and experienced acoustic engineer during a period when the quarry is operating; b) Assess whether the development is complying with the noise limits in this consent; c) Include the details of the plant and equipment operating at the time of the review; d) Identify any additional measures to be implemented to ensure compliance; and e) Provide details of any complaints received in relation to noise generated by the development and the action taken in response to those complaints. Within one month of receiving the Noise Compliance Review report, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the report to the Secretary, with a response to any recommendations contained in the report.	 a) Noise Compliance Review (NCR) prepared by MWA Environmental in December 2016 for exceedance in September 2016. Review was conducted onsite on 2 December 2016 in normal quarrying operations (Section 4.1 of NCR) b) NCR concluded that quarry noise was assessed to be compliant with the noise limit specified in Condition 4 of Development Consent and Condition L4 of the EPL at residences R1, R2, R3, R6, and R7 considering the 5 db(A) exceedance allowed for in agreements with relevant landholders c) Section 4.1 of NCA outlines details of plant and equipment operating on 2 December 2016 d) Additional measures outlined include moving the crushing and screen plant to a more suitable location within the existing Petersons Quarry pit in the near future e) Quarry Solutions Pty Ltd has advised that no noise complaints have been received in relation to the Coraki Quarry 	С				
8	BLASTING; Blasting Criteria	Blast reports for 21 November and 15 December 2016 provided. Prepared by Ron Southon Pty Ltd and include blast monitor (Instantel) trigger report.	С				

Quarry Solutions Pty Ltd 2018							
Condition	on Ministers Condition of Consent				Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking
	The Applicant must ensure that blasting associated with the development does not cause any exceedance of the criteria in Table 4. Table 4: Blasting criteria Airblast overpressure (dB(Lin Peak)) Any residence on privately-owned land 115 However, these criteria do not apply if the Applicant has a written agreement with the relevant owner to exceed the limits in Table 4, and the Applicant has advised the Department in			Allowable exceedance 0% 5% of the total number of blasts over a period of 12 months Applicant has a exceed the limits	November blast recorded db(Linear) at 109.3dB and ground vibration of 0.999 mm/s which is compliant with consent. December blast recorded db(Linear) at < 88db and ground vibration of 2.189 mm/s which is compliant with consent.		
9	Writing of the terms of this agreement. BLASTING; Blasting Frequency The Applicant may carry out a maximum of 2 blasts per calendar month, unless with the prior approval of the Secretary or unless an additional blast is required following a blast misfire. This condition does not apply to blasts required to ensure the safety of workers on site or other persons. Note: For the purposes of this condition a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the quarry.			of the Secretary g a blast misfire. ed to ensure the rs to a single blast	The audit verified that no more than 2 blasts are undertaken per month. A link to 'Emonitoring' data for Peterson Quarry shows blast data. It was noted during the audit that the blast data is not available or linked on the Quarry Solutions website. However, since the audit e-monitoring data for Coraki Quarry is linked under the Petersons Quarry webpage as Coraki is reported as part of the Petersons EPL. In the period from 10 May 2017 to 17 November 2017 only 8 blasts were undertaken.	ANC	Blast data was not available at the time of the site audit. It is noted that this has since been completed.

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Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking			
10	During blasting operations, the Applicant must implement best practice management to: I. Protect the safety of people and livestock in the areas surrounding blasting operations; II. Protect public or private infrastructure/property in the surrounding area from damage from blasting operations; a) Minimise the dust and fume emissions of blasting; b) Operate a suitable system to enable the local community to get up-to-date information on the proposed blasting schedule for the development; c) Obtain agreement with any private land owner affected by blast exclusion zones that are required to manage flyrock; and d) Carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent, to the satisfaction of the Secretary.	 Blast Management Plan, supplemented by site induction details best practice. a) Dust and fume emissions are minimised by spraying as detailed in Section 9 of the Blast Management Plan. Blasting is not permitted in weather conditions that would increase dust and fume emissions. b) 'Petersons Quarry' sign at the entrance to quarry which outlines contact details. c) Landowners affected by blasts are landowners associated with Quarry (e.g. Council). Regardless the wider community surrounding the quarry have signed an agreement that hey dont require notification of each blast. d) Monitoring conducted (including dust deposition and meteorological conditions). 	С				
11	BLASTING; Blast Management Plan The Applicant must prepare a Blast Management Plan for the development to the satisfaction of the Secretary. This plan must: a) Be submitted to the Secretary for approval within 6 months of the date of this consent, or	 a) Blast Management Plan submitted to Secretary on 22 November 2017 and approved 24 January 2018 b) Measures are outlined in Section 9 of the Blast Management Plan. Control and mitigation measures are included for: ground vibration, airblast overpressure (air blast), flyrock, dust and blast fumes. Mitigation measures are implemented on site. Weather conditions are 	С				

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Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking			
	prior to the commencement of blasting, whichever is earlier, unless otherwise agreed by the Secretary; b) Describe the measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this consent; c) Include measures to manage flyrock; d) Include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this consent; e) Include community notification procedures for the blasting schedule; and f) Include a protocol for investigating and responding to complaints. The Applicant must implement the approved management plan as approved from time to time by the Secretary.	monitored and blasts are only conducted in favourable conditions. Also evidence of water suppression being used to manage blast fumes and dust caused my blasting. Maintenance records for water truck viewed while on site. c) Measures to manage flyrock are included in Section 7.4 and 9.3 of Blast Management Plan d) Shot blast reports are prepped for blasting events to test for compliance with the criteria. Random shot blast reports were reviewed at the time of the audit, including for blasts on 21/11/16 and 15/12/16. e) No further community notification required as affected landowners have signed a consent stating that they do not require to be notified of individual blasts (refer to Schedule 5 COA 7) f) Section 10.9 of the management plan deals with complaints. No complaints relating to blasting have been received to date.					
12	AIR QUALITY; Air Quality Impact Assessment Criteria The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 5 at any residence on privately-owned land.	Measures to manage air quality include water trucks, sprays and limiting vehicle and machinery movements to designated routes. Strategies and mitigation measures are outlined in Section 6 of the Air Quality Management Plan (AQMP). Dust deposition is monitored on site (refer to Figure 1 AQMP). Analysis is contracted and completed by Groundwork Plus. Dust monitoring report provided for period of 10 November to 16 December 2016. Dust deposition concentrations recorded at 4 monitoring locations were below 4.0g/m2/month.	С				

Quarry Solutions Pty Ltd 2018						
Condition	Ministers Condition of Consent			Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking
	Table 5: Air quality criteria Particulate matter < 10 μm (PM1e) Particulate matter		a,d 30 µg/m³ b 50 µg/m³ a,d 90 µg/m³ b 2 g/m²/month see in concentrations due eleground concentrations cremental increase in development with zero per criteria over the life of essed as insoluble solids as Australia, AS/NZS on of Particulate Matterine Method. Into such as bushfires, storms, sea fog, fire tivity agreed to by the evoidance and mitigation is not limited to, the conditions 14 and 15 to pair quality management tional responses to the			
13	AIR QUALITY; Quarry-owned Land The Applicant must ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 5 at any			Not triggered as there are no tenants or residences. Discussed further in Section 3 of Air Quality Management Plan. If a residence is established notification will be made at that time.	NT	

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Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking				
	occupied residence on quarry-owned land (including land owned by another quarry owner) unless: a) The tenant has been notified of any health risks associated with such exceedances in accordance with the notification requirements under Schedule 4 of this consent; and b) The tenant of any land owned by the Applicant can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice; to the satisfaction of the Secretary.							
14	AIR QUALITY; Operating Conditions The Applicant must: a) Implement best practice management to minimise the dust emissions of the development; b) Regularly assess meteorological and air quality monitoring data and relocate, modify and/or stop operations associated with the development to ensure compliance with the air quality criteria in this consent; c) Minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see notes under Table 5); d) Monitor and report on compliance with the relevant air quality conditions in this consent; and e) Minimise the area of surface disturbance and undertake progressive rehabilitation of lands associated with the development, to the satisfaction of the Secretary.	 a) Best practice is implemented by the approved Air Quality Management Plan which was approved by the Secretary on 24 January 2017 b) Dust deposition monitoring is conducted by Groundwork Plus and analysis completed by ALS Environmental. Dust monitoring report provided for period of 10 November to 16 December 2016. Dust deposition concentrations recorded at 4 monitoring locations were below 4.0g/m2/month. c) Meteorological conditions are monitored and collected on site. d) Dust monitoring report by Groundwork Plus conducted monthly. e) Activities such as road spraying from a water cart undertaken on site. Maintenance records for water cart provided. Quarry Site Induction outlines environmental requirement around dust impacts on site. 	С					

system.

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	Quarry Solutions Pty Ltd 2018					
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking		
15	AIR QUALITY; Air Quality Management Plan The Applicant must prepare an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must: • Be submitted to the Secretary for approval within 6 months of the date of this consent, or prior to the commencement of operations, whichever is earlier, unless otherwise agreed by the Secretary; • Describe the measures that would be implemented to ensure: a) Compliance with the relevant conditions of this consent; b) Best practice management is being employed; and c) The air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events; • Describe the proposed air quality management system; and • Include an air quality monitoring program that: d) Is capable of evaluating the performance of the development; e) Includes a protocol for determining any exceedances of the relevant conditions of consent; f) Effectively supports the air quality management system; and d) Evaluates and reports on the	Air Quality Management Plan is approved by the Secretary and implemented on site. The monitoring of meteorological conditions and dust deposition is recorded on site.	C			
	g) Evaluates and reports on the adequacy of the air quality management					

	Quarry Solutions Pty Ltd 2018				
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking	
	The Applicant must implement the approved management plan as approved from time to time by the Secretary.				
16	AIR QUALITY; Meteorological Monitoring For the life of the development, the Applicant must ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline.	Meteorological conditions are monitored and recorded on site as per the Air Quality Management Plan. The weather station was sighted during the inspection and data form the weather station viewed at the audit.	С		
17	AIR QUALITY; Greenhouse Gas Emissions The Applicant must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the development.	Greenhouse Gas Emissions are managed on site by mobile plant and equipment being fitted with latest and energy efficient motors which contain emissions control. These are maintained to manufactures standard. Maintenance records were viewed on site during the site audit.	С		
18	SOIL AND WATER; Water Supply The Applicant must ensure that it has sufficient water for all stages of the development and, if necessary, adjust the scale of operations under the consent to match its available water supply, to the satisfaction of the Secretary.	Section 2.2 of the Water Management Plan documents water re-use on site. This includes using water contained in the sediment ponds for water spraying for dust suppression.	С		
19	SOIL AND WATER; Water Discharges The Applicant must comply with the discharge limits in any relevant EPL, or with section 120 of the POEO Act.	There have been no discharges from site to date	С		

Quarry Solutions Pty Ltd 2018				
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking
20	SOIL AND WATER; Groundwater In the event that groundwater in excess of negligible quantities is intersected during extraction activities, the Applicant must undertake a hydrogeological investigation, in consultation with DPI - Water, to the satisfaction of the Secretary. The investigation must report on groundwater sources, levels, yield and quality; identify any risks to groundwater users or groundwater dependent ecosystems and propose recommended management measures. The Applicant must implement reasonable and feasible management measures recommended by the hydrogeological investigation, to the satisfaction of the Secretary.	The extraction limit of AHD 18 was designed specifically so that groundwater would not be intercepted. Therefore there is no risk of intercepting groundwater at AHD 18.	С	
21	SOIL AND WATER; Water Management Plan The Applicant must prepare a Water Management Plan for the development to the satisfaction of the Secretary. This plan must: a) Be prepared by suitably qualified and experienced person/s approved by the Secretary; b) Be prepared in consultation with the EPA and DPI - Water; c) Be submitted to the Secretary for approval within 6 months of the date of this consent, or prior to the commencement of operations, whichever is earlier, unless otherwise agreed by the Secretary; d) Include a: i. Site Water Balance that includes details of:	The Water Management Plan was approved by Secretary on 24 January 2018. Water Management Plan was approved by Secretary on 24 January 2018. This includes the surface water management and balance system. The site visit noted that in accordance with the plan the following was implemented. Clean water diversion drains Dirty water diversion drains Water storages (sedimentation basins) Dedicated and protected Stockpiling areas On-site reuse of surface water runoff (in dust carts) Discussions with staff indicate that there has been no need for basin dosing or offsite release of water. No monitoring required as there are no discharges.	С	

Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking
	ii. The volume of water deficit and/or surplus for dry, average and wet years, considering all planned water management infrastructure; iii. Sources and security of water supply, including on-site water storages; iv. Water use and management on site; v. Any off-site water transfers or discharges including discharge volumes and frequency; vi. Reporting procedures; and vii. Measures that would be implemented to minimise clean water use on site; and e) Surface Water Management Plan, that includes: a) Detailed baseline data on surface water flows and quality in water bodies that could potentially be affected by the development; b) A detailed description of the surface water management system on site including the: i. Clean water diversion system; ii. Erosion and sediment controls; iii. Dirty water management system; and iv. Water storages; c) Provision of a 40 metre buffer zone between watercourses and quarrying operations; and d) A program to monitor and report on: i. Any surface water discharges; ii. The effectiveness of the water management system; and iii. Surface water flows and quality in local watercourses.			

Quarry Solutions Pty Ltd 2018				
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking
	The Applicant must implement the approved management plan as approved from time to time by the Secretary.			
22	Transport Routes All laden trucks travelling from the development to the Pacific Highway must travel via Petersons Quarry Road, Lagoon Road, Casino – Coraki Road, Queen Elizabeth Drive and Coraki - Woodburn Road. Trucks returning to the site from the Pacific Highway must return via the same route and enter the development via Seelems Road or Petersons Quarry Road. This condition does not apply: a) When road closures on the above route are in place; b) When delivering to sites not involving travel on the Pacific Highway, such as within the local area or sites to the northwest or north of the quarry (eg Casino or Lismore); and c) In an emergency to avoid the loss of lives, property and/or to prevent environmental harm.	All drivers are Site Inducted and agree to the Drivers Code of Conduct which is outlined in Section 4 of the Transport Management Plan. All trucks have a GPS and IBMS (Integrated Vehicle Management System) installed which tracks the location of the drivers and alerts when they are speeding or have driven off the allocated transportation route. There have been no complaints from Council regarding the transportation route. During consultation with the community an issue was raised that trucks leaving Petersons and Coraki Quarry would be traveling on narrow roads which are also school bus routes. The system integrated in the trucks is also in the local school buses. This notifies the truck driver of nearby school buses so he has time to plan the trip and slow down.	O	
23	TRANSPORT; Road Upgrades The Applicant must cause the following road upgrade works to be undertaken to the satisfaction of the Council or the RMS (whichever is the relevant roads authority): Prior to trucks returning to the site utilising Seelems Road, provision of a minimum 6 metre sealed carriageway on Seelems Road from Petersons Quarry Road to a point	Emails between Richmond Valley Council, RMS and Quarry Solutions were provided showing that the damage repair works at the intersections of Petersons Quarry Road and Lagoon Road; Lagoon Road and Casino – Coraki Road; and Woodburn – Coraki Road and the Pacific Highway, were costed and works approved by RMS/RVC. The emails showed that this work was planned for in September 2016 (emails dated 15, 21 and 22 September 2016), with quarrying operations commencing on site in October 2016. Road and intersection upgrades have been completed and were viewed while on site visit. Invoices to RVC from Quarry Solutions for the completed works dated 30	С	

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	approximately 200 metres west of the entrance to the industrial facility at 30 Seelems Road; and Prior to commencing despatch of laden tricks from the development, asphaltic concrete/hot mix sealing of the intersections of Petersons Quarry Road and Lagoon Road; Lagoon Road and Casino – Coraki Road; and Woodburn – Coraki Road and the Pacific Highway.	September 2016 was provided as evidence that the works were completed prior to the quarry opening n October 2016. The road upgrade works at Seelems Road has not been triggered as Seelems Road is currently not in use.			
24	TRANSPORT; Road Upgrades Prior to commencing the road upgrade works required under condition 23, the Applicant must: a) Notify Council and/or the RMS (whichever is the relevant roads authority) in writing of any existing damage to the sections of road and the intersections listed in condition 23; and b) Lodge a defects liability bond with Council based on 10% of the quantity-surveyed cost of the upgrade c) works for roads for which the Council is the relevant roads authority.	Email evidence of notification of damage to roads and required repair works was noted in emails between council and RVC and Quarry Solutions in September 2016 (emails dated 15, 21 and 22 September 2016). Evidence of the defects liability bond was provided through a bank guarantee that was provided to RMS on the 26 September 2016, for the release of the defects liability bond as per the details below • GX Liability No 22986, to the value of \$38,500.00, to be held for the duration of the construction period; • GX Liability No 22987, to the value of \$38,500.00, to be held for the duration of the defects liability period.	С		
25	TRANSPORT; Monitoring of Product Transport The Applicant must, by the use of a weighbridge, make, and retain for at least 12 months, records of the time of arrival, time of dispatch, weight of load and vehicle identification for each laden truck dispatched from the development. These records must be made available to the Department on request and a summary included in the Annual Review.	Weighbridge data recorded internally using 'i-Weigh' software. Reports provided for Feb 2017, June 2017, August 2017 and November 2017. Reports show the count of trucks per hour for each day. 2016 Annual Review is available on Coraki Quarry website.	С		

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26	 TRANSPORT; Operating Conditions The Applicant must: Ensure that all laden trucks entering or exiting the site have their loads covered; and Ensure that all laden trucks exiting the site are cleaned of materials that may fall on the road, before leaving the site. Use its best endeavours to ensure that appropriate signage is displayed on all trucks used to transport product from the development so they can be easily identified by road users. 	Covering loads part of site induction and Drivers Code of Conduct (Attachment 2 of the Transport Management plan). Random inspections of load covering are completed by checking remote camera over the weighbridge. Reference to trucks being covered and cleaned within monthly checklist (Section 12.10) and within Transport Management Plan (Chapter 4). Monthly checklist (Section 12.10) includes measure that trucks must have identifying features, such as a registration plate or sign, in the event of a complaint. All internal haul roads are gravel. No evidence of tracking during site to public roads.	С	
27	Transport Management Plan The Applicant must prepare a Transport Management Plan for the development to the satisfaction of the Secretary. This plan must: a) Be prepared in consultation with RMS and Council and submitted to the Secretary for approval within 6 months of the date of this consent, or prior to the commencement of despatch of laden trucks from the development, whichever is earlier, unless otherwise agreed by the Secretary; b) Provide a clear description of the transport routes; c) Describe the processes in place for the control of truck movements;	A TMP has been prepared and was first issued to the DPE on 16.9.16, the plan was updated in response to PDE comments and reissued in October 2017.	С	

Applicant;

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	d) Describe the measures to be implemented to minimise noise from transport operations; e) Detail the procedures for receiving and addressing complaints from the community concerning traffic issues associated with heavy vehicles arriving at or leaving the development; f) Describe the driver induction and training processes; g) Include a Drivers' Code of Conduct that details the safe and quiet driving practices that must be used by drivers transporting products to and from the quarry, particularly having regard to school bus routes, intersections or sections of road where there is potential for close interactions between passing trucks, and the location of residential properties and associated private access roads; and h) Describe the measures that would be put in place to ensure compliance with the Drivers' Code of Conduct. The Applicant must implement the approved management plan as approved from time to time by the Secretary.			
28	TRANSPORT; Independent Traffic Audit Within 6 months of commencement of transport operations, and every three years thereafter, unless the Secretary directs otherwise, the Applicant must commission a suitably qualified person, whose appointment has been approved by the Secretary, to conduct an independent traffic audit of the development. This audit must: i. Have the site verification component of the audit undertaken without prior notice to the	Independent Traffic Audit completed by TMM Consulting Pty Ltd on 22 March 2017. Response to Department was submitted by Jim Lawler on 11 April 2017 (email provided during audit) which is within the 1 month required by the Condition of Consent. The Independent Traffic Audit is available on the Coraki Quarry website.	С	

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	ii. Assess the impact of the development on the performance of the road network; iii. Investigate any incidents involving heavy vehicles associated with the development, including reviewing any community complaints; iv. assess the effectiveness of the Drivers Code of Conduct; and v. Recommend any necessary measures to reduce or mitigate any adverse (or potentially adverse) impacts. Within one month of receiving the audit report, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, with a response to any of the recommendations contained in the audit report, to the satisfaction of the Secretary.				
29	Aboriginal Cultural Heritage Management Plan The Applicant must prepare an Aboriginal Cultural Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must: • be prepared in consultation with OEH and the Aboriginal community, and be submitted to the Secretary for approval prior to the commencement of operations; and • Include: • A detailed description of the measures that would be implemented to protect Aboriginal sites outside the quarry disturbance area including the two Indigenous Heritage Nondisturbance Zones (shown in Appendix 2); • A description of the measures that would be implemented if any new Aboriginal objects or	Aboriginal Cultural Heritage Management Plan approved by the Secretary. Two non-disturbance zones are on site and defined by the vegetated bunds on site. Zones are clearly defined as per the approved site plan. The unexpected finds procedure is outlined in Item 20 of the Quarry Site Induction. The Local Aboriginal Land Council for the Coraki locality is apart of the quarry grant fund group.	С		

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	skeletal remains are discovered during quarrying operations; and o Protocol for the ongoing consultation and involvement of the Aboriginal community in the conservation and management of Aboriginal cultural heritage on the site.			
	The Applicant must implement the approved management plan as approved from time to time by the Secretary.			
30	ABORIGINAL HERITAGE;	No unexpected finds.	С	
	Aboriginal Cultural Heritage Management Plan			
	If any item or object of Aboriginal heritage significance is identified on land associated with the development, the Applicant must ensure that:			
	 a) All work in the immediate vicinity of the Aboriginal item or object ceases immediately; b) A 10 m buffer area around the item or object is cordoned off with high visibility flagging tape, or the like; and c) The OEH is contacted immediately. 			
	Work in the vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the <i>National Parks and Wildlife Act 1974</i> .			

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Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking
31	BIODIVERSITY AND REHABILITATION; The Applicant must rehabilitate the lands associated with the development to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the rehabilitation strategy in the EIS and must comply with the objectives in Table 6. Table 6: Rehabilitation objectives Feature Objective Lands associated with the development (as a whole) Safe, stable and non-polluting Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and designed to minimise the visual impacts of the development when viewed from surrounding land Surface Infrastructure Decommissioned and removed, unless required for the ongoing operation of Petersons Quarry or as agreed with the Secretary Quarry Benches and Pit Floor Revegetated using a combination of pasture species and native vegetation corridors, which link other remnant vegetation on site	Rehabilitation not triggered.	NT	
32	BIODIVERSITY AND REHABILITATION; Progressive Rehabilitation The Applicant must rehabilitate the lands associated with the development progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim stabilisation measures must be implemented where reasonable and feasible to control dust emissions in disturbed areas that are not active and which are not ready for final rehabilitation. Note: It is accepted that parts of the lands associated with the development that are progressively rehabilitated may be subject to further disturbance in future.	Rehabilitation not triggered as still in development stage.	NT	

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33	Biodiversity and Rehabilitation Management Plan The Applicant must prepare a Biodiversity and Rehabilitation Management Plan for the site to the satisfaction of the Secretary. This plan must: a) Be prepared in consultation with OEH, and be submitted to the Secretary for approval within 6 months of the date of this consent, or prior to the commencement of operations, whichever is earlier, unless the Secretary agrees otherwise; b) Provide details of the conceptual final landform and associated land uses for the site; c) Describe how the management of biodiversity would be integrated with the overall rehabilitation of the site; d) Include detailed performance and completion criteria for evaluating the performance of the biodiversity management measures and rehabilitation of the site, including triggers for any necessary remedial action; e) Describe the short, medium and long-term measures that would be implemented to: f) Protect and enhance the remnant vegetation and habitat on the site, including the measures to: Protect the Macadamia tetraphylla, endangered ecological communities and threatened species on site; Rehabilitate the Macadamia tetraphylla buffer area, Hoop Pine Dry Rainforest community, and the Seelems Creek rehabilitation area as shown in Appendix 6; Ensure compliance with the rehabilitation objectives, and the progressive rehabilitation obligations in this consent;	Plan dated 16 September 2016 and approved as evidenced by an email dated 6/3/18 from DPE. Aside from the protection of remnant vegetation on the site the requirements of the plan are not yet triggered as rehabilitation has not yet commenced. Fencing and protection of remnant vegetation on site was viewed during the site audit.	С	

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	g) Include a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria; h) Identify the potential risks to the successful implementation of the plan and include a description of the contingency measures that would be implemented to mitigate these risks; and i) Include details of who would be responsible for monitoring, reviewing, and implementing the plan. The Applicant must implement the approved management plan as approved from time to time by the Secretary.			
34	BIODIVERSITY AND REHABILITATION;	Not triggered. Plan approved on the 6/3/18.	NT	
	Conservation and Rehabilitation Bond Within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan, the Applicant must lodge a Conservation and Rehabilitation Bond with the Department to ensure that the management of biodiversity and the rehabilitation of the lands associated with the development are implemented in accordance with the performance and completion criteria set out in the Biodiversity and Rehabilitation Management Plan. The sum of the bond must be determined by: a) Calculating the cost of rehabilitating the lands associated with the development taking into account the likely surface disturbance over the next 3 years of quarrying operations; and b) Employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary.	When plan was submitted to the Department a calculation for the rehabilitation bond was submitted as well.		

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	Note: If the rehabilitation of the site is completed to the satisfaction of the Secretary, then the Secretary will release the bond. If the rehabilitation of the site is not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of			
	the bond, and arrange for the completion of the relevant works.			
35	BIODIVERSITY AND REHABILITATION;	Not triggered as this is the first independent audit.	NT	
	Conservation and Rehabilitation Bond			
	Within 3 months of each Independent Environmental Audit (see condition 10 of Schedule 5), the Applicant must review, and if necessary revise, the sum of the Conservation and Rehabilitation Bond to the satisfaction of the Secretary. This review must consider the:			
	 a) Effects of inflation; b) Likely cost of rehabilitating the site (taking into account the likely surface disturbance over the next 3 years of the development); and c) Performance of the implementation of the rehabilitation of the site to date. 			
36	VISUAL IMPACTS;	Internal bunds and bunds surrounding site are covered well	С	
	The Applicant must implement all reasonable and feasible measures to minimise the visual impacts of the development, including establishing the vegetated acoustic bunds shown in Appendix 5, to the satisfaction of the Secretary.	vegetated.		
37	WASTE; The Applicant must: a) Manage on-site sewage treatment and disposal in accordance with the requirements of its EPL, and to the satisfaction of the EPA and Council;	a) Pump out system on site (Ballina Pump Out). Tax invoice for 6 March 2018 sighted. b) No waste is generated from extraction. c) General waste and recycling serviced by Council. Waste oil is collected by Summerland Environmental. Service docket for 6 March 2018 sighted outlining 300 litres of used mineral oil was collected.	ANC	A waste and recycled material register should be maintained.

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	b) Minimise the waste generated by the development; c) Ensure that the waste generated by the development is appropriately stored, handled and disposed of; and d) Report on waste management and minimisation in the Annual Review, to the satisfaction of the Secretary.	d) Waste was not reported on in the 2016 annual review. Waste reported in 2017 annual review.		
38	LIQUID STORAGE; The Applicant shall ensure that all liquid tanks and similar storage facilities (other than for water) are protected by appropriate bunding or other containment, in accordance with the relevant Australian Standards.	It was noted that the site audit undertaken on the 28 th February 2018 for the annual review raised the issue of liquid storage. This inspection found that storage was not appropriate. However at the time of the audit it was noted that there was a new locked and self bunded container on site housing all liquid storage. There is a redundant old oil tank on site that is currently not in use.	NC	The NC raised during the site inspection for the annual review on the 28 th February noted non conformances regarding liquid storage. This had been rectified at the time of this independent Environmental audit.
39	DANGEROUS GOODS; The Applicant must ensure that the storage, handling, and transport of dangerous goods is done in accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the Dangerous Goods Code.	SDS' checked and kept in main office block – several sheets checked and are not GHS compliant and older than 5 years.	ANC	Contact the manufacture to obtain and update to GHS compliant SDS' on site.
40	DANGEROUS GOODS; The Applicant must undertake a transport safety study to the satisfaction of the Secretary and in accordance with Hazardous Industry Planning Advisory Paper No 11: Route Selection (HIPAP11) prior to transporting hazardous materials above the threshold contained in State Environmental Planning Policy 33 Hazardous and Offensive Development.	No transport of dangerous goods above threshold.	С	

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41	BUSHFIRE; The Applicant must: a) Ensure that the development is suitably equipped to respond to any fires on site; and b) Assist the NSW Rural Fire Service and emergency services as much as possible if there is a fire in the vicinity of the site.	a) Water truck on site for use in emergencies and for dust suppression. Large quantities of water stored in sediment ponds available. b) There have been no fires to date therefore this has not been triggered	С	
SCHEDU	LE 4- ADDITIONAL PROCEDURES			
1	As soon as practicable and no longer than 7 days after obtaining monitoring results showing: a) An exceedance of any relevant criteria in Schedule 3, the Applicant must notify the affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the development is again complying with the relevant criteria; and b) An exceedance of any relevant air quality criteria in Schedule 3, the Applicant must send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and current tenants of the land (including the tenants of land which is not privately-owned).	a) Not triggered because agreement is not exceeded. There have been exceedances in criteria outlined in conditions, however, agreement with landowners allowed 5 dB and exceedance was below. b) No exceedances of air quality.	NT	
2	INDEPENDENT REVIEW If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 3, then he/she	Not triggered	NT	

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	may ask the Secretary in writing for an independent review of the impacts of the development on his/her land.					
3	Independent review If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision the Applicant must: a) Commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to: • Consult with the landowner to determine his/her concerns; • Conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; and • If the development is not complying with these criteria then identify measures that could be implemented to ensure compliance with the relevant criteria; b) Give the Secretary and landowner a copy of the independent review; and c) Comply with any written requests made by the Secretary to implement any findings of the review.	Not triggered.	NT			
4	INDEPENDENT REVIEW If the independent review determines that the development is complying with the relevant impact assessment criteria in Schedule 3, then the Applicant may discontinue the independent review with the approval of the Secretary. If the independent review determines that the development is not complying with the relevant impact assessment criteria in Schedule 3, then the Applicant must:	Not triggered.	NT			

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	a) Implement all reasonable and feasible measures, in consultation with the landowner, to ensure that the development complies with the relevant criteria, and conduct further monitoring to determine whether these measures ensure compliance; or b) Secure a written agreement with the landowner to allow exceedances of the relevant impact assessment criteria; to the satisfaction of the Secretary. If the further monitoring referred to under paragraph (a) above determines that the development is complying with the relevant impact assessment criteria, then the Applicant may discontinue the independent review with the approval of the Secretary.				
1 1	LE 5- ENVIRONMENTAL MANAGEMENT, REPO		С		
1	Environmental Management Strategy;	Environmental Management Strategy approved by Secretary on 24 January 2018. Plans were submitted to Department on 22 November 2017. Email from DOP sighted.			
	If the Secretary requires; the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must:	With submission of Management Plans (MP) evidence on consultation with council was included. In preparation of each specific MP, council was consulted with. MPs make part of EMS.			
	 a) Be submitted to the Secretary for approval within 6 months of the date of this consent or prior to the commencement of operations, whichever is earlier; b) Be prepared in consultation with Council; c) Provide the strategic framework for the environmental management of the development; d) Identify the statutory approvals that apply to the development; e) Describe the role, responsibility, authority and accountability of all key personnel involved in 				

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	the environmental management of the development; f) Describe the procedures that would be implemented to: • Keep the local community and relevant agencies informed about the operation and environmental performance of the development; • Receive, record, handle and respond to complaints; • Resolve any disputes that may arise during the course of the development; • Respond to any non-compliance; • Respond to emergencies; and g) Include: • Copies of any strategies, plans and programs approved under the conditions of this consent; and • A clear plan depicting all the monitoring to be carried out under the conditions of this consent. The Applicant must implement the approved management strategy as approved from time to time by the Secretary.			
1A	ENVIRONMENTAL MANAGEMENT	Consultation for each plan was undertaken where required. We noted that the Water management plan and the Aboriginal	С	
	Evidence of Consultation;	cultural heritage management plan have consultation appended to the plan itself.		
	Where consultation with any public authority is required by the conditions of this consent, the Applicant must: a) Consult with the relevant public authority prior to submitting the required document to the Secretary for approval; b) Submit evidence of this consultation as part of the relevant document;	 An email dated 9/9/16 from the EPA was sighted re the NMP. The Blast management plan condition did not require consultation with any agency therefore none was done. The Air quality management plan condition did not require consultation with any agency therefore none was done. 		

measures (see (c) above);

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	c) Describe how matters raised by the authority have been addressed and any matters not resolved; and d) Include details of any outstanding issues raised by the authority and an explanation of disagreement between any public authority and the Applicant.	 Correspondence with RMS dated 16/9/16 were sighted regarding consultation for the TMP and Council on the 15/9/16. 		
2	ENVIRONMENTAL MANAGEMENT Management Plan Requirements;	All management plans have now been approved by DPE and relevant agencies are included the requirements of this condition.	С	
	The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:	condition.		
	 a) Detailed baseline data b) A description of: The relevant statutory requirements (including any relevant approval, licence or lease conditions); Any relevant limits or performance measures/criteria; and The specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures; c) A description of the measures that would be implemented to comply with the relevant 			
	statutory requirements, limits, or performance measures/criteria; d) A program to monitor and report on the: • Impacts and environmental performance of the development; and • Effectiveness of any management			

Note: The purpose of this condition is to ensure that strategies, plans and programs are regularly updated to incorporate any measures

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	e) A contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible; f) A program to investigate and implement ways to improve the environmental performance of the development over time; g) A protocol for managing and reporting any: • Incidents; • Complaints; • Non-compliances with statutory requirements; and • Exceedances of the impact assessment criteria and/or performance criteria; and h) A protocol for periodic review of the plan. Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.			
3	ENVIRONMENTAL MANAGEMENT Revision of Strategies, Plans and Programs; Within 3 months of the submission of an: a) Incident report under condition 7 below; b) Annual review under condition 9 below; c) Audit report under condition 10 below; and d) Any modifications to this consent, The Applicant must review the strategies, plans and programs required under this consent, to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted for the approval of the Secretary.	Incident report for noise exceedance reviewed strategies and provided all relent information to DPE in accordance with Schedule 5 COA 7. Annual Review submitted March 2017. Review completed at same time. This is the first audit There is a current modification being prepared regarding the location of the processing unit. No reviews have led to a change in plans to date.	С	

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	recommended to improve environmental performance of the development.				
4	 ENVIRONMENTAL MANAGEMENT Updating and Staging of Strategies, Plans or Programs; To ensure that strategies, plans and programs required under this consent are updated on a regular basis, and that they incorporate any appropriate additional measures to improve the environmental performance of the development, the Applicant may at any time submit revised strategies, plans or programs for the approval of the Secretary. With the agreement of the Secretary, the Applicant may also submit any strategy, plan or program required by this consent on a staged basis. With the agreement of the Secretary, the Applicant may prepare a revision of or a stage of a strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this consent. Notes: While any strategy, plan or program may be submitted on a staged basis, the Applicant will need to ensure that the operations associated with the development are covered by suitable strategies, plans or programs at all times. If the submission of any strategy, plan or program is to be staged; then the relevant strategy, plan or program applies; the relationship of this stage/s to any future stages; and the trigger for updating the strategy, plan or program. 	As the quarry has only been operational since 10 October 2016 this requirement has not been triggered.	NT		
5	REPORTING Adaptive Management;	Adaptive management is occurring as evidenced by the noise incident outlined above. Long term changes were however not required.	С		

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	The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.			
	Where any exceedance of these criteria and/or performance measures has occurred, the Applicant must, at the earliest opportunity:			
	 a) Take all reasonable and feasible steps to ensure that the exceedance ceases and does not reoccur; b) Consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and c) Implement remediation measures as directed by the Secretary; to the satisfaction of the Secretary. 			
6	REPORTING	Not triggered as currently not directed to have a CCC.	NT	
	Community Consultative Committee;			
	If directed by the Secretary, the Applicant must establish and operate a Community Consultative Committee (CCC) for the development to the satisfaction of the Secretary. Any such CCC must be operated in general accordance with the Department's Community Consultative Committee Guidelines for State Significant Projects, November 2016 (or its latest version).			
	Notes:			
	The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent.			

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	In accordance with the guidelines, the Committee should comprise an independent chair and appropriate representation from the Applicant, Council and the local community.			
7	REPORTING Incident Reporting The Applicant must immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Applicant must provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	The non compliance in relation to noise was reported to the EPA and Department of Planning within 7 days of receipt of the noise assessment undertaken (the exceedance of noise actually occurred on the 29 September, but the report was not received from the noise consultant until the 5 December) as evidenced in the email dated 8 December 2017.	С	
8	REPORTING Regular Reporting The Applicant must provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.	The Blast Management Plan requires that results of monitoring relating to blasting are required to be published on Quarry Solutions Website as per the EPA's reporting requirements for publishing pollution data. At the time of the site audit blast data for Coraki Quarry was not available on Quarry Solutions website. However, since the audit e-monitoring data for Coraki Quarry has been linked under the Petersons Quarry webpage as Coraki is reported as part of the Petersons EPL. It is noted that Quarry solutions have written agreement from all neighbours stating that they don't need to be notified of each blast: 1905 Casino – Coraki Road, Coraki (28/1/16) 50 Spring Hill Road Coraki (28/1/16) 75 Spring Hill Road, Coraki (30/11/15) 50 Springhill Road, Coraki (30/1/15) 285 Lagoon Road, West Coraki (28/1/16) 95 Spring Hill Road, Coraki (29/1/16)	NC	At the time of the site audit blast data for Coraki Quarry was not available on Quarry Solutions website. However, since the audit e-monitoring data for Coraki Quarry has been linked under the Petersons Quarry webpage as Coraki is reported as part of the Petersons EPL

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Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking	
		200 Lagoon Road, West Coraki (10/?/16) During the document review for this audit the Blasting data was added to the website. Aboriginal Cultural Heritage Management Plan requires ongoing consultation through updates to the Quarry Solutions website (Section 4.2 of ACHMP). No updates in regards to Aboriginal Cultural Heritage are available on the website.			
9	REPORTING Annual Report By the end of March each year, or other timing as may be agreed by the Secretary, the Applicant must review the environmental performance of the development to the satisfaction of the Secretary. This review must: a) Describe the development (including any rehabilitation) that was carried out in the previous reporting period, and the development that is proposed to be carried out over the current calendar year; b) Include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against the: • Relevant statutory requirements, limits or performance measures/criteria; • Requirements of any plan or program required under this consent; • The monitoring results of previous years; and • The relevant predictions in the documents listed in condition 2(a) of Schedule 2;	Two annual reports have been submitted. Evidence of both was provided at the time of the audit.	С		

Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking		
	c) Identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance; d) Identify any trends in the monitoring data over the life of the development; e) Identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and f) Describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.					
10	INDEPENDENT ENVIRONMENTAL AUDIT Within two years of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant must commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:	Approval for this Independent Environment Audit was received in an email dated 16/1/18	С			
	a) Be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary; b) Include consultation with the relevant agencies; c) Assess the environmental performance of the development and whether it is complying with					
	the relevant requirements in this consent and any relevant EPL or necessary water licences for the development (including any assessment, strategy, plan or program required under these approvals); d) Review the adequacy of strategies, plans or programs required under the abovementioned approvals;					

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Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking	
	e) Recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, strategy plan or program required under the abovementioned approvals; and f) Be conducted and reported to the satisfaction of the Secretary. Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.				
11	INDEPENDENT ENVIRONMENTAL AUDIT Within 12 weeks of commencing this audit, or as otherwise agreed by the Secretary, the Applicant must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report, including a timetable for the implementation of any measures proposed to address the recommendations in the report.	This audit report was provided to Quarry Solutions and Groundwork Plus within 12 weeks of the completion of the site audit and off site document review.	С		
12	ACCESS TO INFORMATION Within 6 months of the date of this consent, until the completion of all works, including rehabilitation and remediation, the Applicant must: a) Make the following information publicly available on its website: • The documents listed in condition 2(a) of Schedule 2; • Current statutory approvals for the development; • All approved strategies, plans and programs required under the conditions of this consent; • A comprehensive summary of the monitoring results of the development, reported in accordance with the	 a and b) EIS, SEE (MOD 1) and SEE (MOD 2) are available on the Quarry solutions website as per Schedule 2, Condition 2(a) Statutory approvals for the development are available online All approved strategies and plans and their approval dates are available online Summary of monitoring results are uploaded online No complaints register online – although it is noted that there have been none to date 2016 Annual Review is available online No audit online as not triggered (2018 audit is first required) CCC is not triggered as not directed to conduct meetings 	С		

	Quarry Solutions Pty Ltd 2018					
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking		
APPEND	specifications in any conditions of this consent, or any approved plans and programs; • A complaints register, updated monthly; • The annual reviews of the development; • Any independent environmental audit, and the Applicant's response to the recommendations in any audit; • Minutes of any CCC meetings; • Any other matter required by the Secretary; and b) Keep this information up-to-date to the satisfaction of the secretary.					
1	PROJECT LIFE The project approval life will be for 7 (seven) years from the date of development consent, subject to the completion of the Pacific Highway upgrade project and noting that closure and rehabilitation activities may extend beyond the 7 (seven) year operational approval period.		NT			
2	EXTRACTION RATE The project must not extract more than 1,000,000 tonnes per annum from the Coraki Quarry, noting that the Coraki Quarry is separate from and in addition to the existing Petersons Quarry annual extraction volumes.	'Product Sold vs Production Report' printout for current 2018 period (1-1-2018 to 6-3-2018) outlines current extraction at 143,143 tonnes. At current extraction rates this indicates that annual extraction would be under 1 million tonnes. The Annual Review for 10-10-2016 to 31-12-2016 outlines production volume of 151,303.91 tonnes, mostly from overburden removal and set up of site.	С			

Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking
3	HOURS OF OPERATION Quarry operations will be undertaken between 6am and 7pm Monday to Saturday.	Refer to changes to operating hours in Schedule 3 COA 1	С	
4	HOURS OF OPERATION Blasting activities will be undertaken between 9am and 3pm Monday to Friday.	A review of Blast sheets indicates that that Blasting occurred within these lmits.	С	
5	HOURS OF OPERATION No operations will be undertaken on a Sunday or on public holidays.	Refer to changes to operating hours in Schedule 3 COA 1	С	
6	ENVIRONMENTAL MANAGEMENT The project will be undertaken in accordance with the EMP (refer to EIS Attachment 2). Prior to the commencement of the project the EMP will be updated to reflect relevant conditions of consent and other relevant authorities.	EMS strategy and plans approved.	С	
7	ABORIGINAL HERITAGE MANAGEMENT PLAN An Aboriginal Heritage Management Plan is to be prepared. Quarry Solutions will carry out the project in accordance with an Aboriginal Heritage Management Plan.	Aboriginal Cultural Heritage Management Plan approved by the Secretary and available on Coraki Quarry website	С	
8	ABORIGINAL HERITAGE MANAGEMENT PLAN The identified Non Disturbance Zones will be protected in situ for the life of the project.	Two non-disturbance zones are on site and defined by the vegetated bunds on site. Zones are clearly defined as per the approved site plan.	С	
9	TRAFFIC MANAGEMENT Sealing of Seelems Road and the first 200m of the internal access road within Lot 403 DP802985.	Not triggered as Seelems Road is currently not in use.	NT	

Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking	
10	TRAFFIC MANAGEMENT Implementing and enforcing compliance with a Driver's Code of Conduct.	Driver's Code of Conduct is enforced on site and contained within Transport Management Plan.	С		
11	TRAFFIC MANAGEMENT Installation of forward and driver facing cameras on haulage trucks managed by Quarry Solutions.	Item 12.10 of the 'Quarry Safety & Environmental Checklist' contains an item relating to trucks having installation of forward and driver facing cameras. March 2018 checklist sighted and ticked.	С		
12	TRAFFIC MANAGEMENT Installation of GPS monitoring devices on haulage trucks managed by Quarry Solutions.	As above. Checklist outlines need for GPS monitoring in trucks. GPS tracking of trucks viewed during site inspection in 'The Fleet' software.	С		
13	TRAFFIC MANAGEMENT Paying for the installation of GPS monitoring devices on all local school buses where permission is provided.	Discussion with Quarry staff indicates that local school buses are equipped with GPS software. Refer to Condition 23 of Condition of Consent.	С		
14	TRAFFIC MANAGEMENT Paying the relevant s94 contributions to the Richmond Valley Council.	Refer to Schedule 2, Condition 17	С		
15	BIODIVERSITY The measures outlined in the BAAM Biodiversity Assessment Report (refer to EIS Attachment 5) will be implemented including, but limited to the following: • Implement a 25m buffer to the Macadamia tetraphylla located on Lot 401 and the management and monitoring actions identified in Table 4.1 of the Biodiversity Assessment Report.	Not triggered as no clearing has been conducted on site.	NT		

	Quarry Solutions Pty Ltd 2018						
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking			
	 Engage a fauna spotter to inspect the Hoop Pine dry rainforest community for signs of nesting by the Black-necked Stork during May to January (inclusive). If any nesting activity is identified, a species management plan is to be developed and implemented. Restrict disturbance and access to only those areas absolutely necessary for the construction and the operation of the project. Clearly cordon off all adjacent vegetation and buffer extents that are not to be disturbed by the project, creating 'no go zones' for vehicles, materials, machinery, workers, excavated soil or fallen timber. Implement sediment and erosion control measures, including measures to avoid the spill of earth and rock downslope of the quarry footprint into areas of retained vegetation. Ensure a fauna spotter/catcher is present during clearing and site preparation works. Establish 'go slow zones' (40km/hr) for vehicles and machinery where non-gazetted roads or tracks are located adjacent to patches of native vegetation communities. Limit construction and operational work to 6am and 7pm Monday to Saturday, and any lighting within outdoor areas should comply with relevant Australian Standards and be of low spillage, with no or limited upward spillage. Minimise vehicle and machinery access and subsequent soil compaction and weed transfer risk within and adjacent to retained vegetation. Educate the workforce on the location of significant/sensitive communities and species and potential impacts from unauthorised activities. 						

Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking
16	NOISE	Vegetated acoustic bunds surround site.	С	
	The noise mitigation measures specified in Section 2.6.2 of the MWA Noise and Dust Assessment (refer to EIS Attachment 6) are to be implemented and maintained for the project, including the following:	T35 drill rigs that we use are developed and optimized for construction work and quarrying applications.		
	 Acoustic screening by way of cut, earth bunds and/or barriers to various locations; Use of a proprietary quietened rock drill; and Operation of the processing plant at the most 	The drill rig size and output are suited to the drilling parameters at Coraki/Petersons Quarry,		
	shielded location and/or implementation of acoustic treatments as necessary to comply with the relevant noise limits.	The drill rig adjusts feed pressured and hammer settings to suit the ground conditions, therefore minimising unnecessary noise and less fuel consumption.		
		The drill rigs are fitted with the latest technology drifters giving highly sufficient output without wasting energy, hence excessive noise.		
		Refer to Schedule 2 COA 2 re the processing plant		
17	DUST	AQMP prepared and implemented	С	
	The dust control measures specified in Section 4.3.3 of the MWA Noise and Dust Assessment (refer to EIS Attachment 6) are to be implemented and maintained for the project, including the following:			
	 Watering of all haul roads and access roads at a rate of approximately 2 litres/m2/hour at times when dust emissions are visible from vehicle movements; 			
	 Sealing (e.g. asphalt) part of the access road off Seelems Road for a minimum length of 200 metres west from the Seelems Road entry point; Use of effective water sprays on the processing 			
	plant;			

Ministers Condition of Consent

Condition

Quarry Solutions Pty Ltd 2018						
	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking			
ing plant nts from						
xtraction et drilling						
ockpiles through chemical						
	All these measures have been incorporated in to the Blast	С				

	 Effective water misting sprays to processing plant at transfer points including load-out points from elevated storage bins if utilised; Rock drill to have an appropriate dust extraction system with collector fitted to rig and/or wet drilling via water sprays; and Management of dust emissions from stockpiles during high wind speed conditions through appropriate use of sprinklers and/or chemical suppressant products as required. 			
18	BLASTING	All these measures have been incorporated in to the Blast	С	
	The following blast management measures will be implemented for the project:	Management Plan		
	 Establish permanent blast monitoring locations at the two closest neighbouring properties, which are 140 Newmans Road (Lot 4 DP6339) and 200 Lagoon Road (Lot 12 DP6339), Coraki. Start developing a blast vibration equation, specific to the Coraki Quarry. A suitably qualified person should be involved in this process, as using incorrect techniques can add additional cost to blast vibration control; Commence blasting using a maximum of a 12 m bench height and 89 mm blast holes to ensure compliance with airblast overpressure and blast vibration. After 3 blasts, the results can be reviewed and evaluated as to whether 102 mm blast holes should be implemented. The airblast overpressure and blast vibration compliance must be maintained; Establish the recommended Blast Exclusion Zones (BEZ). If required measure the flyrock projection distances from the first 10 blasts and recalibrate the flyrock equations. This will enable 			

Quarry Solutions Pty Ltd 2018								
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking				
	optimisation of the BEZ distance. Due to the use of a conservative value for the constant K in the prediction equations it would be expected that the exclusion distance could be reduced, however this must not be taken for granted; • All blasts must be face profiled, surveyed and bore tracked to ensure airblast overpressure compliance, combined with the ability to control face burst that can cause flyrock incidents; • Blast volumes should be maximised to reduce the frequency of disturbances to the neighbouring properties. A target blast volume of 18,750m3 and 15 tonnes of bulk explosive load is recommended. Shot sizes should be limited to a maximum of 3 rows deep initially, to minimise vibration reinforcement if utilising a non-electric initiation system. Once actual blast vibration data has been collected and analysed shot sizes may be increased, if the data supports increasing the blast Maximum Instantaneous Charge (MIC) and remaining under 5mm/s; • Orientate blasts with free faces not directly facing the sensitive receivers, to assist with airblast overpressure control; • Initiation sequencing for initial blasts, should target no more than a single blast hole MIC of 88kg until the vibration attenuation can be accurately assessed. • All proposed parameters are for initial blasting at the site. Once actual blast data is available from blasting at the proposed site, then parameters may be optimised using the analysis techniques outlined in this document. Site specific constant (k value) will require calibration for flyrock, blast vibration and airblast overpressure.							

Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking		
19	WATER The surface water management system and water balance scenario prepared by Calibre Consulting (refer to EIS Attachment 8) will be implemented.	Soil and Water Management Plan was approved by Secretary on 24 January 2018. This includes the surface water management and balance system. The site visit noted that in accordance with the plan the following was implemented.	С			
		Clean water diversion drains				
		Dirty water diversion drains				
		Water storages (sedimentation basins)				
		Dedicated and protected Stockpiling areas				
		On-site reuse of surface water runoff (in dust carts)				
		Discussions with staff indicate that there has been no need for basin dosing or offsite release of water.				
20	WATER	Refer to EPL audit checklist below	С			
	The project will be operated in accordance with the conditions of the EPL for the project once it is issued by the EPA.					
21	GREENHOUSE GASES AND HAZARDS Quarry Solutions will continue to investigate financially practicable initiatives to reduce energy consumption and greenhouse gas emissions.	Greenhouse Gas Emissions are managed on site by mobile plant and equipment being fitted with latest and energy efficient motors which contain emissions control. These are maintained to manufactures standard. Maintenance records were viewed on site during the site audit.	С			
22	GREENHOUSE GASES AND HAZARDS Dangerous goods will be stored in accordance with dangerous goods storage requirements and relevant Australian Standards.	All liquids were stored in a self bunded container at the time of the audit.	С			
23	REHABILIATION		NT			
	Upon terminal benches being reached within Lot 401, the areas of disturbance within Lot 401 will be rehabilitated to a safe,					

Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking			
	stable and non-polluting state, suitable for the recommencement of the previous land use (cattle grazing).						
24	REHABILIATION		NT				
	Areas of the Petersons Quarry used by the project will be returned to the land owner in a safe and stable state suitable for the continued operation of the Petersons Quarry.						
25	COMMUNITY ENGAGEMENT		С				
	Quarry Solutions will operate a free call telephone number for the Coraki Quarry for the life of the project.						
26	COMMUNITY ENGAGEMENT Quarry Solutions will engage with the community in relation to employment opportunities and traineeships.	Consultation with Quarry staff during the audit indicated that Quarry Solutions has made contact with local primary schools offering to host school visits to Petersons Quarry. An Open Day was held on the 19 April 2018 at the Petersons / Coraki Quarry which was open to the general public. This was a 'seed' event designed to generate interest in the community and practice workplace health and safety procedures in preparation for school visit. This finding is based on consultation with staff, however no auditable evidence was provided.	NV				
27	COMMUNITY ENGAGEMENT Quarry Solutions will provide opportunities for educational site visits by local schools and other community groups to visit the quarry.	Consultation with Quarry staff indicated that Quarry Solutions has made contact with high schools, vocational training providers and TAFE. The quarry has provided a point of contact within the HR department of Quarry Solutions that those organisations can liaise with in the event that a student comes forward with an interest in boiler making, mechanics, heavy vehicle operators, administration or accounting.	NV				

Quarry Solutions Pty Ltd 2018					
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking	
		This finding is based on consultation with staff, however no auditable evidence was provided.			
APPEND	IX 4- NOISE COMPLIANCE ASSESSMENT		l		
1	APPLICABLE METEOROLOGICAL CONDITIONS	Included in the NVMP	С		
	The noise criteria in Tables 3 and 4 in Schedule 3 are to apply under all meteorological conditions except the following:				
	 a) wind speeds greater than 3 m/s at 10 m above ground level; or b) Temperature inversion conditions between 1.5°C and 3°C/100 m and wind speed greater than 2 m/s at 10 m above ground level; or c) Temperature inversion conditions greater than 3°C/100 m. 				
2	DETERMINATION OF METEOROLOGICAL CONDITIONS	Included in the NVMP	С		
	Except for wind speed at microphone height, the data to be used for determining meteorological conditions must be that recorded by the meteorological station required under condition 17 of Schedule 3.				
3	COMPLIANCE MONITORING	Included in the NVMP	С		
	Unless otherwise directed by the Secretary, quarterly attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.				
	Note: The Secretary may direct that the frequency of attended monitoring increase or decrease at any time during the life of the development.				

Quarry Solutions Pty Ltd 2018							
Condition	Ministers Condition of Consent	Comment	C/NV/ NC/AN C/NT/O	Recommendations & Risk Ranking			
4	COMPLIANCE MONITORING Unless the Secretary agrees otherwise, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the NSW Industrial Noise Policy (as amended from time to time), in particular the requirements relating to: a) Monitoring locations for the collection of representative noise data; b) Equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; c) Modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration; and d) The use of an appropriate modifying factor for low frequency noise to be applied during compliance testing at any individual residence if low frequency noise is present (in accordance with the INP) and before comparison with the specified noise levels in the consent.	Included in the NVMP	С				

	ENVIRONMENT PROTECTION LICENCE							
Condition	Ministers Condition of Consent							
1 A1 A1.1	ADMINISTRATIVE CONDITIONS What the licence authorises and regulates This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation. Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition. Scheduled Activity Fee Based Activity Scale Extractive activities Land-based extractive activity > 500000 - 2000000 T		С					
A1.2	Notwithstanding condition A 1.1, the scale of the extraction of quarry products authorised under this licence must not exceed: 1. 250,000 320,000 tonnes per annum from Lot 402 DP802985 and Lot 408 DP1166287; and 2. 1,000,000 tonnes per annum from Lot 401 DP633427. Note: • Extraction quantities are calculated on the basis of the anniversary date of this Environment Protection Licence. • Extraction of material from Lot 401 is to cease by 30 June 2023. Premises or plant to which this licence applies	'Product Sold vs Production Report' printout for current 2018 period (1-1-2018 to 6-3-2018) outlines current extraction at 143,143 tonnes. At current extraction rates this indicates that annual extraction would be under 1 million tonnes. The Annual Review for 10-10-2016 to 31-12-2016 outlines production volume of 151,303.91 tonnes, mostly from overburden removal and set up of site.	C					
A2.1	The licence applies to the following premises:							

		T		1
	Premises Details			
	PETERSONS QUARRY AND CORAKI QUARRY			
	PETERSON'S QUARRY ROAD			
	CORAKI			
	NSW 2471			
	LOT 1 DP 310756, LOT A DP 389418, LOT A DP 397946, LOT 401 DP 633427, LOT 3 DP 701197, LOT 402 DP 802985, LOT 403 DP 802985, LOT 1 DP 954592, LOT 2 DP 954593, LOT 408 DP 1166287			
A3	Information supplied to the EPA		С	
A3.1	Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.			
	In this condition the reference to "the licence application" includes a reference to:			
	 a) The applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Traditional) Regulation 1998; and b) The licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence. 			
A4	Other administrative conditions		С	
A4.1	The licensee must, in the opinion of the EPA, be a fit and proper person to hold a licence under the <i>Protection of the Environment Operations Act 1997</i> , having regard to the matters in s.83 of the Act.			
2	DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	The General Manager and Operations Manager from Quarry Solutions have confirmed that there have	NT	
P1	Location of monitoring/discharge points and areas	been no releases from the Sediment basins,		
P1.1	The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.	therefore there have been no monitoring events or records kept of sediment basin management.		

	Water and land		
	EPA Identi- Type of Monitoring Point Type of Discharge Point Location Description fication no.		
	1 Sediment Basin Discharge Sediment Basin Discharge Water Release Point 1 (525119E, 6794883S)		
	2 Sediment Basin Discharge Sediment Basin Discharge Water Release Point 2 (525278E, 6795104S)		
	3 Sediment Basin Discharge Sediment Basin Discharge Water Release Point 3 (526143E, 6794710S)		
	4 Sediment Basin Discharge Sediment Basin Discharge Water Release Point 4 (526147E, 6794310S)		
3	LIMIT CONDITIONS		С
L.1	Pollution of waters		
L.1.1	Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the <i>Protection of the Environment Operations Act 1997</i> .		
L2	Concentration limits	Not triggered as there have been no dischargers.	NT
L2.1	For each monitoring/discharge point or utilisation area specified in the table\s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant to the table.		
L2.2	Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.	Not triggered as there have been no dischargers.	NT
L2.3	To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\s.	Not triggered as there have been no dischargers.	NT
L2.4	Water and/or Land Concentration Limits:	Not triggered as there have been no dischargers.	NT

	POINT 1,2,3,4				7				
	Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit			
	Oil and Grease	Visible				Nil			
	рН	рН				6.5 - 8.5			
	Total suspended solids	milligrams per litre		an and the same	Grand C	50			
L2.5	from the sedii	ment basin (V ured at the p	Vater Relea	ase Points	3 and 4) so	o any discharge blely arising from total falling over	Not triggered as there have been no dischargers.	NT	
L.2.6	with Condition identifies the	n L2.4, the lice relationship in/s in order t	ensee mus between N	t develop a ITU and T	statistical of SS for wat	mine compliance correlation which er quality in the of 50 mg/L TSS	Not triggered as there have been no dischargers.	NT	
L2.7	The licensee assessment r					stical correlation place of TSS.	Not triggered as there have been no dischargers.	NT	
L2.8	The licensee verification of					able the ongoing	Not triggered as there have been no dischargers.	NT	
L2.9	makes to the	statistical co	orrelation a	as a result	of the ong	nts the licensee loing verification cal correlation.	Not triggered as there have been no dischargers.	NT	
L3	Waste						Refer to COA 3.37	С	A waste and recycled material register
L3.1	the premises processing,	s to be rece reprocessing be disposed o	eived at the or dispos	ne premise sal or any	es for stor waste ge	enerated outside rage, treatment, enerated at the cressly permitted			should be maintained.

L4	Noise Limits	Refer to Schedule 3 COA 4 for detail on noise exceedance	NC	Detail provided above in COA 3.4
L4.1	Noise from the premises must not exceed an LAeq (15 minute) noise emission criterion of 35 dB(A) for receivers R1 to R9, except as expressly provided by this licence.	oxeccuaries		
L4.2	Noise from the premises is to be measured at residential receivers R1 through to R9 as identified in the <i>Noise and Dust Assessment Proposed Coraki Quarry</i> (MWA Environmental dated 4 November 2015) to determine compliance with this condition. This condition does not apply if written permission from the property owners of receivers R1 through to R9 for an exceedance of condition L4.1 has been provided to the EPA.	NVMP and monitoring is implemented	С	
	Note: The noise limits set out in condition L4.1 apply under all meteorological conditions except for the following:			
	 Wind speeds greater than 3 metre/second at 10 metres above ground level; or Temperature inversion conditions up to 3oC/1 00m and wind speeds greater than 2 metres/second at 10 metres above ground level; or Temperature inversion conditions greater than 3oC/100m 			
L5	Noise Limits	Checked in accordance with BMP	С	
L5.1	The airblast overpressure level from blasting operations in or on the premises must not exceed:			
	 a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period or one blast in each reporting period (whichever is the greater); and b) 120 dB (Lin Peak) at any time. 			
	At any point within one metre of any affected residential boundary or other noise sensitive receiver unless the location is owned by the licensee or is subject to a private written agreement between the owner of the residence or noise sensitive location as to an alternative overpressure level.			
L5.2	The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed:	Checked in accordance with BMP	С	
	 a) 5 mm/s for more than 5% of the total number of blasts during each reporting period or one blast in each reporting period (whichever is the greater); and b) 10 mm/s at any time. 			

L5.3	At any point within one metre of any affected residential boundary or other noise sensitive receiver unless the location is owned by the licensee or is subject to a private written agreement between the owner of the residence or noise sensitive location as to an alternative ground peak velocity level. Sensitive receivers R1 through to R9 are to be given at least 24 hours notice when blasting is to be a) Wind speeds greater than 3 metres/second at 10 metres above ground level; or undertaken.	Blast Management Plan (currently haven't blasted during these wind speeds). Blast occur approx. 1 – 2 times a month. Weather data provided for November 2016 to February 2017. Blast data for blasts on 21/11/2016 and 15/12/2016 (Ron Southon Pty Ltd) provided and sighted. Blast in November recorded at 11:18am. Wind speed from weather data indicates wind speeds at time of blasts did not exceed 3 metres/second.	С	
		Shot plans indicate that blast are occurring in these		
L6	Hours of Operation - Blasting hours	scheduled times	С	
L6.1	Blasting operations at the premises may only take place between 9:00am and 3:00pm Monday to Friday. (Where compelling safety reasons exist, a blast to occur outside the above hours. Prior notification of any such blast must be made to the EPA).			
L6.2	Activities covered by this licence must only be carried out between the hours of 7am to 6pm Monday to Friday, and 8am to 1pm Saturday, and at no time on Sundays and Public Holidays.	See extension of operating hours as per COA 1 above		
	This condition does not apply if written permission from the property owners of sensitive receivers R1 to R9 for an extended hours of operation has been provided to the EPA.			
4	OPERATING CONDITIONS		С	
O1	Activities must be carried out in a competent manner			
O1.1	Licensed activities must be carried out in a competent manner.			
	This includes:			
	(a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and			

	(b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.			
O2	Maintenance of Plant and Equipment	Maintenance of plant item tickets checked during suite audit	С	
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity:			
	(a) must be maintained in a proper and efficient condition; and			
	(b) must be operated in a proper and efficient manner.			
О3	Dust	AQMP implemented	С	
O3.1	Activities occurring in or on the premises must be carried out in a manner that will minimise the generation, or emission from the premises, of wind-blown or traffic generated dust.			
04	Emergency response	PIRMP available on website. No incidences.	NV	It is recommended that future PIRMP
	Note: The licensee must maintain, and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises. Details of the requirements can be found on the EPA website via the following link http://www.epa.nsw.gov.au/legislation/poefaqspirmps.htm	The GM for quarry solutions confirmed that a test of the PIRMP was undertaken on the 4 October 2017. There was no documented evidence of the PIRMP.		testing is formally documented
O5	Processes and management	No discharges.	NT	
O5.1	The sites sediment basin/s must be maintained and operated to ensure that:			
	 a) All 5 - day rainfall events up to 60.2 mm (the 90th percentile 5 day rain event) are captured. b) Any discharge from the sediment basin that occurs as a result of rainfall below the 5-day total of 60.2 mm must meet the limit conditions specified in condition L2.4. 			
O5.2	Sediment Basins shall be treated, if required, to reduce the Total Suspended Solids level to the licenced concentration limit before being discharged to the environment. Treatment can be with gypsum or any other material that has been approved by the EPA.	Water is being reused as a dust suppression and no discharges have occurred to date.	NT	
O5.3	All liquid chemicals, fuels and oils must be stored in tanks or containers inside suitable bund(s). Bund(s) are to be designed, constructed and	The audit found that a self bunded container had recently been placed on site to store liquids.	С	

	maintained in accordance with AS1940-2004 Storage and Handling of Flammable and Combustible Liquids.			
O5.4	Each sedimentation basin must have a marker (the "sedimentation basin' marker") that identifies the upper level of the sediment storage zone.	Basin contain physical marker to outline storage zones.	С	
O5.5	Whenever the level of liquid and other material in any sedimentation basin exceeds the level indicated by the sedimentation basin marker, the licensee must take all practical measures as soon as possible to reduce the level of liquid and other material in the sedimentation basin.	Not triggered.	NT	
O5.6	The licensee must maximise the diversion of run-on waters from lands upslope and around the site whilst land disturbance activities are being undertaken.	ESCP implemented	С	
O5.7	The licensee must maximise the diversion of stormwater runoff containing suspended solids to sediment basins installed on the premises.	Dirty water drains are in place in accodance with the water management plan.	С	
O5.8	Where sediment basins are necessary, all sediment basins and associated drainage must be installed and commissioned prior to the commencement of any clearing or grubbing works within the catchment area of the sediment basin that may cause sediment to leave the site.		С	
O5.9	The licensee must ensure the design storage capacity of the sediment basins installed on the premises is reinstated within 5 days of the cessation of a rainfall event that causes runoff to occur. on or from the premises.	Sentence in WMP outlines to reduce quantity of water in basin after rainfall. No audible evidence.	NV	
O5.10	The licensee must ensure that sampling point(s) for water discharged from the sediment basin(s) are provided and maintained in an appropriate condition to permit: a) The clear identification of each sediment basin and discharge point; b) The collection of representative samples of the water discharged from the sediment basin(s); and c) Access to the sampling point(s) at all times by an authorised officer of the EPA		NT	

O5.11	The licensee must endeavour to maximise the reuse of captured stormwater on the premises.	Used in dust suppression	С
O5.12	The sediment basins must meet the design and operational standards of Managing Urban Stormwater Soils and Construction: Volume 1 and Volume 2 E. Mines and quarries. This document requires that at a minimum 90 percentile five-day rainfall event be used to determine basin sizing for quarries.	Basins design standards included in WMP	С
5	MONITORING AND RECORDING CONDITIONS		С
M1	Monitoring Records		
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.		
M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them.		C
M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a) the date(s) on which the sample was taken; b) the time(s) at which the sample was collected; c) the point at which the sample was taken; and d) the name of the person who collected the sample.	Not triggered as there have been no discharges.	NT
M2 M2.1	Requirement to Monitor Concentrate and Pollutants discharged For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:		NT

M2.2	Water and/ or Land Monitoring Requirements POINT 1,2,3,4		NT
	Pollutant Units of measure Frequency Sampling Method Oil and Grease Visible Special Frequency 1 Visual Inspection pH pH Special Frequency 1 Probe Total suspended milligrams per litre Special Frequency 1 Grab sample solids Grab sample Grab sample		
M2.3	Special Frequency 1 means sampling any discharge, whether controlled or otherwise, which has not occurred from rainfall exceeding 60.2 mm over any consecutive five day period.		
M3	Testing Methods – concentration limits		NT
M3.1	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the		
	Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.		
M4 M4.1	The licensee is required to install and maintain a rainfall depth measuring device.	Basins have depth markers	С
M5	Weather monitoring	Weather station installed onsite	С
M5.1	Rainfall at the premises must be measured and recorded in millimetres per 24 hour period at the same time each day from the time that the site office associated with the activities permitted by this licence is established.		
M5.2	The rainfall monitoring data collected in compliance with Condition M4.1 can be used to determine compliance with Condition L2.5.	A weather station is onsite. Condition L2.5 has not been triggered.	С
M6	Recording of pollution complaints	No complaints in relation to pollution	NT
M6.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.		
M6.2	The record must include details of the following: a) The date and time of the complaint;		NT

	 b) The method by which the complaint was made; c) Any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) The nature of the complaint; e) The action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) If no action was taken by the licensee, the reasons why no action was taken. 		
M6.3	The record of a complaint must be kept for at least 4 years after the complaint was made.		NT
M6.4	The record must be produced to any authorised officer of the EPA who asks to see them.		NT
M7 M7.1	Telephone complaints line The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	Complaints/telephone line on signage at entrance to quarry. Complaints register was not up to date at the time of the audit, although there have been no complaints in relation to pollution events (all are re cracked windscreens etc)	ANC
M7.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	Signage at front gate includes the phone number Complaints line is also on the website.	С
M7.3	The preceding two conditions do not apply until 1 month after the date of the issue of this licence.	Noted	
M8	Blasting	Blast are monitored in accordance with the blast management plan.	С
M8.1	The licensee must monitor all blasts carried out in or on the premises at or near the nearest residence or noise sensitive location (such as a school or hospital) that is likely to be most affected by the blast and that is not owned by the licensee or subject of a private agreement between the owner of the residence or noise sensitive location and the licensee relating to alternative blasting limits.	·	

M8.2	The time of blasting, the air-blast overpressure level from blasting operations and the ground vibration peak particle velocity from blasting operations must be measured at the nearest sensitive receiver for each blast.	Blast are monitored in accordance with the blast management plan. The blast reports reviewed during the audit indicate that this data is being recorded.	С	
M9 M9.1	Other monitoring and recording conditions For the purposes of monitoring for compliance with the noise limit conditions of this licence (condition L4) noise emitted from the premises must be measured or computed at 30 metres from the nearest residential dwelling/s over a period of 15 minutes using the "FAST' response on the sound level meter. A modifying factor correction must be applied for tonal, impulsive, or intermittent noise in accordance with the document NSW Industrial Noise Policy (NSW EPA, January 2000).	Noise monitoring is occurring in accordance with this requirement as evidenced by the review of the MWA noise reports.	С	
6	REPORTING CONDITIONS	One annual return- on Quarry Solutions website.	С	
R1	Annual return documents			
R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: 1. A Statement of Compliance, 2. A Monitoring and Complaints Summary, 3. A Statement of Compliance - Licence Conditions, 4. A Statement of Compliance - Load based Fee, 5. A Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,a Statement of Compliance - Requirement to Publish Pollution Monitoring Data, 6. A Statement of Compliance - Environmental Management Systems and Practices; and 7. A Statement of Compliance - Environmental Improvement Works. At the end of each reporting period, the EPA will provide to the licensee a copy of the for in that must be completed and returned to the EPA.			
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below.		С	

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R1.3	Where this licence is transferred from the licensee to a new licensee: a) The transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and b) The new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.		NT	
R1.4	Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on: a) In relation to the surrender of a licence -the date when notice in writing of approval of the surrender is given; or b) In relation to the revocation of the licence -the date from which notice revoking the licence operates.		NT	
R1.5	The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').		С	
R1.6	The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.		С	
R1.7	Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) The licence holder; or b) By a person approved in writing by the EPA to sign on behalf of the licence holder. Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period. Note: An application to transfer a licence must be made in the approved form for this purpose.		С	

R2 R2.1	Notification of Environmental Harm Notifications must be made by telephoning the Environment Line service on 131 555. Notification of Environmental Harm	Two incidents in relation to noise exceedance. EPA notified. incident As Above	C C	
R2.2	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred. Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.			
R3 R3.1	Written Report Where an authorised officer of the EPA suspects on reasonable grounds that: a) Where this licence applies to premises, an event has occurred at the premises; or b) Where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.	Noise exceedance - consent and EPL exceedance. Refer to COA 3.4.	C	
R3.2	The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.		С	
R3.3	The request may require a report which includes any or all of the following information: c) The cause, time and duration of the event; d) The type, volume and concentration of every pollutant discharged as a result of the event; e) The name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; f) The name, address and business hours telephone number of every other person (of whom the licensee is aware) who		C	

	witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; g) Action taken by the licensee in relation to the event, including any follow-up contact with any complainants; h) Details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and i) Any other relevant matters.			
R3.4	The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.		NT	
7	GENERAL CONDITIONS	Hardcopy in labelled folder and saved electronically.	С	
G1	Copy of Licence kept at the premises			
G1.1	A copy of this licence must be kept at the premises to which the licence applies			
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.		NT	
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	On website and at office	С	

APPENDIX B SITE PHOTOS



Plate 1 View of processing plant and pit area



Plate 2 View of processing plant and pit area



Plate 3 Sediment basin 3



Plate 4 Sediment basin 2



Plate 5 Signage at end of Lagoon Road before Casino Coraki Road



Plate 6 Stockpile on site



Plate 7 Vegetated bunds along internal road



J32-1 Petersons Quarry

OSEC

Mine Site:	Peterson and Coraki Quarries	Date:		
Inspector:		Signature:		
Standard met:	ü = Standard met ü = Standard not met NA = Not applicable Unless otherwise indicated, no actions are required where standard is met.	Where standard not met:	Identify Risk Level and Task Pi Risk Level Low Medium High	riority Task Priority 1 – 1 to 2 days 2 – 2 to 5 days 3 – 5 to 10 days

Item	Observation / Required Controls	Standard Met (Y/N/NA)	Risk Level (L/M/H)	Priority (1/2/3)	COMMENTS / ACTION TAKEN
1.0	SAFETY SYSTEMS				
1.1	Have all personnel onsite received a site specific induction prior to commencement of work?				
1.2	Has the Site Induction Summary been completed?				
	Is the Site Attendance Register up to date?				
1.4	Are SWMS correct, adequate, up to date & signed?				
1.5	Are Daily Site Reports (DSR) completed daily?				
1.6	Are SDS available for all hazardous substances on site?				
	Is the Hazardous Substances Register up to date?				
1.8	Buildings & Storage				
	Are all buildings safe, free from damage and clean?				
	Are aisles in buildings sufficient in width & floors free from obstructions?				
	Is there natural airflow & extraction in buildings?				
	Are mechanical air flow devices operating effectively & regularly cleaned?				
	Is sufficient light available in buildings?				
	Are windows clean & undamaged & Is anti-glare protection used?				
	Are stairs approved & safe?				
	Is there sufficient shelving in buildings & is the SWL visible?				
	Are items on shelves neat, tidy, segregated & labelled as required?				
	Are heavy items placed on lower shelves?				
	Are odd shaped items stored safely?				
1.9	ls standard Colour Coding used, maintained & meets AS 1318:1985 & AS 1319:1994				
	Hast the Pollution Incident Response Management Plan been tested in the last 12 months?				
	Is the Pollution Incident Response Management Plan available online?				
1.10	Emergency				
	Are emergency procedures understood and on display?				
	Have all emergencies been reported as required?				
	Are all emergency exits & emergency equipment identified & accessible?				
	Are exit doors & equipment unobstructed?				
	Is there suitably trained personnel available to deal with & take control in emergency situations				
1.11	Fire Extinguishers				
	Are all fire extinguishers in good condition & serviced regularly?				
	Is there a current Register of extinguishers & service dates?				
	Are there an adequate number of extinguishers available?				
	Are the extinguishers appropriate for the type of fire they may be required to extinguish?				
	Are extinguishers easily accessible?				
	Are correct signs located at each extinguisher?				
	Are workers trained to use fire extinguishers?				
1.12	Incidents				



J32-1 Petersons Quarry

OSFC.

Item	Observation / Required Controls	Standard Met	Risk Level (L/M/H)	Priority (1/2/3)	COMMENTS / ACTION TAKEN
	Have all incidents been reported including minor & near misses?	(Y/N/NA)			
	Has a copy of all reports been sent to Head Office?				
1.13	Sub-contractors				
	Are all sub-contractors approved by HO to be onsite?				
	Are all sub-contractors SWMS reviewed by Site				
	Management and available onsite?				
	Are all Sub-contractors workers inducted?				
2.0	SITE				
2.1	Is a current Site Plan displayed?				
2.2	Are required safety signs in place (site rules, restricted areas etc)?				
2.3	Are all hazards barricaded, fenced or protected?				
0.4	Are excavations correctly shored, benched, battered or				
2.4	signposted?				
2.5	Is the quarry site tidy & free of hazards & rubbish?				
2.6	Is site security adequate (secure fences, signs & lockable gates)?				
2.7	Are traffic control measures required? Are they working effectively?				
2.8	Are works impacting local community beyond normal				
2.9	expectations? If so what actions have been taken? Access Roads				
2.7	Are all access roads wide enough for vehicles?				
	Are there adequate areas on roads for passing vehicles?				
	Is the road surface graded & free from potholes & spillages?				
	Is the camber within the range of 2-3%?				
	Are set speed limit signs displayed on the roads?				
2.10	Roads, Ramps & Dumps				
2.70	Is the Go Line graded & free from obstructions?				
	Is the surface less than 10:1 gradient?				
	Are site vehicles park a safe distance apart?				
2.11	Windrows				
	Are windrows set to the axle height of the largest tyred vehicle?				
	Are windrows sufficiently wide enough to stop vehicles?				
	Are delineators clearly visible & reflectors clean?				
2.12	Surface				
	Is the drainage system efficient for the site?				
	Is the surface graded & free from spillage & potholes?				
	Is the surface free of standing water?				
	Is dust suppression effective?				
3.0	RECORDS MANAGEMENT				
3.1	Is the SMP available onsite?				
3.2	Are policies available onsite?				
3.3	Are SWMS available onsite?				
3.4	Is the visitors' book available at the front office & being				
	used?				
3.5	Are Subcontractor SWMS & SMP available onsite?				
3.6	Is the Emergency Response Plan displayed? Are Pollution Incident Response Management Plan	 			
3.7	displayed?				
3.8	Is induction paperwork complete & a copy sent to Head Office?				
3.9	Have any SIR's been issued?				
3.10	Have any external notices or penalties been issued?	<u> </u>			
3.11	Has all relevant WMP documentation been completed?	<u> </u>			
3.12	Have records been forwarded to HO as per 02-A1-05 RMP?	ļ			
3.13	Are IMS site files being monitored?	<u> </u>			
3.14	Are time sheets signed daily by Supervisor?				
4.0	FIRST AID				



J32-1 Petersons Quarry

OSFC

Item	Observation / Required Controls	Standard Met (Y/N/NA)	Risk Level (L/M/H)	Priority (1/2/3)	COMMENTS / ACTION TAKEN
4.1	Are there adequate First Aid Kits on site?				
4.2	Is the location of first aid kits displayed? (on the site plan)				
4.3	When was the kit last serviced?				
4.4	Are stock items within their use by date?				
4.5	Is the First Aid Kit Register of Injuries up to date?				
4.6	Is there a qualified first-aider appointed / available?				
5.0	PLANT & EQUIPMENT				
5.1	General Plant requirements				
	Are Daily Plant Checklists completed correctly?				
	Are Daily Plant Checklists WH&S items actioned promptly?				
	Have Machine Orientation Forms been completed?				
	Are all plant operators competent & hold current operating tickets?				
	Is all plant when unattended, isolated by removal of keys etc?				
	Is all plant clean, tidy & regularly maintained?				
	Is the Maintenance Register current & operating?				
	Are flashing lights operational?				
	Are reversing lights and/or audible warnings operational?	1			
	Are fire extinguishers fitted to plant (as required) & in				
	current test period?	1			
	Is plant used as a crane clearly marked & approved for use? Has sub-contractor plant been inspected for WH&S issues?				
	Is plant fitted with ROP's, FOP's & TOP's as required?				
	Are overhead guards fitted as required to fixed plant?				
5.2	Machine Guarding				
5.2	Do all machine guards comply with relevant AS/NZS				
	4024.1:2006				
	Are all machine guards correctly fitted?				
	Are machine guards damaged or inadequate?				
	Have all nip / pinch points been correctly guarded?				
5.3	Conveyor				
	Are gears, pulley, shafts & nip / pinch points correctly guarded?				
	Are the drop guards sufficient to catch falling material?				
	Is access & egress to & around the plant adequate?				
	Is the emergency stop button located in a suitable position?				
	Are conveyors fitted with lanyards or equivalent where				
	required?				
5.4	Lock-out System, Usage & Labelling				
	Are written lock-out & usage procedures available?				
	Are all sources of energy securely covered?				
	Are all switches lockable?				
	Are tags / locks available when required?				
	Are all switches, isolators, valves & controls correctly				
	labelled & readable?				
5.5	Ladders, Handrails & Walkways				
	Do all ladders, handrails & walkways comply with AS/NZS 1657:1992 & AS/NZS 1892.1:1996				
	Are toe-boards correctly fitted to stairs & landings?				
	Do stairways have handrails correctly fitted?				
	Are portable ladders used of industrial strength?				
	Are all ladders regularly inspected & tested?				
	Is there identification numbers on ladders & a completed register?				
	Is access equipment inspected & safe?				
5.6	Lifting Gear & Machinery				
0.0	Is all lifting gear identified & on a completed register?				
	Is all lifting gear certification current?				
	Is the SWL clearly visible?				
	Are all required safety latches present & working correctly?				
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		1	



J32-1 Petersons Quarry

OSFC

Item	Observation / Required Controls	Standard Met (Y/N/NA)	Risk Level (L/M/H)	Priority (1/2/3)	COMMENTS / ACTION TAKEN
	Are records of regular inspections & defect repairs available?				
5.7	Connecting pipe fitting & hoses for pressure vessels				
	Are all connections & hoses in good condition with no leaks?				
	Are all connecting pipes & lines clearly labelled?				
	Are safety clips in correct location & securing pipes & lines				
	adequately?				
5.8	Hand tools				
	Are all hand tools routinely checked for damage or defects?				
	Are hand tools cleaned & stored correctly after use?				
Item	Observation / Required Controls			RESULT (H,M,L)	COMMENTS / ACTION TAKEN
6.0	ELECTRICAL SAFEGUARDING				
6.1	Portable Electrical Equipment				
	Are portable power tools in good condition?				
	Are all leads & power tools tested and tagged by a				
	competent person, correctly earthed & recorded on				
	Electrical Register?				
	Do all welders have hazard reduction devices attached?				
	Are all power tools stored correctly after use?				
	Are all electrical leads raised off the ground?				
	Earth Leakage				
	Does earth leakage offer complete coverage?				
	Is the maximum EL on all GPO circuits 30mA?				
6.3	Safe Electrical Installations				
	Is installed electrical equipment safe?				
	Has wiring been carried out by a competent person?				
	Is access restricted to switch gear / sub-stations?				
	Is there evidence of any damage to the protective sheath /				
	cable guide or conduit?				
6.4	High Voltage Power Lines				
	Do approach roads to the quarry have adequate 'High				
	Voltage' signage?				
	Are any stockpiles placed under or near power lines?				
	Is there potential for plant contact with overhead power				
	lines?				
7.0	ERGONOMICS				
7.1	Plant Operators				
	Have workers been inducted into the correct manual				
	handling techniques?				
	Do all buttons, switches, levers etc follow standard colour				
<u> </u>	coding requirements?			<u></u>	
	Is the plant design suitable for ease of use for the operators (i.e. switches, levers, ladders etc)?			· ·	
	Are seats, chairs & operating stations designed for comfort,				
	maintain correct posture & maintained?				
	Is adequate lighting available for the task being performed?				
	FATIGUE				
Q 1	Is stress associated with the site what would ordinarily be expected?				
8.2	Are hours worked on site what would ordinarily be				
	expected?		1		
	Is fatigue being monitored by Supervisors?				
9.0	AMENITIES				
9.1	Are washroom, toilets and meals rooms available, clean and tidy?				
9.2	Are rubbish bins covered and regularly emptied?				
9.3	Is clean drinking water & water to amenities available?				
9.4	Is hand-wash and hand towels available				
9.5	Are fridges & cooking utensils clean?				
	TRAFFIC MANAGEMENT				





J32-1 Petersons Quarry

QSEC

Item	Observation / Required Controls	Standard Met (Y/N/NA)	Risk Level (L/M/H)	Priority (1/2/3)	COMMENTS / ACTION TAKEN
10.1	If required are Traffic Control Plans available, operating & checked daily?				
10.2	Are road opening permits and work permits obtained & on site?				
10.3	Are the signs used the current type, legible & undamaged?				
10.4	Is advanced warning to traffic appropriate and working?				
10.5	Are suitable barriers erected to exclude the public from the site?				
10.6	Is the worksite established to provide protection for the workers on site?				
11.0	PERSONAL PROTECTIVE EQUIPMENT				
11.1	General PPE Requirements				
	Are safety harnesses & lanyards available & worn when required?				
	Is hand protection (i.e. gloves) available & worn when required?				
	Is respiratory equipment available & worn when required?				
	Is insect repellent available as required?				
11.2	Head & Foot Protection				
	Are safety hats & safety boots being worn as required?				
	Are 'hard hat areas' on site signed?				
	Are sun safe hats or attachments to hard hats available & worn as required?				
	Are the boots sufficient for the task being carried out?				
11.3	Protective Clothing				
	Are high visibility shirts / vests being worn & maintained by all workers?				
	Is the protective clothing suitable for the task being carried out?				
11.4	Eye & Face & Hearing Protection				
	Are sun/safety glasses, sunscreen, hearing protection & face shields being worn when required?				
	Are areas requiring eye, face & hearing protection signed?				
	Are eye, face & hearing protection provided & worn correctly?				
	Are face protectors (shields) available & worn when welding?				
11.5	Signs & Notices				
	Are appropriate signs displayed in correct locations & as per AS 4852.1-2009, AS04852.2-2009 & AS 1319-1994				
	Are signs in good condition, clean & easily read?				
	Are noticeboards & displays up to date & easily accessed?				
	Are all relevant procedures displayed?				
	Are there signs identifying 'open pit' & other quarry hazards?				



J32-1 Petersons Quarry

OSFC

Item	Observation / Required Controls	Standard Met	Risk Level (H,M,L)	Priority	COMMENTS / ACTION TAKEN
12.0	SITE MANAGEMENT	ivict	(11,1V1,L)		
	Are materials extracted from the Coraki Q stockpiled				
	separately from Petersons Q material?				
	Is extraction remaining above 18 metres AHD in Coraki Q?				
	Is extraction from Coraki (Lot 401 DP633427) less than 1 million tonnes this calendar year?				
	lweigh configured to 31 loads per/hr-Max				
	"Exceed maximum loads per hr Coraki warning"				
	Is plant and equipment:				
	(a) Maintained in a proper and efficient condition; and				
	(b) Operated in a proper and efficient manner. Are the boundaries of the Coraki extraction area clearly				
	marked?				
	Are extraction, stockpile and trafficable, storage and general				
	use areas clean?				
	Is the operation occurring within the following hours:				
	(a) Quarrying operations - 6am-7pm Monday to Saturday. At no time on Sundays or public holidays.				
	(b) Maintenance activities - May be conducted at any time.				
	Is the complaint register kept up to date?				
	Is the complaints register uploaded to the website at the end				
	of each month?				
	Is a telephone complaints line available during operating				
	hours for the purpose of receiving any complaints from members of the public in relation to activities conducted on				
	site or by vehicles or mobile plant?				
12.1	WATER				
	Are clean water diversion bunds well maintained and				
	operational?				
	Are stormwater management devices operating correctly,				
	well maintained? Are erosion & sedimentation controls placed where				
	required on site as per Calibre Water Management Plan?				
	Are all access zones clearly identified?				
	Have cross banks been constructed in steep slopes?				
	Is run off collected from rainfall events treated before				
	discharge? Has the water complied with the EPL criteria prior to being				
	discharged?				
	district god.				
	If NO - has an incident notification been sent to the EPA and				
	DP&E?				
	If NO - has the incident and complaints procedure been				
	initiated to enable review of the matter?				
	Are copies of the incidence notification forms kept on site?				
	Are records of sample test results kept in the Daily Site				
	Report or other record?				
	Are water monitoring results up to date and online (emonitoring.com.au)?				
	Check that the Pollution Incident Response Management				
	Plan (PIRMP) has been tested and documented if required				
	Check for sufficient capacity in sediment basins prior to				
	rainfall				
	Check if sufficient capacity in sediment basins has been reinstated after rainfall				
	Record that capacity in sediment basins has been restored				
	after rainfall				
12.2	WASTE MANAGEMENT				
	Are control measures in place for waste storage areas?				
	Are adequate disposal / collection procedures followed for				
	the collection of general waste, hazardous waste, scrap steel				
	etc?				





J32-1 Petersons Quarry

OSFC

Item	Observation / Required Controls	Standard Met	Risk Level (H,M,L)	Priority	COMMENTS / ACTION TAKEN
	Recyclable waste	iviet	(11,1V1,L)		INDICATE QUANTITY IN M3 OR TONNES
	Timber				INDIGNIE GOMENT IN MICO ON TOTALES
	Concrete				
	Metal				
	Bricks				
	Other				
	Where was waste taken to and by whom? Was it disposed				
	of by a licenced waste contractor?				
12.3	FUELS & CHEMICALS				
	Is refuelling carried out in a safe manner and location?				
	Are oils & chemicals stored correctly, including bunding &				
	ventilation?				
	Is there evidence of oil or chemical spills on site?				
	Are all containers correctly labelled?				
	Pressure Vessels				
	Is there a current up to date Register of all pressure vessels?				
	Is there an inspection & test register for all pressure vessels? Are all pressure vessels fitted with relief / safety valves?				
	Are pressure vessels fitted with relief / sarety valves? Are pressure vessels drained & free of moisture?				
	Do all pressure gauges have a visible red line?				
	Are pressure vessels stored correctly?				
	Gas Cylinders				
	Are all gas cylinders stored and secured correctly?				
	Are gas cylinders stored in a safe location?				
	Is all cylinder safety equipment functioning correctly?				
	Are the correct flashback arrestors used?				
	Are all cylinders transported in a safe & secure manner?				
12.4	FLORA AND FAUNA				
	Is a stock-proof fence maintained around the protected				
	macadamia trees with 25m buffer?				
	Is a weed contractor employed to control weeds?				
	Note – 6 months before tree clearing additional actions are				
	required – refer to Biodiversity Management Plan.				
12.5	REHABILITATION				
	Is rehabilitation being undertaken as soon as reasonably				
	practicable?				
	Are interim stabilisation measures being implemented to				
	control dust emissions in disturbed areas which are not				
	active but not ready for final rehabilitation?				
12.6	CULTURAL HERITAGE				
	Are the Indigenous Non Disturbance Zones clearly defined				
	as per the approved Site Plan?				
	Are the stockpile areas maintaining an appropriate separation from the Indigenous Heritage Non Disturbance				
	zone?				
12.7	AIR QUALITY				
12.7	Are all disturbed areas dampened down eg haul roads,				
	stockpile areas, plant areas, noise bunds, Petersons Quarry				
	Road, weighbridge area?				
	Are dust suppressants use on disturbed areas?				
	Where necessary is shielding applied to stockpiles?				
	Where necessary are sprinklers or other dust suppression				
	methods applied to stockpiles?				
	Is the processing plant enclosed or fitted with effect water				
	misting sprays?				
	Is a back up water truck available within 24hrs (eg hire)				
	Is sufficient water supply available on site?				
	Is the rainfall measuring device properly maintained?				
	Is rainfall being measured and recorded at the same time				
	each day (millimetres per 24 hours)?				
	Is the meteorological weather station operating?				





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OSFC

Item	Observation / Required Controls		Risk Level	Priority	COMMENTS / ACTION TAKEN
	Have dust bottles been collected?	Met	(H,M,L)		
	Have dust bottles been sent to GW+ for analysis?				
	Has the analysis from last month been received?				
	Is air quality monitoring demonstrating compliance with the				
	relevant standards?				
	If NO have affected residents been notified of the				
	exceedance in writing (include a copy of the NSW Health fact				
	sheet entitled "Mine Dust and You").				
	If NO have notifications been sent to the EPA and DP&E?				
	Are air quality monitoring results up to date and online				
	(emonitoring.com.au)?				
12.8	NOISE				
	Are noise barriers/bunds constructed and maintained in the				
	required locations as per the MWA Noise Management Plan?				
	North perimeter of west stockpile area (once operational)				
	South perimeter of south stockpile area				
	North perimeter of south stockpile area				
	South of Seelems Road (before using Seelems Rd)				
	North and North-eastern perimeter of Coraki and Petersons				
	Is the processing plant in the most shielded location?				
	If NO have acoustic screens been installed to				
	crushers/screens/processing equipment?				
	Where necessary to achieve compliance, are the trays of all				
	dump trucks that handle shot rock and oversize materials,				
	lined with appropriate impact absorbing material?				
	Have all new internal roads for road haulage and off-road				
	trucks been constructed to a standard which allows for				
	effective maintenance to avoid excessive noise?				
	Is mobile plant fitted with broadband reversing alarms?				
	Is fixed and mobile plant and equipment operated at the site				
	modern and selected to minimise noise emissions? Is the trucking fleet modern with air bag suspension?				
	As shown on the MWA Noise Management Plan, are				
	stockpiles being used to shield noise from internal traffic as				
	follows:				
	(a) Stockpile along the northern perimeter of the Western				
	Stockpile Area and stock/reclaim from the southern				
	side where practicable; and				
	(b) Stockpiles along the southern and eastern perimeters				
	of the Southern Stockpile Area and stock/reclaim from				
	the northern and western sides where practicable.				
	Where necessary to achieve compliance, extraction				
	sequencing should be designed such that the drill rig is				
	shielded to the north by retained topography of a minimum				
	height of 5 metres above the drilling pad level and, if				
	necessary, supplemented with earth mounding and/or				
	acoustic barriers to achieve the overall physical shielding.				
	Is the rock pick in the most shielded location?				
	Has phase noise testing been commissioned to confirm				
	acceptable siting/acoustic treatment of the processing plant?				
-	Are fixed and mobile plant and equipment being maintained				
	to minimise noise emissions?				
	Has the next quarterly noise monitoring been booked?				
	Did the last quarterly noise monitoring demonstrating				
1	compliance?				



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OSFC

Item	Observation / Required Controls	Standard Met	Risk Level (H,M,L)	Priority	COMMENTS / ACTION TAKEN
	If NO have corrective actions been undertaken to modify		1		
	operations/implement additional mitigation measures and				
	have notifications been sent to the EPA and DP&E.?				
	If NO have the incident and complaints procedures been				
	initiated to review the matter and re-establish compliance?				
	Are all reasonable and feasible measures being implemented				
	to minimise noise emissions from the development (i.e. low				
	noise machinery, appropriate maintenance of machinery and				
	application of low noise operational practices)?				
	Are the following general noise management strategies in				
	place?				
	- Are fixed engines, pumps and compressors enclosed				
	where practicable?				
	- Is equipment maintained in accordance with the				
	original equipment manufacturer's specifications?				
	- Is equipment shut down when not in use?				
	- Is vehicle speed of 40 km/hr on internal access roads				
	maintained?				
	- Is heavy mobile equipment fitted with broadband reversing alarms?				
	- Is the unnecessary operation of plant or revving of mobile or stationary motors and engines avoided?				
	- Is fixed and mobile plant and equipment operated at				
	the site selected and maintained to minimise noise				
	emissions?				
	Are noise monitoring results up to date and online				
	(emonitoring.com.au)?				
12.9	DRILL & BLAST				
	Is blasting at Coraki Q occurring twice or less per calendar				
	month, excluding blasts required to ensure the safety of				
	workers?				
	Is blasting occurring within the hours of:				
	(a) 9am-3pm Monday to Friday; and				
	(b) At no time on Saturday, Sunday or public holidays.				
	Is the drill rig a quietened drill rig?				
	Where necessary to achieve compliance, is extraction				
	sequencing designed such that the drill rig is shielded to the				
	north by retaining topography of a minimum height of 5m				
	above the drilling pad level and supplemented with earth				
	mounding/acoustic treatment of the processing plant (if				
	necessary)?				
	Patterns				
	Is access restricted with signs, windrows or cones?				
	Are windrows in place around the face?	1	 		
	Are patterns marked?		1		
	Has dust control been established for the drill rig?		-		
	Is the drill rig in the correct orientation with the face?				
	Explosives – Practical				
	Are explosives stored, transported & used in accordance				
	with AS?				
	Are SWMS correct & in place?				
	Has a misfire procedure been established?				
	Have exclusion zones been established?				
	Have ignition & electrical sources been removed from close				
	proximity?				
	Explosives – Authorisation				
	Are persons handling explosives licensed & competent?				
	Community notification				
	Were Residents 1 to 9 given 24 hours notice of when		[
	blasting was to be undertaken in the preferred method?				
	Was monitoring of the blast carried out in or on 140		<u> </u>		
	Newmans Road, Coraki (nearest sensitive receptor)?				



J32-1 Petersons Quarry

OSFC.

Item	Observation / Required Controls	Standard Met	Risk Level (H,M,L)	Priority	COMMENTS / ACTION TAKEN
	Note: Monitoring is to include air-blast overpressure level and ground vibration peak particle velocity.		()))		
	Did the blast monitoring demonstrate that the airblast				
	overpressure level from blasting did not exceed 115 dB (Lin				
	Peak)?				
	(SNO				
	If NO was the maximum below 120 dB (Lin Peak) and the first occurrence in the reporting period?				
	Did the blast monitoring demonstrate that the ground				
	vibration peak particle velocity from blasting did not exceed				
	5 mm/s?				
	If NO was the maximum below 10 mm/s and the first				
	occurrence in the reporting period? Are blasting results up to date and online				
	(emonitoring.com.au)?				
12.10	TRANSPORT MANAGEMENT				
	Are no more than 31 laden trucks being dispatched per hour				
	from Coraki, excluding Petersons? Refer to detailed log.				
	Are correct records being kept of each laden truck				
	dispatched from the development?				
	Are all laden trucks covered and cleaned?				
	Do all trucks have an identifying number or sign (eg Rego Number) to identify it in the event of a complaint?				
	Are all internal haulage roads and tracks maintained to a				
	suitable standard (i.e. no uneven surfaces or potholes)?				
	Are there measures in place to prevent mud and dirt from				
	being tracked onto the external roads?				
	Are traffic speed signs visible and maintained?				
	Have any incident or infringement alerts been received? Are all drivers signing on the EDPMS at the weighbridge each				
	morning or first entry to the site?				
	Is the weighbridge management software maintained and				
	configured to ensure vehicles weights do not exceed the				
	limits prescribed by the Heavy Vehicle (Mass, Dimension and				
	Loading) National Regulation 2013?				
	Have all drivers completed the driver induction and signed the code of conduct?				
	Are forward and driver facing cameras installed on all				
	haulage trucks managed by QS?				
	Are GPS monitoring devices fitted on all haulage trucks				
	management by QS?				
	Are drivers correctly operating the GPS monitoring devices in				
	the haulage trucks? Are all relevant staff receiving alerts regarding non-				
	compliance with the code of conduct?				
	Has permission been granted for all local school buses, using				
	the haulage route, to have GPS monitoring devices installed				
	and have these devices been installed?				
	Have the following truck noise management measures been imposed?				
	- Are loads covered/secure?				
	- Are drivers complying with speed limits on all roads?				
	- Are drivers only using horns when appropriate to do				
	so?				
	- Are drivers limiting engine brake noise in residential				
	areas? - Are drivers reducing truck speed in residential areas, at				
	road works and when passing stationary vehicles?				
	- Are modern trucks with Euro 5 and Euro 6 compliant				
	engines used?				
	- Are modern trucks with airbag suspension used?				
13.0	OPEN PIT				
13.1	General				



J32-1 Petersons Quarry

OSF (

Quarry Solutions Pty Ltd ABN - 13 133 700 848 24a Ozone St Chinderah NSW 2487 – Ph. 0266 712 300

Item	Observation / Required Controls	Standard Met	Risk Level (H,M,L)	Priority	COMMENTS / ACTION TAKEN
	Have geological & geotechnical design conditions been considered for the following:				
	Faults?				
	Jointing?				
	Face height?				
	Potential for subsidence / slumping?				
	Potential for accumulation of hazardous substances?				
	Monitoring systems?				
13.2	Walls				
	Are walls designed to the correct angle?				
	Scaled down?				
	Are there any cracks or over-hangs?				
	Is there loose material or fretting?				
	Is there any water seepage?				
	Is the access ramp away from the working face?				
13.3	Berms				
	Do berms have an adequate width ratio to wall height?				
	Is the berm surface stable and without cracks?				
	Is there adequate drainage?				
13.4	Pit Surrounds				
	Is draining guided away from the pit?				
	Are security fences & signage in place?				
14.0	INSPECTIONS (COUNCIL, EPA, SUPERINTENDENT)				
14.1	Are minutes of site inspection meetings recorded?				
14.2	Are site inspections recorded on DSR's?				
14.3	Have any penalties or notices been issued?				
14.4	Have penalties & notices received been recorded on DSR's?				
15.0	WEATHER CONDITIONS				
15.1	If required are wind readings recorded?				
15.2	Is rainfall recorded on DSR's?				

Complete an SIR to rectify non-conformances promptly

GENERAL COMMENTS (Including Corrective Action):	
, , , , , , , , , , , , , , , , , , , ,	

ist any other person who assisted with this inspectio	on
Supervisor Signature: Date: .	
Systems Manager Signature:	Date:

Waste Register

	_	Feb-18	
Date	description	invoice number	Notes
6/02/2018	Pump Stations	16362	3000 litres
13/02/2018	Septics Vac out	16553	2000 Litres
14/02/2018	3m Front Lift	1526	Gen
15/02/2018	12M Skip Bin	1153	Bin No. 12-17
20/02/2018	Septics Vac out	16512	1800 litres
22/02/2018	3m Front Lift	665	Gen
27/02/2018	Septics Vac out	16527	2000 litres
28/02/2018	3m Front lift	2308	Gen