GROUNDWORK

ANNUAL REVIEW - CORAKI QUARRY 1 JANUARY 2018 TO 31 DECEMBER 2018

Prepared for: Quarry Solutions Pty Ltd

Date: 30 May 2019

File Ref: documents / 1837.630.005 r1

Name of operation	Coraki Quarry Project		
Name of operator	Quarry Solutions Pty Ltd		
Development consent / project approval #	SSD 7036 Mod 2		
Name of holder of development consent / project	Quarry Solutions Pty Ltd		
approval			
Mining Lease #	Lot 401 DP633427, Lots 402 and 403 DP 802985; Lot		
	408 DP 1166287; Lot A DP397946; Lot A DP389418;		
	Lot 3 DP701197; Lot 2 DP954593; Lot 1 DP954592; Lot		
	1 DP310756; Lot 1 DP1165893; and Lot 1 DP1225621		
Name of holder of mining lease	Quarry Solutions Pty Ltd		
Water licence #	NA		
Name of holder of water licence	NA		
MOP/RMP start date	NA		
MOP/RMP end date	NA		
Annual Review start date	1 January 2018		
Annual Review end date	31 December 2018		
	and accurate record of the compliance status of Coraki		
	er 2018 and that I am authorised to make this statement		
on behalf of Quarry Solutions Pty Ltd.			
	s of section 122B(2) of the Environmental Planning and Assessment		
	alse or misleading information (or provide information for inclusion in)		
an audit report produced to the Minister in connection with an en	vironmental audit if the person knows that the information is false or		
misleading in a material respect. The maximum penalty is, in the c	case of a corporation, \$1 million and for an individual, \$250,000.		
b) The Crimes Act 1000 centains other offeness relating to feles	ad micloading information, coation 1020 (Intention to defraud by false		
	nd misleading information: section 192G (Intention to defraud by false onment); sections 307A, 307B and 307C (False or misleading		
applications/information/documents – maximum penalty 2 years impris			
Name of authorised reporting officer	Brett Conlan		
Title of authorised reporting officer	Quarry Manager		
Signature of authorised reporting officer	DAI		
	GAC.		
Date	30 / 05 / 2019		

Table 1 – Annual Review title block

Document Control

Project/ Report Details

Document Title:	Coraki Quarry 2018 Annual Review
Principal Author:	Lahnie Ward
Client:	Quarry Solutions Pty Ltd
Ref. No.	1837.630.005 r1

Document Status

Issue	Description	Date	Author	Reviewer
0	Draft Coraki Quarry 2018 Annual Review	March 2019	L. Ward	J. Lawler/B. Conlan
1	Final Coraki Quarry 2018 Annual Review	March 2019	L. Ward	J. Lawler/B. Conlan
R1	Amendment as per DPE letter dated 24 May 2019	30 May 2019	J. Lawler	B. Conlan

Distribution Record

Recipient	
Quarry Solutions Pty Ltd	1E
NSW Department of Planning and Environment	1E
Director for Infrastructure and Environment - Richmond Valley Council	1E

Groundwork Plus ABN: 13 609 422 791

Queensland 6 Mayneview Street, Milton Qld 4064 2/1 First Street, Nuriootpa SA 5355 PO Box 1779, Milton BC, Qld 4064 P: +61 7 3871 0411 F: +61 7 3367 3317

E: info@groundwork.com.au

South Australia PO Box 854, Nuriootpa SA 5355 P: +61 8 8562 4158

Copyright ©

These materials or parts of them may not be reproduced in any form, by any method, for any purpose except with written permission from Groundwork Plus.

Table of Contents

Statement of Compliance		
Department of Planning and Environment Comments	6	
Introduction Introduction Introduction		
2 Compliance Summary 2.1 Non-Compliances		
3 Approvals	10	
 4 Operations Summary	10 	
5 Actions required from previous Annual Review	12	
6 Environmental Performance 6.1 Water Quality 6.1.1 EIS Prediction 6.1.2 Actual	13 13	
6.2 Noise	14 	
 6.3.1 EIS Prediction 6.3.2 Actual 6.3.3 Monitoring Trends 6.4 Air Quality 6.4.1 EIS Prediction 		
 6.4.2 Actuals 6.4.3 Monitoring Trends 6.5 Biodiversity 6.5.1 EIS Prediction 6.5.2 Actual 	20 21 21	
6.6 Cultural Heritage	21 21 21	
 6.7 Management Plans 6.8 Visual Impacts	23 23 23	
6.9.1 EIS Prediction		

Table of Contents

6.9.2 Actual	
6.10 Waste Management	
6 10 1 FIS Prediction	27
6.10.2 Actual	
6.11 Environmental Performance Summary	
7 Rehabilitation	
8 Community	
8.1 Complaints	
9 Actions for next reporting period	

TABLES

Table 1 – Annual Review title block	1
Table 2 - Statement of Compliance	4
Table 3 – Non-Compliances	
Table 4 – Amendments	
Table 5 – Production Summary	10
Table 6 – Actions from Previous Annual Review	
Table 7 – Noise Monitoring Results	14
Table 8 – 2018 Blasting Results	16
Table 9 – 2018 Blasting Results	17
Table 10 – Annual Dust Deposition Monitoring Results	19
Table 11 – Annual Dust Deposition Summary (Total Insoluble Matter)	
Table 12 – Environmental Performance Summary	29
Table 13 – Rehabilitation Status	31

DRAWINGS

Site Location Plan	(Drawing No.1837.DRG.007)
Blast Area & Exclusion Zone	(Drawing No.1837.DRG.092R1)
Environmental Monitoring Locations	(Drawing No. 1837.DRG.091A)

ATTACHMENTS

Attachment 1 Audit Checklist

APPENDICES

Appendix 1	DGR Production Data
Appendix 2	Evidence of Conservation and Rehabilitation Bond

Statement of Compliance

This annual review has been conducted to satisfy Schedule 5, Condition 9 of the Development Consent (DC) SSD_7036, whereby the annual environmental performance of the project is reviewed. The review period for this report is 1st January 2018 to 31 December 2018. A statement of compliance for the project is provided below in Table 2.

Were all conditions of the relevant approval(s) complied with?			
Development Consent (DC) # - SSD 7036 Mod 2	No		

Relevant Approval	Cond. #	Conditions description	Compliance Status	Comment	Where addressed in annual review
DC # - SSD 7036 Mod 2	Sch 2, Condition 2	 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. 	Non-compliant	The crusher and screener are located outside of the Processing Plant area as marked in Appendix 2 of the DC.	Section 2.1
DC # - SSD 7036 Mod 2	Sch. 3, Condition 4	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.	Non-compliant	Measurements undertaken in June and September 2018 exceeded prescribed limits.	Section 6.2.2 Table 7
DC # - SSD 7036 Mod 2	Sch. 3, Condition 34	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.	Non-compliant	Lodgement of bond was past the due date.	Section 2.1

Table 3 – Non-Compliances

Relevant Approval	Cond. #	Conditions description	Compliance Status	Comment	Where addressed in annual review
DC # - SSD 7036 Mod 2	Sch 5, Condition 3	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.	Non-compliant	A review of the strategies, plans and programs required under the consent has not been conducted.	Section 2.1

The risk level has been deemed as low as the non-compliance has the:

- potential for moderate environmental consequences, but is unlikely to occur; or
- potential for low environmental consequences but is likely to occur.

Department of Planning and Environment Comments

The 2017 Annual Review was submitted in March 2018. Written responses have been received from the Department of Planning and Environment (DP&E) on the 20th September 2018 and 17 January 2019 requesting additional information be included into the Annual Review. The comments provided are listed below and the applicable section of this review where the item has been addressed. No additional comments have been received since the last submission.

DP&E Comment	Section
Letter dated 24 May 2019	
Requirements in Annual Return Response letter dated 24 May 2019	
Table 8 has 2017 dates, amend to 2018 dates and update corresponding monitoring information.	Section 6.3.2, Table 8
 Production data provided to DRG is to be included in the Annual Review (Schedule 2, Condition 14). Please append this data to the Report and provide evidence confirming that the data was provided to DRG. 	Appendix 1
Evidence of payment of the Conservation and Rehabilitation Bond (\$186,024.60) to the Department as stated in paragraph 3 of Section 2.1 Non-Compliances.	Appendix 2
Table 12 in the report summarises all the Environmental Performance categories exception Waste – please include waste summary in this table.	Section 6.11, Table 12
Letter dated 17 January 2019	
 <u>Requirement in Annual Return Response letter - dated 30 May 2017</u> A comparison of the EIS predictions with the Report findings as requested in item (g) the previous DPE letter as required by Schedule 5, Condition 9(b) of the consent. 	Section 5.11, Table 11
 <u>Schedule 5, Condition 9 (Annual Review) of the approval requires</u> Discussion about the trends in the monitoring data; Discussion about any differences between predicted and actual impacts. 	Section 5.11, Table 11
 <u>Annual Review- 11 Incidents and non-compliances</u> The statement of non-compliance does not include the identified noise non-compliance provided in Table 6 (previously Table 7) of the report. All future non-compliances that occur during the reporting period should be included in Table 2 (previously Table 3), Table of non-compliances in the Report. Comment should also be provided to confirm where non-compliances have been reported to relevant agencies in accordance with approvals. 	Table 3 does include the identified non- compliance as this was inserted during the first revision.
 <u>Annual Review- 12 Activities to be completed in the next reporting period</u> Section 3.2 of the Report identifies maintenance of the earth batters (acoustic). Further details of timeframes of the maintenance activities planned for the acoustic earth batters is required. 	Section 3.2
 <u>Schedule 4, Condition 1 (Notification of Landowners) of the approval</u> Landowners affected by exceedances are required to be notified within 7 days. The Department notes that landowners were not notified of the noise exceedance in September 2017. This is a non-compliance. It should also be included in Table 2 (previously Table 3) and addressed in section 11 of the Report. 	Section 5.2 and Table 3.
Schedule 5, Condition 12 (Access to Information) of the approval • The Department acknowledges that monthly traffic and production data, and a Complaints Register have been published on the company's website. The Department checked the Quarry Solutions website on the 11 January 2018 and notes that the complaints register has not been updated for the months of November and December 2018. Please ensure that the complaints register is updated monthly as is required by the condition. Letter dated 20 th September 2018	Noted. This requirement will be addressed in the 1 January 2018 – 31 December 2018 Annual Review.
<u>Previous Annual Return Response letter</u> Quarry Solutions have not compared the EIS predictions as requested in item (g) of the previous DPE response letter as required by Schedule 5, Condition 9(b) of the consent.	Section 5
 <u>Schedule 5, Condition 9 (Annual Review) of the approval</u> There is no discussion about the trends in the monitoring data as required by Schedule 5, Condition 9(d) of the consent; 	Section 5

Table 4 – Amendments

DP&E Comment	Section
 There is no discussion about any differences between predicted and actual impacts as is required by Schedule 5, Condition 9(e) of the approval; Limited information is provided about what measures will be implemented over the coming calendar year to improve the environmental performance of the development. The Department 	
 seeks confirmation of any specific actions that are to be undertaken (if any - if not please state that) in relation to various environmental aspects outlined in the Annual Review Guideline; and Update the distribution record in the document control section of the AR to include the local council as is required by Condition 9 of Schedule 5 of the approval. 	
<u>Annual Review- 2 Introduction</u> Introduction - The names and contact details of key personnel are required in the introduction of the AR (see section 2 of the AR Guideline);	Section 1.1
 <u>Annual Review - 4 Operations Summary</u> Operations Summary - Section 3.1.2 states that the weigh bridge will stop recording data if the limit of 30 trucks per hour is reached until the next hour commences. Please confirm how operations are managed once the hourly traffic limit is reached. 	Section 3.1.2
 <u>Annual Review-6 Environmental Performance</u> Biodiversity - not addressed - Any relevant plan requirements should be discussed. Heritage - not addressed - Any relevant plan requirements should be discussed. 	Section 5.5 and 5.6
 <u>Annual Review- 11 Incidents and non-compliances</u> The statement of non-compliance does not include the identified noise non-compliance which is addressed in Table 7 of the report. All future non-compliances that occur during the reporting period should be included in Table 3 (Table of non-compliances) in the Annual Return. Comment should also be provided to confirm if non-compliances have been reported to relevant agencies in accordance with approvals. 	Statement of Compliance, Table 3
 <u>Annual Review- 12 Activities to be completed in the next reporting period</u> This section was not adequately addressed and should include more detail about the activities and a timeline for the implementation of any new measures. Section 5.7 of the report states that Quarry Solutions are investigating options in relation to the liquid storage/dangerous goods which are kept on site and that work is expected to be completed by years end. During the site visit you advised that the fuel tank and dangerous goods would be removed from site as refuelling is done by tankers that come to site each night. Please include detail and a timeframe for removal of the fuel tanks, drums and associated equipment which are not kept in accordance with Schedule 3, condition 38 or 39 of the approval. Section 3.2 of the AR identifies maintenance of the earth batters (acoustic). A timeframe as well as more details of the maintenance activities planned for the acoustic earth batters is also required. 	Section 3.2
 <u>Schedule 3, Condition 37 (Waste) of the approval</u> Requires a report on waste management and minimisation in the Annual Review. The Department notes that this was not included in the current Annual Review and should be included in future Annual Reviews. This is a non-compliance which should also be included in Table 3 of the Annual Review and addressed in section 11 of the Annual Review. 	Section 5.10.
 <u>Schedule 4, Condition 1 (Notification of Landowners) of the approval</u> Requires notification of exceedances to affected landowners within 7 days. The Department notes that notifications were not provided to landowners following the identified noise exceedance in September 2017. This is a non-compliance which should also be included in Table 3 of the Annual Review and addressed in section 11 of the Annual Review. 	Statement of Compliance, Table 3

1 Introduction

Quarry Solutions Pty Ltd (Quarry Solutions) operate the Coraki Quarry, a hard rock quarry located at Petersons Quarry Road, Coraki, New South Wales. Refer to Drawing No. 1837.DRG.007.

A Development Consent (DC) (number SSD_7036) and Environment Protection Licence (EPL) No. 3397 has been issued for the Coraki and Petersons Quarry. This review has been conducted and prepared in accordance with the NSW Department of Planning and Environments *Annual Review Guideline October 2015* to satisfy the requirements of Schedule 5, Condition 9 of the modified Development Consent for the Coraki Quarry Project.

Schedule 5, Condition 9 states:

Annual Review

By the end of March each year, the Applicant shall review the environmental performance of the development to the satisfaction of the Secretary. This review must:

(a) describe the development (including rehabilitation) that was carried out in the previous calendar year, 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;
- the monitoring results of previous years; and
- the relevant predictions in the documents listed in condition 2 of Schedule 2;

(c) identify any noncompliance 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.

1.1 Key Site Personnel

Brett Conlan – Quarry Manager M: 0428 586 281 T: 02 6671 2300 E: brett.conlan@guarrysolutions.com.au

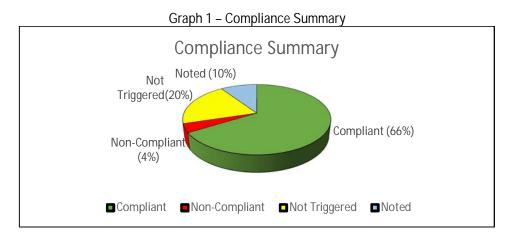
2 Compliance Summary

On 27th February 2019, a site audit was undertaken to determine compliance status with the conditions of approval. The audit was attended by the sites quarry manager, Brett Conlan and Lahnie Ward (independent auditor). Refer to Attachment 1 – Audit Checklist.

The compliance status of each condition in the Development Consent was determined using the following descriptors:

Status	Description
Compliant	Sufficient verifiable evidence has been collected to demonstrate that all elements of the
	requirement have been complied with within the scope of the audit
Non-compliant	One or more specific elements of the conditions or requirements have not been complied with
	within the scope of the audit.
Not triggered	A requirement has an activation or timing trigger that has not been met at the time when the
	audit was undertaken, therefore an assessment of compliance is not relevant.

In total, seventy-seven (75) conditions were assessed during the audit, 49 were compliant, 4 were non-compliant, 15 were not applicable and 7 were noted. The graph below provides a visual interpretation of audit findings.



2.1 Non-Compliances

- Schedule 2, condition 2 requires compliance with the development consent. The crusher and screener are located outside of the Processing Plant area as marked in Appendix 2 of the DC and are located in the Coraki extraction area. An application to modify the development consent to reflect this, was submitted to the Department on 11 March 2019.
- 2) Schedule 3, condition 4 requires that noise generated by the development does not exceed the criteria in Table 3 at any residence on privately-owned land. Monitoring conducted in June and September identified exceedances of the prescribed limits.
- 3) Schedule 3, condition 34 requires the lodgement of Conservation and Rehabilitation Bond with the Department within 6 months of the approval of the Biodiversity and Rehabilitation Management Plan. The bond was due to be lodged by the 5th October 2018. A copy of the bond is provided as Appendix 2 of this report.
- 4) Schedule 5, condition 3 requires a review of the strategies, plans and programs required under the consent. Reviews were not undertaken in 2018 as required.

3 Approvals

The following approvals are those held by Quarry solutions Pty Ltd and are relevant to the operation of the Coraki Quarry during the 2018 calendar year.

- Development Consent SSD 7036 as modified by the New South Wales Minister for Planning in October 2016 and June 2017.
- Environmental Protection Licence (EPL) No. 3397. A notice of variation of licence 3397 was issued to Quarry Solutions Pty Ltd 1 May 2017.

4 Operations Summary

Quarrying operations are permitted to extract and or process 1 million tonnes of quarry products in any calendar year. A production summary is provided in Table 5 below. Activities which occurred on site during the reporting period include extraction of material, crushing of material, screening of material and stockpiling of material. In addition to processing works, the crushing and screening plant was established and an internal haul road (up to the tip head) constructed. Refer to Appendix 1 for the product data information submitted to Department Planning & Environment, Resources & Geoscience (DRG) for the 2017 – 2018 reporting period.

aterial	Approved Limit	Previous reporting period	This reporting period	N re		

(1st Jan 2017- 31st Dec 2017)

589,874.68 t

Table 5 – Production Summary	y
------------------------------	---

995, 438 t

(1st Jan 2018- 31st Dec 2018)

4.1 Other Operations

Quarrying products

(e.g. rock)

Mat

4.1.1 Hours of Operation

Schedule 3 (Noise) of the development consent, outlines the permitted operating hours and extended operating hours. Quarry Solutions have previously obtained written agreements from affected landowners and currently operate under the extended hours which are as follows:

- Monday to Saturday 6am to 7pm
- Sundays and Public Holidays no works are permitted

1 million tonnes

4.1.2 Transport Rates

Permitted transport rates are outlined in Condition 9 Schedule 2 of the development consent which states up to 273 laden trucks per day are permitted to be dispatched. The weighbridge software currently used, allows up to 30 tucks per hour to be dispatched. If this limit is reached in a given hour, the weighbridge will stop recording data until the next hour commences.

In the event the dispatch limit is at risk of being exceeded, the weighbridge software will shut the system down and the weighbridge operator will then cease operation and movement of trucks, until the next hour comes around. To maintain compliance with the permitted rate of 273 per day, the weighbridge operator regularly checks dispatch volumes during the day to check compliance is being met.

Vext reporting period

1,000,000 t

4.2 Next Reporting Period

Activities to be undertaken in the next reporting period will be similar to those from last year's annual report and will include the following:

- Quarrying activities such as:
 - drilling and blasting exposed underlying rock to a manageable size or extraction of less competent or fractured rock using mechanical equipment (e.g. hydraulic excavator or bulldozer with ripper attachment);
 - loading won material from the extraction face by front end loader or excavator into off highway trucks for cartage to the crushing and screening plant;
 - o processing of the won material by the crushing and screening plant;
 - stockpiling of material in overhead storage bins/silos for either blending to produce roadbase using a pugmill or stockpiled on ground in the stockpile area/hardstand area by either front end load or off highway trucks;
 - loading of products into road trucks using either a front-end loader or directly from the pugmill for transport off site.
- Maintenance of vegetated earth batters (acoustic) including weed management. Visual inspections (including
 after rain events) will be conducted by the Quarry Manager on a weekly basis during the warmer months and
 monthly during colder months. The condition of the batters will be assessed and where necessary, weed
 removal, weed spraying, grass trimming and or replanting of areas requiring additional vegetation will be
 undertaken. Any maintenance works will be recorded in the next reporting period. Local contractor engaged to
 spray weeds approximately 3 times last year.

Vehicles and equipment typically used on Site include (but are not limited to), mobile crushing, screening and blending plants, drill rigs, excavators, front end loaders, off highway trucks, water trucks, light vehicles and on-road delivery trucks.

5 Actions required from previous Annual Review

Refer to Table 6 – Actions from Previous Annual Review.

Action from previous Annual Review	Requested by	Action taken by operator
 Placement of mobile tank on hardstand and within a bunded area; Decommissioning of current fuel storage area 	Recommendation from previous years review (section 8.)	The mobile fuel tank has been removed from site. Refuelling is now conducted by an external party who refuels plant and equipment prior to the site closing. The old storage tank that was not in use is still on site and will not be removed however, all site personnel are aware that this tank is not operational.
Removal of obsolete intermediate bulk containers (IBC).	Recommendation from previous years review (section 8.)	Completed
Installation of foam dust suppression system to main plant.	Recommendation from previous years review (section 8.)	Completed
Installation of additional pump sprays in primary tip hopper.	Recommendation from previous years review (section 8.)	Completed
Upgrade of water cart to increase capacity.	Recommendation from previous years review (section 8.)	Completed

Table 6 – Actions from Previous Annual Review

6 Environmental Performance

6.1 Water Quality

6.1.1 EIS Prediction

A surface water assessment was undertaken during the EIS process to determine potential impacts to Seelems Creek and Richmond River as a result of flow from the site. The assessment considered the following physio-chemical indicators and numerical criteria (trigger values) from the New South Wales Water Quality and River Flow Objectives (OEH 2015), for uncontrolled streams within the Richmond River Catchment. These values were adopted and are reflected in Schedule 3, Condition L2.4 of Environmental Protection Licence (EPL) 3397.

Total Nitrogen (N) (mg/L)	289 monte d		pH				
			Turbidity (NTU)		Conductivity (ms/cm)		
		Lower	Upper		Lower	Upper	
350	25	85	110	6-50	6.5	8.5	125-2200

Water quality testing undertaken on site indicated that the dissolved oxygen (DO), turbidity and pH indicators were not in accordance with the prescribed trigger values stated above and therefore, a recommendation was made for surface water from the quarry to be captured and treated before discharging from the site.

As a result, a surface water management strategy was prepared and outlined a system of dirty water collection drains that convey surface water runoff to respective sedimentation basins. The sedimentation basins were sized in accordance with Managing Urban Stormwater Soils and Construction: Volume 1 (Blue Book) and Volume 2E (Mines & Quarries). The sedimentation basins have been sized to capture the 90 percentile 5 day rainfall event for their respective catchments.

Groundwater assessments were also conducted and determined that it is unlikely the site will encounter or impact groundwater. Surface water monitoring in accordance with the anticipated requirements of the EPL, will indicate any potential for impact through changes to water quality results.

6.1.2 Actual

A Water Management Plan (WMP) has been prepared to satisfy the requirements of Schedule 3, Conditions 21 of the Development Consent. The WMP provides information required to demonstrate that activities conducted at the quarry will be in accordance with the relevant conditions of Development Consent and EPL 3397.

Quarry Solutions have advised the site has not released any water since the use commenced under the Development Consent. Quarry Solutions have also advised that groundwater has not been intersected during the extraction activities to date. Therefore, environmental performance and comparison of EIS predictions against actuals cannot be undertaken during this reporting period.

6.2 Noise

6.2.1 EIS Prediction

As part of the Environmental Impact Statement (EIS) for the now approved Coraki quarry, a noise assessment (including noise modelling at sensitive receptors) of the potential noise impacts that may occur was conducted. The relevant noise criteria for the assessment of noise impacts was taken from the NSW Industrial Noise Policy which are established by means of a comparison between a 'Rating Background Level ("RBL") plus 5 dB(A)' 'Intrusiveness Criterion' and 'Amenity Criteria' levels, with the lower level being adopted as the basis for deriving project specific noise levels. Noise datalogger measurements determined that RBLs measured at Noise Datalogger Locations 1 and 2 were 30 dB(A) for the 7am to 6pm period. For the early morning 6am to 7am and early evening 6pm to 7pm periods the minimum RBL of 30 dB(A) was adopted for assessment of intrusive noise criteria in accordance with the NSW Industrial Noise Policy. This is consistent with the 7am to 6pm RBL. On this basis, the relevant 'Intrusiveness Criterion' level for assessment of noise from the proposed quarrying activities to be L_{Aeq} 35 dB(A). This criterion was adopted during the EIS approval process and is reflected in Schedule 3, Condition 4, Table 3 of the Development Consent.

Table 3: Noise criteria dB(A)

Receiver	Day	Evening	Night
	dB(A) (L _{Aeq(15 min)})	dB(A) (LAeq(15 min))	dB(A) (L _{Aeq(15 min)})
All privately-owned residences	35	35	35

Note: Receiver locations are shown on the figure in Appendix 3.

6.2.2 Actuals

Since the commencement of activities, noise monitoring has been undertaken on a quarterly basis with results for the reporting period shown in Table 7 below. Results have generally been consistent with those determined and predicted during assessments undertaken for the EIS. During the reporting period, non-compliances occurred in June and September monitoring events which was reported to the department via email submitted by the Quarry Manager. Refer to Drawing No. 1837.DRG.091A Environmental Monitoring Locations. It must be noted, that no noise complaints (made by residents) were received directly by the site during the reporting period.

Monitoring Event	Compliance Status	Action Taken
29 March 2018	Compliant	N/A
13 June 2018	Compliant at residences R1 and R7. Non- compliant at R2, R3, R4 and R6.	Quarry Solutions committed to an interim noise mitigation measure to not operate the main crushing plant prior to 8am when winds from the southwesterly, westerly and northwesterly directions are present until it was determined that the significant noise enhancing conditions evident in the Winter and early Spring period had passed.
27 September 2018	Compliant at residences R1, R2, R4, R6, R7. Non-Compliant at residence R3 occurred at 9:10am under 1.3 to 1.8 metre per second south-westerly wind conditions. The assessed exceedance was 4.5 dB(A) for this measurement, with the main crushing and screening plant being the dominant quarry noise influence. A second noise measurement adjacent residence R3 later in the morning was assessed as compliant with the noise limit.	Additional visual monitoring of weather is now undertaken and if winds are not favourable, works are not conducted. The resident was phoned and advised of the exceedance. No further action was required.
11 December 2018	Compliant	N/A

Table 7 – Noise Monitoring Results

6.2.3 Monitoring Trends

Since the commencement of noise monitoring in December 2016, non-compliances have occurred and actions taken to rectify non-compliances in 2018 are outlined in Table 7 above. Compliance was achieved in the December monitoring event indicating the implemented management measures were effective. Quarterly noise compliance reports are undertaken and are available on the Quarry Solutions website.

6.3 Blasting

6.3.1 EIS Prediction

An assessment of potential vibration impacts was undertaken during the EIS process to identify recommended blast parameters which should be implemented to control vibration within approved and acceptable levels. The closest properties were identified and the distance measured from the proposed extraction limit boundary to the closest residential property.

The assessment concluded, that blasting activities would not introduce any significant risks or impacts to surrounding properties and that blasting is expected to comply with the anticipated licence requirements and ANZECC guidelines which state, that in relation to airblast overpressure, 100% of blasts must be less than 120 dBL and 95% of the blasts must be less than 115 dBL, which reflects the requirements of AS2187.2-2006. With respect to ground vibration, the maximum level is to be 10mm/s and 95% of blast must be less than 5mm/s.

Receiver	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance
	120	10	0%
Any residence on - privately-owned land	115	5	5% of the total number of blasts over a period of 12 months

The recommendations made in the EIS have been adopted and are reflected in Schedule 3, Condition 8, Table 4 of the Development Consent.

6.3.2 Actual

Quarry Solutions have engaged the services of a drill and blast contractor to undertake blasting activities on their behalf. The table below outlines the results from blasts that were undertaken in the reporting period. Blasting results have complied with the criteria outlined in Schedule 3, Condition 8, Table 4.

	Monitor 1		Monitor 2	
Date	Airblast	Ground	Airblast	Ground
	overpressure	vibration	overpressure	vibration
21/03/2018	NT	NT	-	-
7/05/2018	113.1	0.861	-	-
21/05/2018	94.94	0.625	-	-
6/06/2018	95.3	0.783	-	-
20/06/2018	88	0.77	-	-
2/07/2018	88	0.77	-	-
20/07/2018	88	1.04	-	-
7/08/2018	88	0.891	-	-
22/08/2018	NT	NT	-	-
12/09/2018	105.5	0.582	110.2	0.66
9/10/2018	101.9	1.042	-	-
13/11/2018	107.2	0.732	-	-
07/12/2018	104.6	2.08	-	-

Table 8 – 2018 Blasting Results

A blast management plan was approved by the Department of Planning and Environment on 24 January 2018 for the site. Refer to Drawing No. 1837.DRG.092R1 which forms part of the approved Blast Management Plan. 6.3.3

An annual summary of monitoring conducted from November 2016 to December 2018 is provided in Table 9 below. Results show that no exceedances have occurred since the commencement of blasting activities.

Year		No. of blasts measured during the year	Min. value	Max. value	100 percentile value	100 percentile limit	95 percentile value	95 percentile limit
2016	Overpressure	3	<88	115	115	<120	114.4	<115
	Ground Vibration		0.999	2.3	2.3	<10	2.289	<5
2017	Overpressure	13	NT	114	114	<120	112.7	<115
	Ground Vibration		NT	3.799	3.799	<10	3.515	<5
2018	Overpressure	14	88	113.1	113.1	<120	110.15	<115
	Ground Vibration		0.582	1.04	1.04	<10	1.561	<5

Table 9a – Blasting Results Monitor 1

NT – not triggered. 105dB has been assumed for NT

Table 9b –Blasting Results Monitor 2

Year		No. of blasts measured during the year	Min. value	Max. value	100 percentile value	100 percentile limit	95 percentile value	95 percentile limit
2016	Overpressure	3	NT	114	114	<120	113.8	<115
	Ground Vibration		NT	1.024	1.024	<10	1.015	<5
2017	Overpressure	11	NT	113.1	113.1	<120	112.9	<115
	Ground Vibration		NT	2.331	2.331	<10	1.946	<5
2018	Overpressure	1	110.2	110.2	110.2	<120	110.2	<115
	Ground Vibration		0.66	0.66	0.66	<10	0.66	<5

Table 9c –Blasting Results Monitor 3

Year		No. of blasts measured during the year	Min. value	Max. value	100 percentile value	100 percentile limit	95 percentile value	95 percentile limit
2016	Overpressure	3	NT	96.88	96.88	<120	97.5	<115
	Ground Vibration		NT	0.762	0.762	<10	0.81	<5
2017	Overpressure	6	NT	112.6	112.6	<120	112.6	<115
	Ground Vibration		NT	0.914	0.914	<10	0.908	<5
2018	Overpressure	0	-	-	-	-	-	-
	Ground Vibration		-	-	-	-	-	-

6.4 Air Quality

6.4.1 EIS Prediction

Air quality assessments and emission predictions were conducted during the EIS process. To enable assessment of dust concentrations and deposition rates from the proposed quarrying operations, detailed dispersion modelling was conducted using the CALMET / CALPUFF modelling system. The model-predicted dust concentrations and deposition rates were added to ambient concentrations (presented in the EIS) to assess the cumulative dust exposure at surrounding receptors. The modelling and assessment conducted for the EIS outlined performance targets (provided below) and determined that compliance with these targets could be achieved:

- dust deposition of 4 g/m2-month (130 mg/m2-day), when monitored in accordance with Australian Standard AS 3580.10.1 Methods for sampling and analysis of ambient air Determination of particulates Deposited matter Gravimetric method; and
- an aerodynamic diameter of less than 10 µm (PM10) suspended in the atmosphere of 50 µg/m3 over a 24-hour averaging time when monitored in accordance with Australian Standard AS 3580.9.6 Methods for sampling and analysis of ambient air – Determination of suspended particulate matter – PM10 high volume sampler with size selective inlet – Gravimetric method.

The performance targets were adopted and are reflected in Schedule 3, Condition 12, Table 5 of the Development Consent.

ble 5: Air quality criteria			
Pollutant	Averaging Period	Crite	rion
Particulate matter < 10 µm (PM10)	Annual	a,d 30	µg/m³
Particulate matter < 10 µm (PM ₁₀)	24 hour	^b 50 µ	ıg/m³
Total suspended particulates (TSP)	Annual	a,d 90	µg/m³
^c Deposited dust	Annual	^b 2 g/m ² /month	a,d 4 g/m²/month

Notes tor Table 5:

a. Cumulative impact (i.e. increase in concentrations due to the development plus background concentrations due to all other sources).

b. Incremental impact (i.e. incremental increase in concentrations due to the development with zero allowable exceedances of the criteria over the life of the development).

c. Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1.2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.

d. Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, or any other activity agreed to by the Secretary.

e." Reasonable and feasible avoidance and mitigation measures" includes, but is not limited to, the operational requirements in conditions 14 and 15 to develop and implement an air quality management system that ensures operational responses to the risks of exceedance of the criteria.

6.4.2 Actuals

During the reporting period, dust deposition monitoring was undertaken monthly at four (4) locations. Refer to Drawing No. 1837.DRG.091A Environmental Monitoring Locations. The annual dust deposition monitoring results for the reporting period are provided in Table 10.

Analyte	7 Dec – 8	8 Jan – 7	7 Feb – 7	7 Mar – 6	6 Apr – 6	6 May – 4	4 June – 4	4 Jul – 4	4 Aug – 4	4 Sep – 3	3 Oct – 5	5 Nov – 4	4 Dec – 7
	Jan	Feb	Mar	Apr	Мау	June PDG1	Jul	Aug	Sep	Oct	Nov	Dec	Jan 2019
Ash Content	1	0.7	0.9	0.5	1.3	0.4	0.4	0.8	1.3	1.2	1.4	2.5	2.8
Combustible Matter	0.1	0.8	0.1	0.1	0.3	0.1	0.1	0.1	0.01	0.1	0.4	0.5	0.5
Total Insoluble Matter	1.1	1.5	1	0.6	1.3	1.3	0.5	0.9	1.3	1.3	1.8	3.0	3.3
				•	PDG	52 (backgrou	ind)			•	•		
Ash Content	0.5	0.8	1.4	0.8	0.5	0.7	0.5	0.3	1.6	1	2.4	1.4	1.4
Combustible Matter	0.6	4.3	0.5	0.7	0.2	0.9	<0.1	0.2	0.1	0.3	1	0.8	0.5
Total Insoluble Matter	1.1	5.1	1.9	1.5	1.6	1.7	0.5	0.5	1.7	1.3	3.4	2.2	1.8
				•	•	PDG3					•		
Ash Content	1.1	0.8	0.3	1.8	0.6	0.9	0.6	0.1	0.4	0.8	0.7	1.0	1.3
Combustible Matter	1.4	0.7	1	0.8	0.2	1.8	0.2	0.1	0.3	0.4	0.4	0.3	0.7
Total Insoluble Matter	2.5	1.5	1.3	1	1.7	1.8	0.8	0.2	0.7	1.2	1.1	1.3	2
					PDG	4 (backgrou	ind)						
Ash Content	0.3	0.2	0.7	0.2	0.6	0.6	0.6	0.6	0.5	0.2	0.5	1.2	1.1
Combustible Matter	0.4	0.1	1.2	0.2	0.1	0.1	0.3	0.2	0.01	0.05	0.3	0.6	0.6
Total Insoluble Matter	0.7	0.3	0.5	0.4	1.1	1.1	0.9	0.8	0.5	0.2	0.8	1.8	1.7

Table 10 – Annual Dust Deposition Monitoring Results

Units of measure - g/m2/month

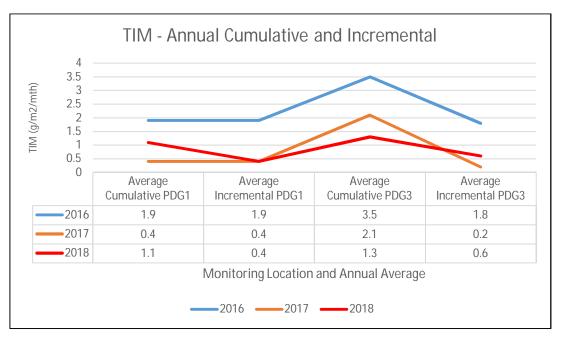
The following is a summary of Total Insoluble Matter (TIM) for monitoring undertaken since 2016.

Monitoring Location Point	No. of times measured during the year	Min. value	Max. value	Average value (cumulative)	Average value (incremental)	Average limit (cumulative)	Average limit (incremental)
PDG1 2016	3	1.2	2.6	1.9	0.4	4	2
PDG1 2017	12	0.2	8.5	1.9	0.4	4	2
PDG1 2018	11	0.5	1.8	1.1	<1	4	2
PDG2 2016 (background)	3	0.9	2	1.5	-	4	2
PDG2 2017 (background)	12	0.3	4.3	1.5	-	4	2
PDG2 2018 (background)	11	0.5	5.1	1.8	-	4	2
PDG3 2016	3	1	5.6	3.5	2.1	4	2
PDG3 2017	12	0.5	4.5	1.8	0.2	4	2
PDG3 2018	11	0.2	2.5	1.3	0.6	4	2
PDG4 2016 (background)	3	0.9	1.9	1.4	-	4	2
PDG4 2017 (background)	8	0.6	4.4	1.6	-	4	2
PDG4 2018 (background)	11	0.5	5.1	1.8	-	4	2

Table 11 – Annual Dust Deposition Summary (Total Insoluble Matter)

TIM - total particulates not soluble in waste





Annual average values were compliant with performance targets as per condition Schedule 3, Condition 12, Table 5 of the Development Consent.

6.5 Biodiversity

6.5.1 EIS Prediction

A preliminary assessment of ecological values through desktop analysis and field survey of the of the quarry area, was conducted during the EIS process. The assessment concluded that the area was unlikely to hold any notable value for flora or fauna species of significance. Recommendations for minimising the impact on ecological values provided in section 7.4.8 of the EIS, were adopted and are reflected in Schedule 3, Condition 33 of the Development Consent.

6.5.2 Actual

No clearing and or rehabilitation works have not been undertaken during the reporting period. As per the requirements of Schedule 3, Condition 33 of the Development Consent, a Biodiversity and Rehabilitation Management Plan has been prepared and submitted to the DP&E on 26 February 2018. Approval of this plan was given on 6 March 2018.

6.6 Cultural Heritage

6.6.1 EIS Prediction

Assessments conducted as part of the EIS process determined the site to be of low archaeological sensitivity and significance. During the assessment, no objects of aboriginal heritage was found however,

As per the requirements of condition Schedule 3, Condition 29 of the Development Consent, an Aboriginal Cultural Heritage Management Plan (ACHMP) must be prepared and implemented. The ACHMP was submitted to the Department on 22 November 2017 and approved on 24 January 2018.

6.6.2 Actual

During the reporting period, no objects of Aboriginal Cultural Heritage were found. As per the requirements of condition Schedule 3, Condition 29 of the Development Consent, an Aboriginal Cultural Heritage Management Plan (ACHMP) has been prepared and implemented. The ACHMP was submitted to the DP&E on 22 November 2017 and approved on 24 January 2018.

6.7 Management Plans

The following documents have been submitted to the Department of Planning and Environment for review and approval: Submitted on 22 November 2017 and approved on 24 January 2018.

- Environmental Management Strategy (condition 1 of Schedule 5);
- Air Quality Management Plan (condition 15 of Schedule 3);
- Transport Management Plan (condition 27 of Schedule 3);
- Blast Management Plan (condition 11 of Schedule 3); and
- Aboriginal Cultural Heritage Management Plan (condition 29 of Schedule 3);

Submitted on 26 February 2018 and approved on 6 March 2018.

- Biodiversity and Rehabilitation Management Plan (condition 33 of Schedule 3);
- Noise Management Plan (condition 6 of Schedule 3); and
- Water Management Plan (condition 21 of Schedule 3).

6.8 Visual Impacts

6.8.1 EIS Prediction

An assessment of views from 6 representative locations around the site was undertaken as part of the EIS process, to determine the potential impact the quarry may have on visual amenity. The quarry is located in a predominately rural setting. The rural landscape has been largely cleared of vegetation. The surrounding rural land utilised primarily for cattle grazing is considered to provide vistas of moderate scenic quality. The Petersons Quarry has been in operation since 1916 and is part of the landscape.

6.8.2 Actual

Schedule 3, Condition 36 of the Development Consent, requires the installation and maintenance of vegetated acoustic bunds specified in Appendix 5 of the Development Consent. Photographs of the acoustic bunds are provided below and were taken during the site audit on the 28 February 2018. The bunds are compliant with the requirements of Appendix 5.

Photograph 1 – Screen 1 area



Photograph 2 – Screen 2 area



Photograph 3 – Screen 3 area



Photograph 4 – Screen 4 area



Photograph 5 – Screen 5 area



Photograph 6 – Screen 6 area



6.9 Hazardous Goods and Storage

6.9.1 EIS Prediction

An assessment of hazardous goods (including its transportation) on the project site was conducted as part of the EIS process. The criteria for hazardous material storage quantities outlined in Table 3 of the SEPP 33 guideline (Department of Planning 2011a) was reviewed to determine which management strategies need to be implemented.

The review concluded that the quarry site is not considered potentially hazardous.

6.9.2 Actual

Fuel storage has been removed from site as refuelling activities are not outsourced to a local provider. Oils are stored in drums or containers appropriate for the item (205I drums) and are stored undercover near the workshop. Storage of hazardous goods has vastly improved since the last reporting period.

6.10.1 EIS Prediction

No predications for waste were provided in the EIS. It was determined that wastes generated by the quarry are unlikely to have a significant detrimental impact on the environment.

6.10.2 Actual

Schedule 3, Condition 37 of the Development Consent states:

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;
- 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.

Waste streams and management of them is as follows:

- General waste office bins, paper, food scraps, food wrappings, bottles, cans etc. These are placed in waste receptacles and serviced by Richmond Valley Council waste collection service.
- Sewage toilets, grey water. A septic tank is used for the management of sewage waste and is collected by a licensed contractor (Ballina Pumping) as required.
- Scrap metal is stored in skip bins and collected by a licensed contractor (Ballina Pumping) and recycled where
 possible.
- Waste oil is stored in 1000l pods and collected by a licensed contractor (Summer Land Waste).

It must be noted that minimal waste is generated on site and no waste is generated from extraction activities. Waste management strategies will be reviewed during the Annual Review process in February each year.

6.11 Environmental Performance Summary

As per the requirements of the Departments annual review guideline, a summary of Environmental performance during the reporting period is provided in Table 11 below.

Attachment 1 outlines the compliance status of each condition of the approval applicable to the Development Consent.

Table 12 – Environmental Performance Summary
--

Aspect	Development consent (DC) /EIS prediction	Performance during the reporting period (2018)	Trend/key management implications	Management measures taken during reporting period (2018)
Water	DC – condition 19, 20, 21 EIS – section 7.8.4, 7.9	Water was not released during the reporting period. Groundwater was not intersected during the reporting period.	N/A	N/A
Noise	DC – Schedule 3, condition 4. Appendix 4. EIS – 7.5.11	Exceedance of the prescribed noise limit occurred in the June and September monitoring events. No complaints were received by the Site during the reporting period.	Monitoring data has demonstrated no impact to nearby residents during this reporting period and or last reporting period.	Additional weather monitoring will be conducted when operating the excavator in the same area when the noise exceedance occurred. If wind conditions are not favourable, then works will not commence.
Blasting	DC – Schedule 3, condition 8, 9, 10, 11. EIS section 7.7.1	Compliant. On average, 1 blast is conducted per month. No complaints have been received during the reporting period.	Blasting activities did not result in any significant risks or impacts to nearby residents during this reporting period and or last reporting period.	 Implementation of Blast Management Plan Pre-start meetings held and on a blast day, safety procedures and firing procedures are detailed.
Air Quality	DC – Schedule 3, condition 12, 13, 15, 16. Appendix 5. EIS – 7.6.7	Compliant Monthly dust monitoring was undertaken and no exceedances were recorded.	Annual performance targets are as follows: Cumulative impact: 4.0 g/m2/month (annual average) Incremental impact: 2.0 g/m2/month (annual average) The site's incremental and cumulative mean has risen at varying times since the last reporting period. Increases have been minor and impacts to nearby residents would be negligible.	 Monthly dust monitoring was undertaken; Maintenance of vegetated acoustic bunds; Monitoring of on-site weather station; Increase usage of water cart during windy conditions; Dust suppression (polo citrus) used on crushing plant; Entry and exit road have been sealed.

Aspect	Development consent (DC)	Performance during the reporting	Trend/key management implications	Management measures taken during reporting
Biodiversity	/EIS prediction DC – Schedule 3, condition 31, 32, 33 EIS – 7.4.8	period (2018)No clearing of vegetation or commencement of rehabilitation works was undertaken during the reporting period.	Nil as no rehabilitation works were undertaken during this reporting period and or last reporting period.	period (2018) Remnant vegetation areas have been fenced and or demarcated for protection.
Cultural Heritage	DC - Schedule 3, condition 29, 30 EIS – section 7.2.4	No objects of Aboriginal Cultural Heritage were found during the reporting period.	Nil as no objects of Aboriginal Cultural Heritage were found during the reporting period.	Management strategies area included in site induction, so site personnel are trained in these matters.
Visual Impacts	DC – Schedule 3, condition 36. Appendix 5. EIS – section 7.10	Compliant. A vegetated acoustic bund has been installed in line with Appendix 5 of the DC.	Nil. Bunds are well vegetated and established.	 Regular visual inspections Weeding as required Watering of vegetation as required.
Hazardous Goods and Storage	DC – Schedule 3, condition 38, 39. EIS – section 7.14	Compliant Fuel tank has been removed and is now being carried out by external contractor as the business decided against installing a new fuel tank. Oils are stored in drums or containers appropriate for the item (205I drums, mobile tank) and are stored in general accordance with relevant Australian Standards.	Storage of fuel has not resulted in any significant risks or impacts to the environment.	 Area where fuel and oil were previously stored has been tidied and ground stained with oil has been cleaned-up.
Waste	DC – Schedule 3, condition 37. EIS – section 7.14	Compliant The site is serviced by Richmond Waste. All waste receptacles comply with the relevant Australian Standards in accordance with the contract with Richmond Waste.	Nil.	Visual inspections of waste storage areas and retention of records of waste servicing by Richmond Waste.

7 Rehabilitation

No rehabilitation works were undertaken on site during the reporting period, as activities are still being conducted in extractive areas.

Quarry Area Type		Previous Reporting Period (actual) Year X-1(ha)	This Reporting Period (actual) Year X (ha)	Next Reporting Period (forecast) Year X +1(ha)
Α.	Total Quarry footprint	32.3ha	32.3ha	32.3ha
В.	Total active disturbance	32.3ha	32.3ha	32.3ha
C.	Land being prepared for rehabilitation	Nil	Nil	Nil
D.	Land under active rehabilitation	Nil	Nil	Nil
Ε.	Completed rehabilitation	Nil	Nil	Nil

Table 13 – Rehabilitation Status

8 Community

Quarry Solutions contribute \$5000 per quarter to community organisations, groups or individuals in the Coraki and District with grants of \$100 to \$5000 available. Some projects completed in the reporting period is as follows:

- Computer upgrades for the Coraki Historical society
- Coraki Youth Hall committee
- Coraki district garden club
- · Coraki Hockey Club junior hockey equipment
- Coraki Healthy Towns Committee.
- · Coraki and District Art Show major sponsor & prize presented by Quarry Solutions,
- Coraki Christmas pageant; and
- Number of local school initiatives and sporting programs.

In addition to the above initiatives, Quarry Solutions employ local residents and engage local business for catering / venue hire for any meeting or social gatherings.

8.1 Complaints

No complaints have been received by the quarry in the reporting period.

9 Actions for next reporting period

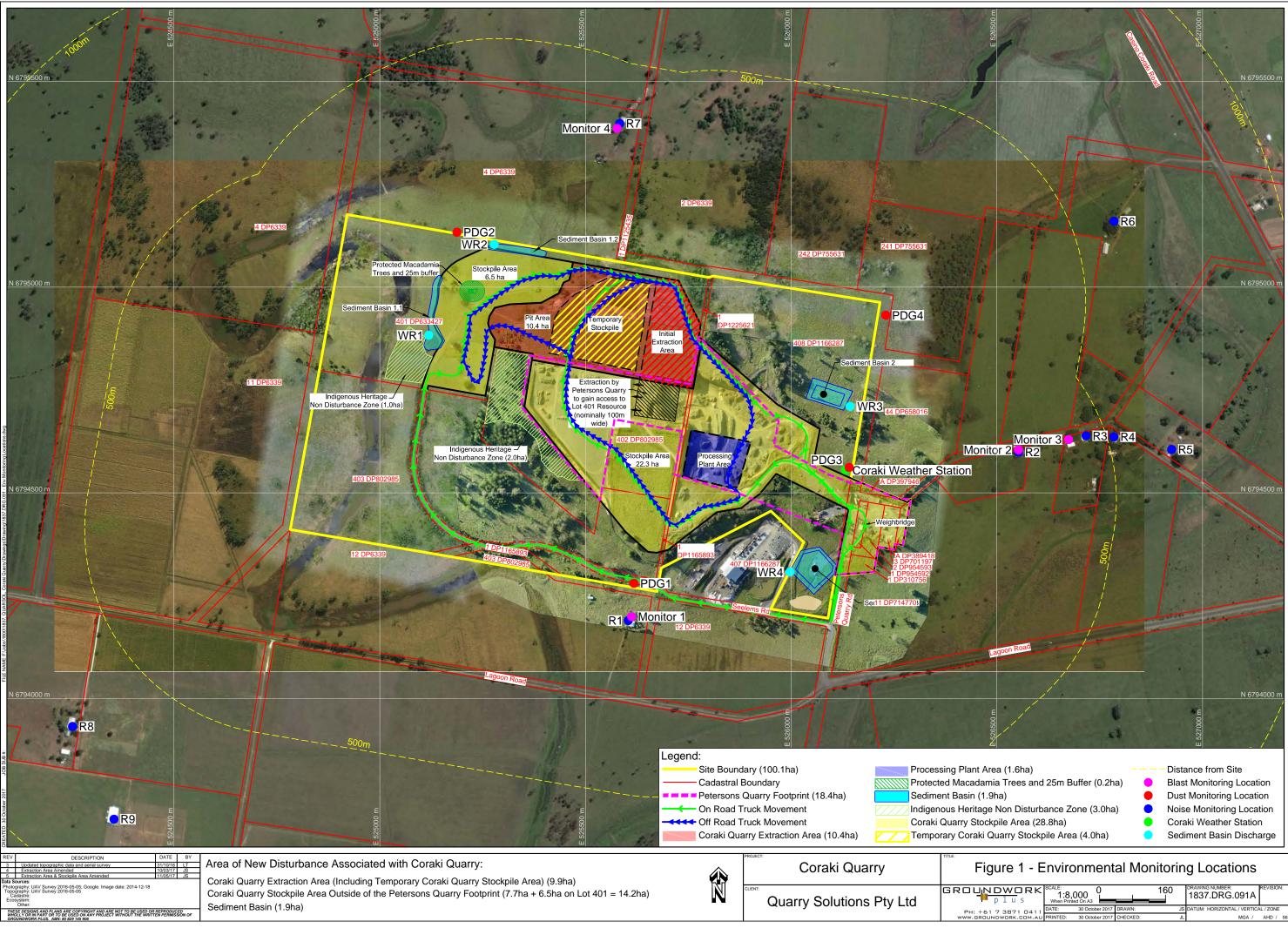
Proposed actions to be undertaken in the 2019 reporting period include the following:

• Review strategies, plans and programs

drawi ngs



N 6720000 m				N 6720000 m
BILLING BILLIN	E 51000 m	E 52000 m E 53000 m	E 540000 m E 550000 m	Е 00000 9000 m ш
Data Sources:		Coraki Quarry	Site Location	ı Plan
Photography: Google. Image date: 2013-04-10 Topography: Coogleastic: Coogleastic: Codestic: Conter: Other: Other: WHOLLY OR IN PARY OR TO BE USED OR REPRODUCED WHOLLY OR IN PARY OR TO BE USED ON ANY PROJECT WITHOUT THE WRITTEN PERMISSION OF GROUNDWORK FLUS. ARE: BEST 145 966	te Boundary ajor Road	Quarry Solutions Pty Ltd	GROUNDWORK.COM.AU PIUS PH: +61 7 3871 0411 WWW.BROUNDWORK.COM.AU PRINTED: 10 September 2015 CHECKED	6km DRAWING NUMBER: 1837.DRG.007 REVISION: 1 LT DATUM: HORIZONTAL/VERTICAL/ZONE JL MGA / / 56



DWORK	SCALE: 1:8,0 When Printed				DRAWING NUMBER: 1837.DRG.091A	REVISION:
7 3871 0411	DATE:	30 October 2017	DRAWN:	JS	DATUM: HORIZONTAL / VERTICA	AL / ZONE
DWORK.COM.AU	PRINTED:	30 October 2017	CHECKED:	JL	MGA /	AHD / 5

attachments

Attachment 1

Audit Checklist

GROUNDWORK

Coraki Audit – February 2019

Condition Number	Condition	Compliant C/NC/NT	Comments - evidence details
	- Administrative Conditions		
Obligation	to minimise harm	1	
1	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.	C	Sighted Environmental Management Strategy and associated management plans. Quarry Manager (Brett Conlan) conducts daily visual inspections of site to assess, dust, spillages, sediment on roads leaving site. This is not documented however in the event there is an issue, an incident notification form would be prepared and the Department would be notified. A heavy water dynamic (new product introduced in the reporting period) is added to each load of water in the cart. This helps seal the road and reduces the amount of dust coming off the road. Pre-starts cover traffic management and production requirements. Sighted daily pre-start sheet. Visual inspections are conducted after rain events re- erosion and runoff. Site induction – daily pre-start sign on and site induction undertaken for contractors and new employees.
Tomesof			
Terms of C 2	The Applicant must carry out the development:	NC	The crusher and screener are located
2	 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. 		outside of the Processing Plant area as marked in Appendix 2 of the DC. The crusher and screener are located in the



			Coraki extraction area. An application to modify the development consent to reflect this, was submitted to the Department on 11 March 2019.
3	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.	Noted	
4	 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. 	Noted.	
Lapsing of			
5	If the development has not been physically commenced within 5 years of the date of this consent, then this development consent must lapse.	Noted. Site i	s operational
Limits on C			
6	The Applicant may carry out quarrying operations for the development until 30 June 2023.	Noted	
7	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.	C	Markers are set up around the permitted extraction areas, so the quarry manager and site personnel know not to extract beyond these. Sighted markers (red and white pegs) Ground survey was conducted mid 2018 to verify location of pegs and extraction limit perimeters. GPS coordinates are stored in the trimble rover. Levels of the floor are measured (rover device is used on a weekly basis i.e before blasts, production checks when in the area).
8	The Applicant must not extract or process more than 1 million tonnes of quarry products in any calendar year.	С	Sighted report produced via the 'iweigh data system' showing production amount of 995,438 tonne. Monthly



			stocktakes are conducted on primary raw feed (blasted rock) ready to be processed. Each truck that goes over the weighbridge is identified as either a C (for Coraki) or P (for Peterson). This enables the quarry manager to monitor compliance with this requirement and the development approval for Petersons which permits 320,000t to be extracted.
	n of emergencies, incidents and exceptions		
9	 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). 	C	All trucks leaving site must exit via the weigh bridge. Driver has a toggle that they scan on the weigh bridge. A load docket is printed out for the driver. The weigh bridge system is set for 31 trucks per hour. A docket will not be printed for the driver if this is exceeded and therefore, the driver must wait until the next hour rolls over. Drivers cannot leave the site without a docket.
Structural A	Adequacy		
10	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.	NT	No new building, structures or alterations have occurred on site since last annual review.
Demolition			
11	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.	NT	No demo works have been done.
Protection	of Public Infrastructure		
12	 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. 		orks or the like have been requested to be y 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.		
	of Plant and Equipment	•	
13	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.	C	Civil rent business of the C group and they manage electronically the servicing reminders etc for plant and equipment e.g. yellow kit (loaders, water carts) electronically managed through fleet maintenance and emails are sent to the quarry manager stating a service is due etc. fixed plant (crushers, conveyor belts) fitters check daily maintenance schedule 'I auditor' is used. Sighted report. Pre-starts and plant equipment conducted daily. This is recorded and is stored in p:drive (sighted).
Production			
14	 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). 	С	Sighted production data report dated 1 Jan–31 Dec 2018.
Identification	on of Approved Extraction Limits	•	
15	 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. 	C	Sighted survey plans prepared by Kennedy Surveying dated 26 September 2017 and email submission to the Department dated 9 October 2017
16	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.	С	Sighted markers around extraction pit area. It must be noted that no works have been conducted in this area to date.
	ons to Council		
17	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.	С	Sighted contribution receipt to Richmond valley council dated 7 May 2018

	refer the matter to the Secretary for re-	on any aspect of the maintenance contributions, either party may solution.		
Crown R 18		the closure of the Crown road on the eastern boundary of Lot 401 evelopment within the area of the road.	NT	Completed in last years reporting period and included in annual review.
Complia	ince			
19		ployees, contractors and sub-contractors are aware of, and sent relevant to their respective activities.	C	Site office and meeting room have a poster displayed which summarises the operating conditions for the site. All site personnel are advised to familiarise themselves with these. Sighted site induction Q 09-B1-01 Site Induction and Quarry Driver Induction Q 09-B1-09
Schedul	le 3 – Environmental Performance Cond	itions		
Noise				
1	The Applicant must comply with the op Table 1: Operating Hours Activity	Permissible Hours	NT	Table 2 below are the times that the site operates to.
	Quarrying operations including truck loading and dispatch	7 am to 6 pm Monday to Friday; 8 am to 1 pm Saturday; and 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.		
2	The Applicent may operate under the	extended energting hours get out in Table 2 only ofter obtaining	С	Sighted signed concents from
2		extended operating hours set out in Table 2 only after obtaining 1 to R9 (as shown on the plan in Appendix 3), and after advising f the terms of these agreements.		Sighted signed consents from landowners. These are the hours that the site is operating under.



	Table 2: Extended Operating Hours			53		
	Activity	P	ermissible Hours			
	Quarrying operations	6 am to 7 pm	Monday to Friday;			
	including truck loading and	6 am to 7 pm	Saturday; and			
	dispatch	At no time on	Sundays or public hol	idays.		
	Maintenance activities	May be condu	ucted at any time.			
3	The following activities may be car (a) delivery or dispatch of mat (b) emergency work to avoid t In such circumstances, the Applica the activities, or as soon as is prac	erials as requested b he loss of lives, prop nt must notify the Sec	y Police or other auth erty and/or to prevent	environmental harm.	NT	None of these activities have occurred during the reporting period.
	oact Assessment Criteria		the development de			
4	The Applicant must ensure that the Table 3 at any residence on privat <i>Table 3: Noise criteria dB(A)</i>	ely-owned land.			NC	A noise exceedance occurred during the June and September monitoring event. Notifications were made to the Department by email.
	Receiver	Day dB(A) (LAeq(15 min))	Evening dB(A) (L _{Aeq(15 min)})	Night dB(A) (L _{Aeq(15 min)})		
	All privately-owned residences	35	35	35		
	Note: Receiver locations are shown on the Noise generated by the development and exemptions (including certain Appendix 4 sets out the meteorologic for evaluating compliance with the However, the noise criteria in Table landowner to exceed the noise criteria writing of the terms of this agreement	ent is to be measured meteorological condit gical conditions under se criteria. e 3 do not apply if the eria, and the Applicar	ions) of the NSW Ind r which these criteria e Applicant has an ag	ustrial Noise Policy. apply and the requirements reement with the relevant	5	



Operating	Conditions		
5	 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 satisfaction of the Secretary. 	C	Sighted Environmental Management Strategy dated Nov. 2017. Sighted Noise Management Plan dated 23 Feb 2018.
Noise Man 6	 agement 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: compliance with the noise criteria in this consent; best practice management is being employed to minimise operational noise from the development; and 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. 	C	Sighted Noise Management Plan dated 23 Feb 2018. Sighted IMS – Quarry Safety and Environmental Checklist sighted. This is filled in on quarterly basis. Letter of approval issued by the Department of Planning and Environment, dated 6/3/18 is available on the quarry solutions website.
Noise Com 7	Impliance 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; 	C	Has been completed. Is available on the website.

Blasting	(e) provid the act Within one mo Secretary, the recommendation	e details of any tion taken in re nth of receivin Applicant mus ons contained	y complaints received esponse to those com g the Noise Complian st submit a copy of the in the report.	plaints. ice Review report, or as	erated by the developments otherwise agreed by the y, with a response to any	ne y	2	Sighted Blast Management Plan dated
	exceedance of				,			Nov 2017.
	Table 4: Blastin	g criteria	Airblast overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable exceedance			Sighted IMS – Quarry Safety and Environmental Checklist sighted. This is filled in on quarterly basis.
			120	10	0%			Letter of approval issued by the
		sidence on – owned land	115	5	5% of the total number of blasts over a period of 12 months			Department of Planning and Environment, dated 6/3/18 is available on the quarry solutions website.
					nent with the relevant ow ent in writing of the terms			
Blasting	Frequency							
9	of the Secretar apply to blasts Note: For the p	y or unless an required to er ourposes of this	additional blast is rec nsure the safety of wo s condition a blast refe	uired following a blast rkers on site or other p ers to a single blast eve	nt, which may involve a r	oes not	C	Sighted blast reports which confirm no more than 2 blasts per calendar month have been carried out.
	of individual bl	asts fired in qu	lick succession in a d	iscrete area of the quar	rry.			Blast reports are uploaded onto the quarry solution website.
Operatin	g Conditions							
10	During blasting (a) implen - protec - protec blastin	nent best prac t the safety of t public or priv g operations;		,	g blasting operations; area from damage fron		C	Sighted Blast Management Plan dated Nov 2017. Sighted IMS – Quarry Safety and Environmental Checklist sighted. This is filled in on quarterly basis.
	(b) operat	e a suitable sy		cal community to get u	p-to-date information on	the		Letter of approval issued by the Department of Planning and

	 (c) obtain agreement with any print to manage flyrock; and (d) carry out regular monitoring to conditions of this consent, to the conditions of this consent. 	determine whe	ther the developmen				Environment, dated 6/3/18 is available on the quarry solutions website.
Blast Manag	gement Plan						
11	The Applicant must prepare a Blast M Secretary. This plan must: (a) be submitted to the Secretary for a the commencement of blasting, which (b) describe the measures that would operating conditions of this consent; (c) include measures to manage flyroo (d) include a monitoring program for e in this consent; (e) include community notification pro (f) include a protocol for investigating The Applicant must implement the app Secretary.	approval within ever is earlier, be implemente ck; valuating and r cedures for the and responding	6 months of the date unless otherwise agr d to ensure complian eporting on complian blasting schedule; an to complaints.	of this consent, or p eed by the Secretar ce with the blast cri ce with the blasting nd	orior to ry; teria and criteria	C	Sighted Blast Management Plan dated Nov 2017. Sighted IMS – Quarry Safety and Environmental Checklist sighted. This is filled in on quarterly basis. Letter of approval issued by the Department of Planning and Environment, dated 6/3/18 is available on the quarry solutions website.
12	The Applicant must ensure that all rea employed so that particulate matter en of the criteria in Table 5 at any resider Table 5: Air quality criteria	nissions genera	ted by the developm			С	Sighted dust monitoring reports. These are available on the quarry solutions website.
	Pollutant	Averaging Period	Crite	rion			
	Particulate matter < 10 µm (PM ₁₀)	Annual	^{a,d} 30 i	Jg/m ³			
	Particulate matter < 10 µm (PM10)	24 hour	^b 50 µ	g/m ³			
	Total suspended particulates (TSP)	Annual	a,d 90	Jg/m ³			
	^c Deposited dust	Annual	^b 2 g/m ² /month	a,d 4 g/m²/month			
	Notes tor Table 5: a. Cumulative impact (ie increase concentrations due to all other source b. Incremental impact (ie incrementa allowable exceedances of the criteria	s). al increase in d	concentrations due t		-		

	 c. Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method. d. Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, or any other activity agreed to by the Secretary. e." Reasonable and feasible avoidance and mitigation measures" includes, but is not limited to, the operational requirements in conditions 14 and 15 to develop and implement an air quality management system that ensures operational responses to the risks of exceedance of the criteria. 		
Quarry-owr	ned Land		
13	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 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.	NT	There are no residences on quarry- owned land (including land owned by another quarry owner)
Operating 0	Conditions		
14	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.	C	Purpose built 770 watercart from civil rent – 20,000lts Hi foam dust suppressant system fitted to main crushing plant Established new traffic management plan (haul road) for load and haul trucks to minimise movements within the quarry Introduced heavy water dynamic dosing to the watercart, this works as a dust suppressant, water extender, compaction aid and veneering agent all in one, New item has been included this reporting period. Heavy water dynamics has been introduced to the water carts. Use same info from last year.
Air Quality	Management Plan		
15	The Applicant must prepare an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must:	С	Sighted Air Quality Management Plan dated 16 Nov 2017.



	 (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, unless otherwise agreed by the Secretary; (b) describe the measures that would be implemented to ensure: compliance with the relevant conditions of this consent; best practice management is being employed; and the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events; (c) describe the proposed air quality management system; and is capable of evaluating the performance of the development; includes a protocol for determining any exceedances of the relevant conditions of consent; effectively supports the air quality management system; and evaluates and reports on the adequacy of the air quality management system. 		Sighted IMS – Quarry Safety and Environmental Checklist sighted. This is filled in on quarterly basis. Letter of approval issued by the Department of Planning and Environment, dated 241/18 is available on the quarry solutions website.
	ical Monitoring		
16	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.	С	Weather station is checked daily.
Greenhous	e Gas Emissions		
17	The Applicant must implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the development.	С	An emission control system is fitted to all loaders Plant and equipment are maintained in accordance with manufactures
			specifications Fleet management system – Quarry Manager receives a notification if a vehicle or plant is left idling
Soil and Wa			specifications Fleet management system – Quarry Manager receives a notification if a
Water Supp	bly		specifications Fleet management system – Quarry Manager receives a notification if a vehicle or plant is left idling
Water Supp 18	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.	C	specifications Fleet management system – Quarry Manager receives a notification if a
Water Supp	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.	C	specifications Fleet management system – Quarry Manager receives a notification if a vehicle or plant is left idling



Groundwa	ter		
20	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.	NT	No groundwater has been intersected.
Water Mar	agement Plan		
21	 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 volume of water deficit and/or surplus for dry, average and wet years, considering all planned water management infrastructure; sources and security of water supply, including on-site water storages; water use and management on site; any off-site water transfers or discharges including discharge volumes and frequency; reporting procedures; and measures that would be implemented to minimise clean water use on site; and (ii) Surface Water Management Plan, that includes: detailed baseline data on surface water flows and quality in water bodies that could potentially be affected by the development; a detailed description of the surface water management system on site including the: c clean water diversion system; e erosion and sediment controls; o dirty water management system; and water storages; provision of a 40-metre buffer zone between watercourses and quarrying operations; and a program to monitor and report on: o any surface water discharges; the effectiveness of the water management system; and surface water flows and quality in local watercourses. 	С	Sighted Water Management Plan dated Feb 2018. Sighted IMS – Quarry Safety and Environmental Checklist sighted. This is filled in on quarterly basis. Letter of approval issued by the Department of Planning and Environment, dated 6/3/18 is available on the quarry solutions website. No discharging occurs. No monitoring is conducted. Water is re-used for dust suppression and procession (crushers)



Tuese est est			
Transport	Poutoo		
Transport I 22	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.	C	Trucks are fitted with GPS trackers. Site induction outlines traffic routes and trucks fitted with GPS trackers.
Road Upgr			
23	 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): (a) 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 approximately 200 metres west of the entrance to the industrial facility at 30 Seelems Road; and (b) 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. 	NT	Seelems road is yet to be upgraded. It is not being utilised. Sealing of intersections was completed in Sep 2016.
24	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 works for roads for which the Council is the relevant roads authority.	NT	Works have been completed.
Monitoring	of Product Transport		
25	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.	С	Weigh bridge system iweigh is used and retains all data.
Operating	Conditions	• 	
26	 The Applicant must: (a) ensure that all laden trucks entering or exiting the site have their loads covered; and (b) ensure that all laden trucks exiting the site are cleaned of materials that may fall on the road, before leaving the site. (c) 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. 	C	Chain of responsibility procedure has been toolboxed (Dec 2018) with all drivers to remind them of the key points such as loading and unloading practices, speed limits, traffic routes etc.



Transport	Management Plan		
27	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; (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.	C	Sighted Transport Management Plan dated Oct 2017. Sighted IMS – Quarry Safety and Environmental Checklist sighted. This is filled in on quarterly basis. Letter of approval issued by the Department of Planning and Environment, dated 24/1/18 is available on the quarry solutions website.
Independe	nt Traffic Audit		
28	 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: (a) have the site verification component of the audit undertaken without prior notice to the Applicant; (b) assess the impact of the development on the performance of the road network; (c) investigate any incidents involving heavy vehicles associated with the development, including reviewing any community complaints; (d) assess the effectiveness of the Drivers Code of Conduct; and (e) 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. 	C	Audit was conducted by TTM on 22 March 2017. Report was submitted to the Department on 12 April 2017. The report is available on quarry solutions website. The next audit is not due till July 2020.
Aboriginal			
	Cultural Heritage Management Plan		
29	The Applicant must prepare an Aboriginal Cultural Heritage Management Plan for the development to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with OEH and the Aboriginal community, and be submitted to the	С	Sighted the Aboriginal Cultural Heritage Management Plan.



	 (b) include: a detailed descript outside the quarry Zones (shown in A a description of the skeletal remains a protocol for the on conservation and r 	r to the commencement of operations; and on of the measures that would be implemented to protect Aboriginal sites disturbance area including the two Indigenous Heritage Non-disturbance ppendix 2); e measures that would be implemented if any new Aboriginal objects or re discovered during quarrying operations; and going consultation and involvement of the Aboriginal community in the nanagement of Aboriginal cultural heritage on the site.		The ACHMP was submitted to the Department on 22 November 2017 and approved on 24 Jan 2018.
30	development, the Applican (a) all work in the immedia (b) a 10 m buffer area arou- like; and (c) the OEH is contacted ir Work in the vicinity of the A provisions of Part 6 of the	e vicinity of the Aboriginal item or object ceases immediately; nd the item or object is cordoned off with high visibility flagging tape, or the	NT	No finds have occurred.
31			d	Sighted southern end of quarry (visual bunding) above and below Seelems Road, however no formalised rehab works have been conducted.
	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		
Progressiv	ve Rehabilitation			
32		tate the lands associated with the development progressively, that is, as soo ollowing disturbance. All reasonable and feasible measures must be taken t		Sighted southern end of quarry (visual bunding) above and below Seelems

	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.		Road, however no formalised rehab works have been conducted.
Biodiversit	y and Rehabilitation Management Plan		
33	 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: 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 objectives, and the progressive rehabilitation obligations in this consent; (f) include a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria; (g) 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 (h) include details of who would be implemented to mitigate these risks; and (h) include a program to monitor the approved management plan as approved from time to time by the Secretary. 	C	Sighted the Biodiversity and Rehabilitation Management Plan (BRMP). The BRMP was submitted to the Department on 26 February 2018 and approved on 6 March 2018.
	on and Rehabilitation Bond		
34	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	NC	Sighted letter issued by the Department of Planning and Environment, dated 25 June 2018 approving bond calculation. The bond was lodged after the 5 th October 2018.

	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.		
35	 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. 	С	NGH Environmental conducted the Environmental Audit in April 2018. The findings of the audit were considered in determining the sum of the bond as mentioned above.
Visual Imp	acts		
36	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.	С	Visual screenings have been sighted and photos taken.
Waste	·		
37	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; (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.	С	Richmond Waste collect skip bins and on-site sewage.
Liquid Stor	rage		
38	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.	C	Oil storage container is located at the workshop. Fuel (for plant and equipment) is no longer stored on site. A third-party provider re-fuels at the end of each day.
Dangerous			
39	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.	С	
40	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	NT	Transportation of hazardous materials does not occur.



		1	
	to transporting hazardous materials above the threshold contained in State Environmental Planning Policy 33 Hazardous and Offensive Development.		
Bushfire		<u> </u>	
41	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.	С	Water cart is available for use Fire extinguishers are located around site office and on each plant.
Schedule 4	4 – Additional Procedures		
Notification	n of Landowners		
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).	C	Notification of landowners was undertaken for noise noncompliances.
Independe	nt Review	1	
2	If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land.	NT	No requests have been made.
3	 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. 	NT	As above
4	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.	NT	As above.

GROU					۶K
	р	1	u	S	

If the independent review determines that the development is not complying with the relevant impact assessment criteria in Schedule 3, then the Applicant must: (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.		
Schedule 5 – Environmental Management, Reporting and Auditing		
Environmental Management Strategy		
1 If the Secretary requires; the Applicant must prepare an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must: (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 the environmental management of the development; (f) describe the procedures that would be implemented to: 	C	Sighted the Environmental Management Strategy. The EMS was submitted to the Department on 22 November 2017 and approved on 24 Jan 2018.
Evidence of Consultation		

1A	 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; (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. 	С	Sighted approval letter issued by the Department. This is available on quarry solutions website.
Manageme	ent Plan Requirements		
2	The Applicant must ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include: (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 measures (see (c) above); (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. 	C	Sighted approval letter issued by the Department. This is available on quarry solutions website.
Revision o	f strategies, plans and programs		
3	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	NC	No revision of strategies, plans and programs was been conducted in 2018.

	(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.		A review will be conducted by end of June 2019.
Updating	and staging of strategies, plans and programs		
4	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,	Noted	
	plan or program without undertaking consultation with all parties nominated under the applicable condition in this consent.		
Adaptive	Management		
5	 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. 	C	Monthly monitoring is undertaken and results assessed to determine compliance.
Communi	ty Consultative Committee		
6	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).	NT	No request has been made.



Reporting			
Incident F	Reporting		
7	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.	С	The Department was notified via email of the noise exceedances
Regular F	Reporting		
8	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.	С	Information can be found on quarry solutions website.
Annual R			
9	 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; (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. 	Noted. Not due as y	/et.
Independ	ent Environmental Audit		
10	 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: (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); 	С	NGH Environmental conducted the Environmental Audit on 6 th March 2018.

	 (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; (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. 		
11	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.	С	Audit report was submitted to the Department in May 2018.
Access to	Information		
12	 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 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. 	C	Information can be found on quarry solutions website.



DGR Production Data





0

-

RETURN FOR EXTRACTIVE MATERIALS: YEAR ENDED 30 JUNE 2018

Quote RIMS ID in all correspondence

Quarry Id: Rims ID:	Inquiries please telephone: 2
Operators Name: Quarry Solutions Address: Petersons Quarry Road, Coraki	(02) 4063 6713 Completed or Nil Returns Email –
Email: murray.payne@quarrysolutions.com.au	mineral.royalty@planning.nsw.gov.au Postal Address (see address below)
Quarry Name: Coraki Quarry Quarry Address: Petersons Quarry Road, Coraki	Please amend name, postal address and location of mine or quarry if incorrect or incomplete
	2

The return should be completed and forwarded to the MANAGER ASSESSMENT COORDINATION, RESOURCE OPERATIONS, NSW PLANNING & ENVIRONMENT, PO BOX 344 HUNTER REGION MAIL CENTRE NSW 2310 on or before 31 October 2018. If completion of the return is unavoidably delayed, an application for extension of time should be requested before the due date. If no work was done during the year, a NIL return must be forwarded.

The return should relate to the **above quarrying establishment**, and should cover the operations of quarrying and treatment (such as crushing, screening, washing etc.) carried out at or near the quarry. A return is required even if the operations are solely of a developmental nature, and whether the area being worked is held under a mining title or otherwise.

Director Titles Assessments

Please complete all of the following information to assist in identifying the location of the Quarry

Typical Geology <u>Basalt</u>				
Nearest Town to QuarryCo	raki			
	ond Valley Council			
Deposited Plan and Lot Number/s of Quarry Lot 401 DP633427 & Lot 1 DP1225621				
Email Address of Operator				
Name of Owner or Licensee	Quarry Solutions			
Postal Address of Licensee	PO Box 6009 Tweed Heads South NSW 2486			
Licence/Lease Number/s (if any) From Mineral Resources NSW (Industry & Investment NSW)				
If any output was obtained from land NOT held under licence from the above Departments, state the Name/s and Address/es of the land				
have been left where fi • SIGNATURE of PROPR				
PERSON to be contacted if queries arise regarding this return				
NAME (Block letters)	Nurray Payne Telephone 0427 978 964			

SALES During 2017-2018

Production information may be published in aggregated form for statistical reporting. However, production data for individual operations is kept strictly confidential.

	Product	Description			Quantity Tonnes
	<u>Virgin Materials</u> Crushed Coarse Aggregates				
	Over 75mm	Di Bak Son		atection	309,391
	Over 30mm to 75mm	Drainage Rock - Scour Capping layer - W Sealing, Concrete e	F	Back	27,236
	5mm to 30mm	S . D . J .	5	·	46,475
	Under 5mm	searing, concrete e		and a	F-, 13
	Natural Sand				
	Manufactured Sand	Man Sand - General	e (-	to Dust	11,318
	Prepared Road Base & Sub Base	Man Sand - General MB, DGB, DGS, S	Scla	<u>Ö</u>	191,202.
	Other Unprocessed Materials			5	
	Recycled Materials Crushed Coarse Aggregates				
	Over 75mm				
	Over 30mm to 75mm				
	5mm to 30mm	-			
	Under 5mm	· · · · · · · · · · · · · · · · · · ·			
	Natural Sand				
	Manufactured Sand				
	Prepared Road Base & Sub Base				
	Other Unprocessed Materials				
•	River Gravel				
	Over 30mm				
	5mm to 30mm				
	Under 5mm				
•	Construction Sand	Excluding Industrial			
•	Industrial Sand				
	Foundry, Moulding				
	Glass				
	Other (Specify)				
•	Dimension Stone	Building, Ornamental, Monumental			
	Quarried in Blocks				
	Quarried in Slabs				
•	Decorative Aggregate	Including Terrazzo			
•	Loam	Soil for Topdressing, Garden soil, Horticultural purposes)			
•	TOTAL SITE PRODUCTION	585,622			
•	Gross Value (\$) of all Sales	\$ 11,712,440			
•	Type of Material				
•	Number of Full-Time Equivalent (FTE) Employees	Employees:		Contractors)

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

Attachment 2

Evidence of Conservation and Rehabilitation Bond



Business Loan Centre NSW 1 King Street Concord West NSW 2138 General Enquiries Telephone: 0287673310 Facsimile: 0287673239 To enquire about a demand on a Guarantee: (02) 8767 3310

BANKER'S UNDERTAKING

To: NSW Department of Planning and Environment ABN 38 755 709 681 of Level 22, 320 Pitt Street, Sydney NSW 2000 Australia (the "Favouree")

At the request of: See Civil Pty Ltd ACN 115 963 427 on behalf of Quarry Solutions Pty Ltd ABN 13 133 700 848 (the "Customer")

and in consideration of the Favouree accepting this Undertaking for Rehabilitation/Biodiversity offsets and conservation work relating to Project SSD7036, WESTPAC BANKING CORPORATION (the "Bank") unconditionally undertakes to pay on demand any amount or amounts which may from time to time be demanded in writing purporting to be signed by or on behalf of the Favouree, up to a maximum aggregate sum of \$186,024.60 (the "Amount").

Payment of the Amount or any part thereof will be made by the Bank to the Favouree without reference to the Customer and regardless of any notice from the Customer to the Bank not to pay any amount.

The Bank's obligations under this Undertaking cease on the earliest of the following:

- written notification is received by the Bank from the Favouree that the Undertaking is no longer required
- the Undertaking is returned to the Bank
- all payments by the Bank to the Favouree under the Undertaking total the Amount
- the Favouree notifies the Bank that the payments made by the Bank constitute the total amount required to be paid

Notwithstanding any other obligations of the Bank under this Undertaking the Bank may at any time after providing the Customer with 7 business days' notice, without being required to do so, extinguish any liability it has under the Undertaking by paying to the Favouree the Amount less any amount or amounts it has previously paid under this Undertaking, or any lesser amount the Favouree notifies the Bank as being acceptable to it.

The benefit of this Undertaking is personal to the named Favouree and is not capable of assignment.

For the purpose of this document, "business day" means a day we are open in the State or Territory where the Bank's address specified at the beginning of this document is situated. It does not include a public or bank holiday in that State or Territory.

BANKER'S UNDERTAKING

By: WESTPAC BANKING CORPORATION ABN 33 007 457 141 (the "Bank")

To: NSW Department of Planning and Environment ABN 38 755 709 681 of Level 22, 320 Pitt Street, Sydney NSW 2000 Australia (the "Favouree")

At the request of: See Civil Pty Ltd ACN 115 963 427 on behalf of Quarry Solutions Pty Ltd ABN 13 133 700 848 (the "Customer")

Amount: \$186,024.60

Liability No: GX49385

Dated at 1 King Street, Concord West, NSW 2138, this 7 May 2019

I certify that the Attorney for the Bank, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

	M.	Tribath.	Digitally signed by Mithilesh Tripathi DN: cn=Mithilesh Tripathi, o=Westpac Banking Corporation, eu+GX Servicing Team.
Signature of Witness:			email*mitrilesh.tripathi@westpac.com.a u, c+AU Date: 2019.05.30 17:35:09 +10:00*

Name of Witness: Mithilesh Tripathi

Address of Witness: 1 King Street, Concord West NSW 2138 Olga Jasin (Tier 3 Attorney) SIGNED byas attorney for Westpac Banking Corporation ABN 33 007 457 141 under power of attorney registered Book 4299 No 332.

a bin

DN: cn=OLGA JASIN, o=WESTPAC BANK CORPORATION, ou=WESTPAC BANK CORPORATION, email=ejasin@westpac.com.au, c=AU Date: 2018.05.31 07.38.39 +10'00'

Signature

By executing this instrument the attorney states that the attorney has received no notice of the revocation of the power of attorney.

Please forward all notices and correspondence to The Manager, Westpac Banking Corporation at Business Loan Centre NSW 1 King Street Concord West NSW 2138 (ref: Mark Parry - 032563 - Tweed Heads branch).

I certify this is the Original Bank Guarantee:
Signature of Westpac Manager/ Bank Officer:
Name of Bank Officer
Date
"This Bank Guarantee is valid only when this certification bears the original signature of a Westpac Manager/Bank Officer".