

**Independent Environmental Audit:  
East Guyong Quarry  
Project Approval 06\_0193 MOD 2**



Audit Reference:	<b>AQUAS Job No. 1260</b>
Audit Organisation:	<b>Hanson Construction Materials</b>
Auditors:	<b>James Hart, AQUAS</b>
Date of Audit:	<b>17 and 18 September 2019</b>
Draft Report Submitted:	<b>23 October 2019</b>
Final Report Submitted:	<b>3 November 2019</b>

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This report has been prepared and reviewed in accordance with our quality control system. The report is a preliminary draft unless it is signed below.

This report has been prepared by: James Hart

Signature

Date 3/11/2019

This report has been distributed to:

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## Independent Audit Certification Form

**Development Name** East Guyong Quarry  
**Development Consent No.** Project Approval 06\_193 MOD 2  
**Description of Development** Hard Rock Quarry  
**Development Address** 3410 Mitchell Highway Byng NSW 2798  
**Operator** Hanson Construction Materials Pty Ltd  
**Operator Address** Level 10, 35 Clarence Street Sydney, NSW 2000

## Independent Audit

**Title of Audit** Independent Environmental Audit: East Guyong Quarry Project Approval 06\_193 MOD 2

I certify that I have undertaken the independent audit and prepared the contents of the attached independent audit report and to the best of my knowledge:

- The audit has been undertaken in accordance with relevant approval condition(s) and in accordance with the auditing standard AS/NZS ISO 19011:2014 and Post Approval Guidelines – Independent Audits;
- The findings of the audit are reported truthfully, accurately and completely;
- I have exercised due diligence and professional judgement in conducting the audit;
- I have acted professionally, in an unbiased manner and did not allow undue influence to limit or over-ride objectivity in conducting the audit;
- I am not related to any owner or operator of the development as an employer, business partner, employee, sharing a common employer, having a contractual arrangement outside the audit, spouse, partner, sibling, parent, or child;
- I do not have any pecuniary interest in the audited development, including where there is a reasonable likelihood or expectation of financial gain or loss to me or to a person to whom I am closely related (i.e. immediate family);
- Neither I nor my employer have provided consultancy services for the audited development that were subject to this audit except as otherwise declared to the lead regulator prior to the audit; and
- I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from fair payment) from any owner or operator of the development, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Note.

a) The Independent Audit is an 'environmental audit' for the purposes of section 122B (2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000.

b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement—maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents—maximum penalty 2 years imprisonment or \$22,000, or both).

Signature: 

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**Auditor Certification** Exemplar Global Lead Environmental Auditor No 12107  
**Date** 3 November 2019

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## Abbreviations

AMP	Asbestos Management Plan
AQMP	Air Quality Management Plan
AS	Australian Standard
CCC	Community Consultative Committee
DA	Development approval
DDG	Deposition Dust Gauge
DPIE	Department of Planning Industry and Environment
DPI	Department of Primary Industry
DRG	Department of Resources and Geoscience
EA	Environmental Assessment titled Environmental Assessment Report September 2009: East Guyong Quarry NSW (3 volumes), dated September 2009, including the Proponent's Response to Submissions and Preferred Project Report
EA (MOD 1)	Environmental Assessment titled East Guyong Quarry- Section 75W Planning Assessment Report, dated November 2012
EA (MOD 2)	The modification application titled East Guyong Quarry Modification 2 Environmental Assessment, dated September 2018 and prepared for Hanson Construction Materials Pty Limited by Umwelt, and the Response to Submissions Report titled Response to Submissions East Guyong Quarry Modification 2, dated November 2018 and prepared by Umwelt and, and East Guyong Quarry Modification 2 Biodiversity Assessment Report, dated December 2018 and prepared by Umwelt, and additional information dated 11 and 23 January 2019 and provided by Umwelt
EIS	Environmental Impact Assessment
EMS	Environmental Management Strategy
EPA	Environment Protection Authority
EP&A Act	Environmental Planning and Assessment Act 1979
EPL	Environment Protection Licence
HVAS	High Volume Air Sampler
LMP	Landscape Management Plan
NMP	Noise Management Plan
OEH	Office of Environment and Heritage
Hanson	Hanson Construction Materials Pty Ltd
POEO Act	Protection of the Environment Operations Act 1997
RMS	Roads and Maritime Services
SWMP	Soil and Water Management Plan
TMP	Traffic Management Plan and Driver Code of Conduct
TSP	Total Suspended Particulates
TSS	Total Suspended Solids

## INTRODUCTION

### 1.1 Overview

Hanson Construction Materials Pty Ltd (Hanson) operate the East Guyong Quarry, an existing hard rock quarry located at 3410 Mitchell Highway Byng in the Cabonne Council Local Government Area. The Quarry is located within Lots 3 and 4 in DP 854608 and Lots 110 and 111 in DP 852503, and is surrounded by rural land holdings.

East Guyong Quarry provides products from basalt within the Quarry Site for both road base and aggregate products for the construction industry and the upgrading of roads.

PA 06\_0193 was granted by the Land and Environment Court on 21 May 2012 and was modified to permit a revised access route on 24 December 2012. On 19 April 2019, modification of the East Guyong Quarry, which includes the minor expansion / modification of the quarry pit (*Modification 2*), was approved by the NSW Department of Planning, Industry and Environment, subject to conditions.

The conditions of approval require Hanson to appoint an independent auditor to assess compliance with the Minister's Conditions of Approval obtained for the quarry operations.

Schedule 5, Condition 8 of the approval requires an Independent Environmental Audit to be conducted by 31 December 2013, and every 3 years thereafter, unless the Secretary directs otherwise. The condition requires the proponent to commission and pay the full cost of the audit. The audit must:

- a) Be led and conducted by a suitably qualified, experienced, and independent team of experts whose appointment has been approved by the Secretary;
- b) Include consultation with relevant agencies and the CCC;
- c) assess the environmental performance of the project and assess whether it is complying with the relevant requirements in this approval and any relevant EPL or other approval (including any assessment, plan or program required under these approvals);
- d) review the adequacy of strategies, plans or programs required under the abovementioned licences or approvals;
- e) recommend measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under these approvals; and
- f) be completed within 2 months of the approval of the audit team.

### 1.2 Audit Objectives

The objective of this Independent Environmental Audit was to assess the operations at the East Guyong Quarry and provide a report in accordance with the requirements of Schedule 5, Condition 8 of the project approval.

### 1.3 Audit Scope and Criteria

The scope of this audit was limited to the site, being the quarry located at 3410 Mitchell Highway Byng, and processes carried out by Hanson in operating the quarry. The audit is the third for the project under the current project approval and covered the period since the previous audit and the date of the site inspection, i.e. September 2016 to September 2019.

The audit scope included:

- the conditions of all relevant approvals;
- management plan requirements;
- the requirements of relevant regulatory agencies;
- the status of the operation;
- the performance of the operation;
- results from previous audits;
- any incidents or community complaints;
- feedback received from other regulatory agencies on the performance of the operation; and
- feedback received from the community / community consultative committee on the performance of the operation.

The audit criteria were developed by the Lead Auditor, and are included as a checklist at the end of this report.

## 2 Methodology

The audit methodology included a review of approval conditions and key management plans prepared for the quarry operations, interviews with project personnel, and a site inspection to assess the level of compliance and implementation of those requirements.

### 2.1 Audit Team

The audit was conducted by the following:

Auditor	Role	Qualifications and Experience
James Hart	Lead Environmental Auditor Exemplar Global No 12105	See attached CV

James Hart, was endorsed by the Secretary of the Department of Planning, Industry and Environment on 28 May 2019.

### 2.2 Approvals and Documents Audited

The following documents and approvals were reviewed and included within the audit:

- Consolidated Project Approval 06\_0193 MOD2.
- Water Access Licence 36530; 24 November 2015;
- Water Access licence 80AL722920, 10 March 2014.
- Air Quality Monitoring Program – East Guyong Quarry, July 2019;
- Noise Management Plan – East Guyong Quarry, July 2019.
- Asbestos Management Plan, East Guyong Quarry, June 2019.
- Aboriginal Cultural Heritage Management Plan, East Guyong Quarry, July 2019.
- Soil and Water Management Plan – East Guyong Quarry, July 2019.
- Landscape Management Plan – East Guyong Quarry, July 2019.
- Environmental Management Strategy – East Guyong Quarry, July 2019;

- Environmental Protection Licence No 20190, NSW EPA, 11 June 2019;
- Transport Management Plan and Driver Code of Conduct – East Guyong Quarry, July 2019;
- East Guyong Quarry Complaints Registers 2016-2019;
- Independent Environmental Audit East Guyong Quarry, Trevor Brown and Associates, 11 November 2016.
- East Guyong Quarry Independent Audit Response, 15 November 2016.
- East Guyong Quarry Annual Review 1 January 2018 to 31 December 2018, Report 869/17, March 2019;
- East Guyong Quarry Annual Review 1 January 2017 to 31 December 2017, Report 869/15, March 2018;
- East Guyong Quarry Annual Review 1 January 2016 to 31 December 2016, Report 869/12, March 2017;
- Truck Driver Induction Records February 2018 to August 2019.
- Transport monitoring Data, January 2017- September 2019;
- East Guyong Quarry Air Quality Monitoring Results, 2016 to 2019.
- East Guyong Quarry Water Discharge Registers, 2016 to 2019.
- East Guyong Quarry Groundwater levels data sheet, March 2014 to March 2019.
- East Guyong Quarry EPA Licence Conditions – Public Monitoring Register 2019.
- Asbestos Fibre Air Sampling & Analysis Report; East Guyong Quarry, 4 June 2019;
- East Guyong Quarry Community Consultative Committee Meeting No. 01\_2019, Monday 20th of May 2019.
- East Guyong Quarry Dust Deposition Report, December 2018 to June 2019.
- East Guyong Quarry Dust Deposition Report, January 2018 to October 2018.
- East Guyong Quarry Dust Deposition Report, January 2017 to December 2017.
- East Guyong Quarry Blasting Schedule, 2019.
- East Guyong Quarry noise and blast monitoring Report, March 2019.
- East Guyong Quarry noise and blast monitoring Report, June 2019.
- Site induction – Easter Region Quarry Environmental Management and Controls.
- Blast Monitoring Results October 2016 to July 2019.
- Road Safety and Condition audit, Transport and Urban Planning Pty Ltd 29 August 2019.

### 2.3 Agency and Community Consultation

The following people were consulted with prior to the audit to obtain feedback and to focus the audit criteria towards key issues.

Refer to **Appendix C** for consultation records provided.

Contact	Agency	Comments
Heather Nicholls	Cabonne Council	See attached Email
George Blackwell	Community Consultative Committee	No response received
Sophia Stanley – Policy and Project Officer	NSW Department of Primary Industries	No issues or concerns.
Melanie Hollis Senior Planning Officer	NSW Department of Planning, Industry and Environment	Progress of the vegetation screen proposed under Modification 2.



Lucy Apps Operations Office Central West	NSW Environment Protection Authority	No response prior to the audit. Noted that EPA policy is not to provide specific input to independent audits.
Erica Baigent Conservation Planning Officer	DPI – Biodiversity and Conservation Division	No response received

## 2.4 Name and Position of Persons Interviewed

The following site personnel were interviewed during the conduct of the audit:

Name	Position/Role	Organisation	Date of Interview
Chris Cooke	Quarry Manager	Hanson	17-18/09/19
Belinda Pignone	Graduate Environmental and Compliance Coordinator	Hanson	17-18/09/19

## 2.5 Audit Process

The audit commenced with an Opening Meeting to confirm the scope, purpose, and timeline of the audit. The Opening Meeting was held at 08.30am, 17 September 2019, in the East Guyong Quarry site office.

Key operational documents were reviewed, and evidence of compliance was sought through the interview process. Key documents were the various management plans required under the approval. Documentation included a combination of hard copy records and electronic records maintained by East Guyong Quarry, with records generally available during the audit. Additional records were provided subsequent to the onsite audit.

A site inspection was then conducted, which included inspection of roads and drainage structures, inspection of access control measures implemented, and inspection of quarrying operations. At the time of audit, activities being undertaken included extraction, crushing and loading operations.

A closing meeting was held at 4.30pm on 18 September 2019 where the preliminary audit findings were presented. Where aspects of the audit remained unresolved, Hanson was requested to provide additional information. This information was provided on 4 October 2019.

## 2.6 Audit Compliance Definitions

Audit compliance status descriptors were in accordance with the Independent Audit – Post Approval Requirements.

<b>Compliant</b>	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit
<b>Non-compliance</b>	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent of one or more specific elements of the regulatory approval have not been complied with within the scope of the audit.

<b>Not triggered</b>	A regulatory approval requirement has an activation or timing trigger that had not been met at the time of the audit inspection, therefore a determination of compliance could not be made.
<b>Opportunity for Improvement</b>	Opportunities for Improvement are recorded where the audit identified issues of concern which do not strictly relate to the scope of the audit or assessment of compliance. Further Opportunities for Improvement are considered to be areas where performance may be improved.

## 2.7 Issues to be considered in reviewing this report

This audit was based on a review of compliance with the approval conditions for the operation of East Guyong Quarry.

In particular, the audit focused on the implementation of measures described in the various Environmental Management Plans to manage the impacts of the activities on the surrounding environment. The checklist appended to this report identifies those compliance issues that could be assessed given the stage of the project.

By its very nature an audit does not guarantee full compliance of all aspects of the project with the undertakings of the Management Plans and associated documentation. However; in the opinion of the auditor, the extent and scope of the field inspection together with the records maintained by Hanson were sufficient evidence to verify general compliance of the activities with the requirements of the conditions of approval.

# 3 AUDIT FINDINGS

## 3.1 Overview

Specific activities being undertaken at the time of audit were:

- Loading and haulage of material from the extraction area to the processing plant;
- Crushing and screening of material;
- Stockpiling of materials;
- Loading of trucks for dispatch;
- Operation of excavator, quarry trucks and front end loader; and

The attached checklists record the outcomes of the audit process. Ten non-compliances where compliance with the conditions of consent, water access licence, EPL, or management plans could not be verified. The following sections summarise key findings for review and action by Hanson as appropriate.

## 3.2 Previous Audit Findings

Previous audit findings were reviewed as part of the current audit to assess implementation of actions identified to address issues. Information available showed previous findings had generally been addressed. A summary of previous findings and status is provided in Appendix A.

## 3.3 Consolidated Project Approval 06\_193 (Modified April 2019)

### Schedule 2 – Administrative Controls

The site had implemented processes to generally manage compliance with the administrative control requirements of the conditions of consent.

One non-compliance was identified in relation to Condition 15 of the administrative controls.

- While a site induction process had been implemented which included information on environmental responsibilities and controls, the induction did not ensure that employees and contractors are made aware of, and are instructed to comply with, the conditions of approval relevant to activities they carry out in respect of the project.

### **Schedule 3 – Environmental Performance Conditions**

All of the required management plans had been developed and provided to DPIE for review and approval. However, six (6) non-compliances were raised in relation to compliance with environmental performance conditions 8, 15, 26, 31, 35 and 36.

- The site had exceeded the airblast overpressure level of 115dB for more than five per cent of the total number of blasts over each reporting period. One exceedance had been recorded for the quarry operations. It is noted, due to the low number of blasts which occur, any exceedance of the 115dB criterion will result in a non-compliance with the airblast overpressure level criterion (NC-03).
- It could not be verified that the blasting hotline had been advertised twice yearly in the local newspaper or via an alternate system as agreed to by the Secretary (NC-04).
- The following requirements of the Noise Management Plan had not been implemented:
  - The site induction did not include communication of all basic noise awareness training incorporating the requirements of Section 7 of the Noise Management Plan (N-01).
  - Records were not available to verify that sound power levels of the mobile equipment complied with the requirements of Section 10.6 of the Noise Management Plan (NC-02).
- The following requirements of the Landscape Management Plan had not been implemented:
  - The site induction does not include specific requirements of the LMP (See NC-01);
  - Quarterly visual inspections of weed infestation and presence within the Quarry Site (NC-05);
  - Should the quarterly visual inspections identify weed infestations, additional weed control programs will be undertaken (NC-05);
  - Implement a twice annual weed treatment and reporting program (NC-05).
- The site induction does not include information on Aboriginal cultural heritage (See NC-01).

### **Schedule 4 – Additional Procedures**

No non-compliances with the Conditions of Approval under Schedule 4 were identified.

### **Schedule 5 – Environmental Management, Reporting and Auditing**

Processes had been implemented to comply with environmental management requirements. An Environmental Management Strategy had been documented and implemented, management plans prepared, and an annual review process implemented.

No non-compliances with the Conditions of Approval under Schedule 5 were identified.

### **3.4 Environmental Protection Licence (EPL 20190)**

EPL20190 had been issued for the operations, which places requirements on the site for the management of air, noise, water, and complaints. The site had complied with requirements for monitoring of noise, blasting, and surface water, and complaints management and reporting processes have been implemented and met.

Five non-compliances was identified in relation to EPL requirements M1.3, M2.2, M4.2, M8.1 and M8.2.

- The site had exceeded the airblast overpressure level of 115dB for more than five per cent of the total number of blasts over each reporting period. One exceedance had been report for the quarry operations. It is noted, due to the low number of blasts which occur, any exceedance of the 115dB criterion will result in a non-compliance with the airblast overpressure level criterion (NC-03).
- Records of dust deposition monitoring did not include the time that samples were collected or the name of the person who collected the sample (NC-07).
- While a continuous PM<sub>10</sub> monitor had been installed for the site, no monitoring records are available since April 2019 (Monitor out of service) (NC-08).
- A Noise Impact Assessment Report, had not been provided to the EPA within one month of completion of noise monitoring (NC-09).
- A flow meter and continuous logger had not been installed to monitor surface water discharge from Point 6 (NC-10).

### **3.5 Air Quality Management Plan**

An Air Quality Management Plan (AQMP) had been prepared for the project and submitted to the Secretary on 17/07/19. The AQMP included measures to minimise air quality impacts of the sites operations and requirements for air quality monitoring. Dust deposition monitoring results show that, while some individual results had exceeded 4g/m<sup>2</sup>/mth, the annual average criterion for dust deposition levels have been consistently below site criteria.

One non-compliance (NC-08) was raised in relation to compliance with the air quality management plan.

- While a continuous PM<sub>10</sub> monitor had been installed for the site, no monitoring records are available since April 2019 (Monitor out of service).

### **3.6 Soil and Water Management Plan**

A Soil and Water Management Plan (WMP) has been prepared for the Quarry (v2.0, January 2018). Following receipt of the Modification 2 approval in April 2019, the Soil and Water Management Plan was updated and submitted to DPIE on 17/07/19.

Erosion and sediment controls had been established on site, with water collected and used on site for dust suppression, with excess water permitted to flow to natural drainage. Water quality

volume and quality monitoring is required for discharges from the quarry. One discharge had occurred during the period covered by the audit, in October 2016. Records were available to demonstrate that water quality monitoring had been conducted.

Groundwater monitoring was conducted on five bores as required by the Water Management Plan. Continuous monitoring of groundwater levels was undertaken, with field variables measured quarterly and chemical analysis conducted annually. Records were available to verify groundwater monitoring had been conducted in accordance with the Water Management Plan.

One non-compliance (NC-01) was raised in relation to implementation of the water management plan.

- The site induction did not include basic information in relation to the operation of the Water Management Plan.

### 3.7 Landscape Management Plan

The Quarry has been operating under a Landscape Management Plan (LMP) which had been updated following the Modification 2 approval and submitted to DPIE on 17/07/2019. Hanson had consulted with DPIE, OEH, Cabonne Council and DPI Water. The LMP included requirements for clearing, threatened species, weeds and feral pests, erosion and sediment controls, and monitoring requirements. Limits of extraction had been identified.

Revegetation of benches on the eastern boundary had been undertaken, with grass and small trees established. Construction of the screening bund on the western boundary of the extraction area had commenced, although implementation of vegetation screening had not commenced, awaiting completion of the bunding works.

Two non-compliances (NC-01 and NC-05) had been identified in relation to the compliance with the LMP.

- The site induction did not include basic information in relation to the operation of the Landscape Management Plan (NC-01).
- The site had not implemented all requirements of the LMP. The following issues were identified:
  - Records were not available to show that quarterly weed infestation inspections had been conducted, and weed control programs had been undertaken.
  - No records were available to demonstrate that twice annual weed treatment and reporting had been conducted. (NC-05).

### 3.8 Noise Management Plan

A Noise Management Plan (NMP) had been prepared for the project following approval of Modification 2 and submitted to the Secretary on 17/07/19. No response had been provided at the time of audit. The most recent approved NMP was prepared and approved by DPIE on 21 July 2017. The site had implemented measures to comply with site working hours, and noise monitoring had been conducted during operational periods of the quarry in accordance with the requirements of the noise management plan and the EPL. Noise monitoring results indicated the site was complying with noise limits.

Two non-compliances (NC-01 and NC-02) had been identified in relation to the compliance with the landscape and rehabilitation management plan. The following requirements of the NMP had not been implemented:

- The site induction did not include communication of all basic noise awareness training incorporating the requirements of Section 7 of the Noise Management Plan (NC-01).
- Records were not available to verify that sound power levels of the mobile equipment complied with the requirements of Section 10.6 of the Noise Management Plan (NC-02).

### 3.9 Blast Management Plan

A Blast Management Plan (Rev 03, June 2019) had been developed, which had been submitted to DPIE for approval on 17/07/19. No formal response had been provided.

Two non-compliances (NC-03 and NC-04) was raised in relation to blast management.

- Conditions of approval Schedule 3-8 and EPL 20190 L5.3 required blast overpressure levels to be less than 120dB, with 5% of the total number of blasts allowed to exceed 115dB. One airblast overpressure level in July 2019 exceeded 115dB, but did not exceed the 120dB criteria. It is noted that this was the only occasion that the airblast overpressure level had been exceeded for the project. However, as there are less than 20 blasts per year, any exceedance of the 115dB criteria results in a non-compliance with project limits (NC-03).
- Unable to verify that the blasting hotline had been advertised twice yearly in the local newspaper or via an alternate system agreed to by the secretary (NC-04).

### 3.10 Transport Management Plan and Driver Code of Conduct

A Transport Management Plan and Driver Code of Conduct (TMP) had been submitted to DPIE on 17/07/2019 for approval. No formal response had been provided.

The audit identified general compliance with the TMP. Records of truck movements were maintained from weighbridge information. No non-compliances were identified.

### 3.11 Environmental Management Strategy

An Environmental Management Strategy (EMS) had been developed and submitted to the Director-General (now The Secretary) for approval in September 2012 prior to the commencement of construction activities. The EMS was updated following approval of MOD 2 and resubmitted 17/07/19.

### 3.12 Water Access Licence 36530

A water Access Licence had been obtained for extraction of groundwater for use in the Quarry.

Review of compliance with the conditions of the water licence found that the site had not maintained a logbook to record information on groundwater usage, including date and times taken, and quantities. As a result, the site was non-compliant with four of the conditions of the water access licence for which one non-compliance was raised.

- While a log book was available, the logbook had not been maintained to accurately record information required by the licence (NC-06).

### 3.13 Areas of Non-compliance and Recommendations

Issue No.	Condition	Requirement	Issue sighted						
NC-01	Schedule 2 15	The Proponent must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this approval relevant to activities they carry out in respect of the project	Evidence that contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this approval relevant to activities they carry out not available.  <b>Recommendation:</b> Update the site induction to include information on the conditions of approval and specific requirements of the site management plans.						
NC -02	Schedule 3 7	<p>The Proponent must prepare a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> <li>(a) be prepared in consultation with EPA, and be submitted to the Secretary for approval prior to the commencement of construction activities;</li> <li>(b) include: <ul style="list-style-type: none"> <li>• a description of the measures that would be implemented to minimise noise emissions from the project, with particular focus on:</li> <li>• quarrying operations within 500 metres of residences on privately-owned land;</li> <li>• transportation activities; and</li> <li>• continual improvement of noise performance;</li> <li>• a noise monitoring protocol for evaluating compliance with the relevant noise limits in this approval;</li> <li>• a protocol for the investigation, notification and mitigation of identified exceedances of the relevant noise limits; and</li> <li>• a continual improvement program for investigating, implementing and reporting on reasonable and feasible measures to reduce noise generated by the project.</li> </ul> </li> </ul> <p>The Proponent must implement the Noise Management Plan as approved by the Secretary.</p>	<p>All requirements of the NMP had not been implemented. Specifically:</p> <ul style="list-style-type: none"> <li>• The site induction did not include communication of all noise basic noise awareness training incorporating the requirements of Section 7 of the Noise Management Plan (N-01).</li> <li>• Records were not available to verify that and sound power levels of the mobile equipment complied with the requirements of Section 10.6 of the Noise Management Plan.</li> </ul> <p><b>Recommendation:</b></p> <ul style="list-style-type: none"> <li>• Update the site induction to include basic noise awareness training.</li> <li>• Undertake monitoring to determine the sound power levels of the mobile equipment.</li> </ul>						
NC-03	Schedule 3 8	<p>The Proponent must ensure that the airblast overpressure level from blasting at the project does not exceed the criteria in Table 4 at any residence on privately-owned land.</p> <p><small>Table 4: Airblast overpressure impact assessment criteria</small></p> <table border="1" data-bbox="399 1736 933 1848"> <thead> <tr> <th data-bbox="399 1736 582 1780">Airblast overpressure level (dB(Lin Peak))</th> <th data-bbox="582 1736 933 1780">Allowable exceedance</th> </tr> </thead> <tbody> <tr> <td data-bbox="399 1780 582 1814">115</td> <td data-bbox="582 1780 933 1814">5% of the total number of blasts in a 12 month period</td> </tr> <tr> <td data-bbox="399 1814 582 1848">120</td> <td data-bbox="582 1814 933 1848">0%</td> </tr> </tbody> </table>	Airblast overpressure level (dB(Lin Peak))	Allowable exceedance	115	5% of the total number of blasts in a 12 month period	120	0%	<p>One exceedance of the airblast overpressure level occurred in July 2019 (119.2dB).</p> <p><b>Recommendation:</b> Ensure blasting is planned and coordinated to ensure that the airblast overpressure level from blasting at the project does not exceed 115dB(Lin Peak)</p>
Airblast overpressure level (dB(Lin Peak))	Allowable exceedance								
115	5% of the total number of blasts in a 12 month period								
120	0%								

<p><b>NC-04</b></p>	<p>Schedule 3 15</p>	<p>The Proponent must ensure: the development does not result in any queuing on the public road network unless otherwise approved by Council;</p> <ul style="list-style-type: none"> <li>a) operate a blasting hotline and advertise the hotline number in a local newspaper at least twice a year, or operate an alternate system agreed to by the Secretary, to enable the public to get up-to-date information on the blasting schedule;</li> <li>b) publish an up-to-date blasting schedule on its website; and</li> <li>c) notify the landowner/occupier of any residence within 2 kilometres of the site about the blasting schedule, blasting hotline and its website, to the satisfaction of the Secretary.</li> </ul>	<p>Unable to verify that the blasting hotline had been advertised twice yearly in the local newspaper or via an alternate system agreed to by the secretary.</p> <p><b>Recommendation:</b> Advertise the blasting hotline twice yearly in the local newspaper. Alternately, submit for approval to the Secretary an alternate process for communicating the blast hotline.</p>
<p><b>NC-05</b></p>	<p>Schedule 3 31</p>	<p>Within 3 months of approval of Modification 2, the Proponent must prepare a Landscape Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> <li>(a) be prepared in consultation with OEH, DoI L&amp;W and Council, and be submitted to the Secretary prior to the commencement of quarrying operations; and</li> <li>(b) include a: <ul style="list-style-type: none"> <li>• Rehabilitation and Biodiversity Management Plan; and</li> <li>• Long-Term Management Strategy.</li> </ul> </li> </ul> <p>The Proponent must implement the Landscape Management Plan as approved by the Secretary.</p> <p><i>Note: The Department accepts that the initial Landscape Management Plan may not include the detailed Long-Term Management Strategy. However, a conceptual strategy must be included in the initial plan, along with a timetable for augmentation of the strategy with each subsequent review of the plan.</i></p>	<p>The following requirements of the Landscape Management Plan had not been implemented:</p> <ul style="list-style-type: none"> <li>• quarterly visual inspections of weed infestation and presence within the Quarry Site;</li> <li>• Should the quarterly visual inspections identify weed infestations, additional weed control programs will be undertaken;</li> </ul> <p>Implement a twice annual weed treatment and reporting program</p> <p><b>Recommendation:</b> Ensure all requirements of the LMP are implemented. Maintain records to verify implementation of requirements.</p>
<p><b>NC-06</b></p>	<p>Water Access Licence WAL36530</p>	<p>The licence holder must record the following in the logbook:</p> <ul style="list-style-type: none"> <li>(i) each date and period of time during which water is taken under this licence;</li> <li>(ii) the volume of water taken on that date;</li> <li>(iii) the water supply work approval number of the water Supply work used to take the water on that date;</li> <li>(iv) the purpose or purposes for which the water taken on that date.</li> </ul>	<p>While a logbook was available, the logbook had not been completed since 2017. It was noted that the bore pump runs continuously during daylight hours.</p> <p><b>Recommendation:</b> Maintain a logbook in accordance with the requirements of the water access licence.</p>
<p><b>NC-07</b></p>	<p>EPL 20190 M1.3</p>	<p>The following records must be kept in respect of any samples required to be collected for the purposes of this licence:</p> <ul style="list-style-type: none"> <li>a) the date(s) on which the sample was taken;</li> <li>b) the time(s) at which the sample was collected;</li> <li>c) the point at which the sample was taken; and</li> <li>d) the name of the person who collected the sample.</li> </ul>	<p>Dust deposition monitoring reports did not include the time samples were collected or the name of the person who collected the sample.</p> <p><b>Recommendation:</b> Ensure records of dust depositional monitoring</p>



			include all information required by the EPL.			
NC-08	EPL 20190 M2.2	Air Monitoring Requirements		Continuous monitoring of PM <sub>10</sub> has not been conducted. The monitor had been out of service since April 2019.  <b>Recommendation:</b> Ensure continuous monitoring of PM <sub>10</sub> dust concentrations is conducted.		
		2,3,4	Deposited Dust		g/m <sup>2</sup> /month	Monthly
		5	PM <sub>10</sub>	ug/m <sup>3</sup>	Continuous	AS2724.4
NC-09	EPL 20190 M4.2	The licensee is required to provide the EPA with a Noise Impact Assessment document no later than one month after the attended noise monitoring required by condition M4.1 was carried out that outlines the findings of this noise monitoring.		No records that a Noise Impact Assessment document had been submitted to the EPA within one month of the attended noise monitoring.  <b>Recommendation:</b> Submit a Noise Impact Assessment document to the EPA within one month of the attended noise monitoring being conducted.		
NC-10	EPL 20190 M8.1	For each discharge point or utilisation area specified below, the licensee must monitor:		A flow meter and continuous logger had not been installed to monitor volume and flow rate of discharge.  <b>Recommendation:</b> Install a flow meter and continuous logger to monitor volume and flow rate of water discharged from the site. Alternately, as only one flow event has occurred from the site, consider seeking an amendment to the licence to remove the requirements for installing a flow meter and continuous monitor.		
		<ul style="list-style-type: none"> <li>a) the volume of liquids discharged to water or applied to the area;</li> <li>b) the mass of solids applied to the area;</li> <li>c) the mass of pollutants emitted to the air;</li> </ul> at the frequency and using the method and units of measure, specified below.				
		<b>Point 6</b>				
		Continuous during discharge	kilolitres per day	Flow meter and continuous logger		

### 3.14 Areas of compliance

All other relevant conditions audited were found to be either compliant or not triggered. Refer to the audit checklist provided as an attachment for full details of compliance.

## 4 CONCLUSIONS

Hanson had developed management plans and associated documentation to address the requirements of the conditions of consent. Management plans had been updated and submitted to DPIE and relevant agencies for review and approval following Modification 2 approval, although at the time of audit approval had not been provided for all management plans.

While compliance with aspects of the conditions of the project approval and management plans was found, ten non-compliances were raised where compliance with requirements of the EPL, water access licences, management plans prepared for the site or conditions of consent was not demonstrated. Hanson should ensure that actions are identified and implemented to address the findings contained within this audit to enable compliance with all obligations and ensure environmental impacts of the developments are appropriately managed.

### ATTACHMENTS

- ✓ **Substantive Changes**
- ✓ **Auditor CV**
- ✓ **Audit Checklists**

### CIRCULATION

- ✓ **Hanson Construction Materials Pty Ltd**
- ✓ **AQUAS Pty Ltd**

## 5 Substantive Changes.

One non-conformance were removed from the report following the provision of additional documentation/ clarification of information provided as detailed following.

<p>Schedule 3 35</p>	<p>Within 3 months of each Independent Environmental Audit (see condition 8 of schedule 5), the Proponent must review, and if necessary revise, the sum of the rehabilitation bond to the satisfaction of the Secretary. This review must consider:</p> <ul style="list-style-type: none"> <li>• the effects of inflation;</li> <li>• the area proposed to be disturbed in the next 3 years and any changes to the total area of disturbance; and</li> <li>• the performance of the rehabilitation to date.</li> </ul>	<p>Unable to verify that the sum of the rehabilitation bond had been reviewed and revised to the satisfaction of the Secretary.</p> <p><b>Updated information</b> Letter from DP&amp;E - A/Director Resource Assessments dated 28/04/17 showing acceptance of the revised bond calculation provided 27/04/2017.</p>
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## **Appendix A. – Auditor CV**



## CURRENT POSITION

Senior Project Manager

## QUALIFICATIONS

Newcastle University, Graduate Diploma in Occupational Health and Safety, 2003

Newcastle University, Graduate Diploma in Environmental Science, 1997

Newcastle University, Bachelor of Science (Chemistry), 1981

Exemplar Global - Lead Quality, OHS, Environmental Auditor No. 12105



## Major Projects

- ✓ Lead Environmental Auditor - Hanson Construction Materials – Independent Environmental Audits Calga Sand Quarry, Central Coast Sand Quarry and Bass Point Sand Quarry
- ✓ Lead Environmental Auditor - Hanson Construction Materials – Independent Environmental Audit Austen Quarry
- ✓ Lead Environmental Auditor – Hy-Tec Industries Pty Ltd – Independent Environmental Audit Tinda Creek Sand Quarry
- ✓ Lead Environmental Auditor –Oberon Quarries Pty Ltd– Independent Environmental Audit Oberon Quarry
- ✓ Lead Environmental Auditor – Gladstone Ports Corporation - Western Basin Dredging and Disposal Project, WICET project, Tug Berths Dredging project.
- ✓ Lead Quality, Safety, Environmental and Risk Auditor – Sydney Trains SEQR Audit Panel
- ✓ Lead WHS Auditor - TfNSW Lead Auditor Support Resource Panel
- ✓ Lead Quality, Safety, Environmental Auditor – Transgrid Audit Panel
- ✓ Lead Quality, WHS and Environmental Auditor – Roads and Maritime Services Audit Panel
- ✓ Lead Quality, WHS and Environmental Auditor – SAI Global Assurance Services
- ✓ Independent Certifier's Safety Manager – North West Rail Link - Tunnels & Station Civil Works
- ✓ Independent Verifier's audit and compliance consultant – Hexham Relief Roads Project
- ✓ Independent Certifier's Safety Manager – Westconnex project.

## Relevant Experience

James Hart spent a decade as an industrial chemist before gaining postgraduate qualifications in environmental science and occupational health and safety. Prior to joining AQUAS in 2010, he worked for 15 years in a range of consulting positions as an environment, safety, and quality auditor. His career highlights include two years in the UK and Europe, conducting manufacturing site audits for multi-national commercial organisations, where he enjoyed the challenges of working with different languages, cultures, and regulatory frameworks. James' work with AQUAS takes him all over Australia, conducting audits across a broad range of sectors including commercial, infrastructure and government facilities.

James has extensive technical experience in his three areas of specialisation: quality, safety, and environmental compliance. The scope of his work varies according to the specific requirements of each engagement and may include an audit of contractors' plans and documentation during the approvals stage, and/or site audits to verify compliance with existing documentation. James has a cooperative, open and positive attitude and strong relationship-building skills. He is valued by both clients and contractors for his 'firm but fair' approach, his willingness to explain the rationale and benefits of each requirement, and to share his knowledge to help contractors resolve issues and achieve compliance.

- More than 20 years' international experience in quality, safety, and environmental auditing
- Experience across a broad range of sectors including commercial, government, and infrastructure
- Detailed technical knowledge and postgraduate qualifications with a commitment to ongoing learning
- Valued for being open, transparent and 'firm but fair'

- Strong relationship-building skills across all levels
- Cooperative and positive in his approach, committed to sharing knowledge and facilitating compliance.

## Project Experience

- ✓ Lead Environmental auditor – Independent environmental audit of the Calga Sand Quarry, Central Coast Sand Quarry and Possum Bass Point Quarry on behalf of Hanson Construction Materials Pty Ltd.
- ✓ Lead Environmental auditor – Independent environmental audit of the Austen Quarry on behalf of Hy-Tec Industries Pty Ltd.
- ✓ Lead Environmental auditor – 3<sup>rd</sup> Party Environmental audits on behalf of Gladstone Ports Corporation for the Western Basin Dredging and Disposal project.
- ✓ Lead Environmental auditor – 3<sup>rd</sup> Party Environmental audits on behalf of Gladstone Ports Corporation for the WICET dredging project.
- ✓ Environmental auditor – Independent audit of the Oberon Quarries Pty Ltd on behalf of Oberon Quarries Pty Ltd.
- ✓ Environmental auditor - Independent Environmental Audit of the Tinda Creek Sand Quarry project on behalf of Hy-Tec Industries Pty Ltd.
- ✓ Environmental auditor – M1 Pacific Motorway Tuggerah to Doyalson Widening Project on behalf of RMS.
- ✓ Environmental auditor – M1 Pacific Motorway Kariang to Somersby Widening Project on behalf of RMS.
- ✓ Environmental auditor – Pacific Complete - Pimlico to Teven project on behalf of RMS.
- ✓ Environmental auditor – Independent audit of the Mackas Sands Sand Extraction, Lot 218 and Lot 220, Salt Ash.
- ✓ Environmental Auditor - Pacific Complete - Woodburn to Broadwater project on behalf of RMS.
- ✓ Environmental auditor – New Bridge over Sportmans Creek at Lawrence, on behalf of RMS.
- ✓ Lead WHS and Environmental audit, NSW TrainLink internal audit program 2014-2015.
- ✓ Quality, safety and environmental auditor – Mayfield Intermodal Remediation project.
- ✓ Quality, safety and environmental auditor – Kooragang Island Waste Emplacement Facility remediation project.

James had also undertaken WHS and environmental inspections on behalf of clients to monitor implementation of WHS and environmental controls on worksites. Project where inspection services have been provided include:

- ✓ Gerringong Upgrade – Mt Pleasant to Toolijooa Road Project, NSW RMS;
- ✓ Nabiac Upgrade project, NSW RMS;
- ✓ Hunter Expressway project, NSW RMS;
- ✓ Five Islands project, NSW RMS;
- ✓ NIER building construction project, University of Newcastle.

This wide range of experience has provided James with a broad skill range of auditing skills in the quality, OHS and environmental management sectors.

## Experience History

### 2011 – Present: AUSTRALIAN QUALITY ASSURANCE & SUPERINTENDENCE (AQUAS)

#### Senior Consultant / SEQR Auditor

- ✓ Environmental auditor – Independent audit of the Austen Quarry to assess compliance with the Department of Planning and Environment's conditions of approval.
- ✓ Environmental auditor – Independent audit of the Tinda Creek Sand Quarry to assess compliance with the Department of Planning and Environment's conditions of approval.
- ✓ Environmental auditor – Independent audit of the Oberon Quarry to assess compliance with the Department of Planning and Environment's conditions of approval.
- ✓ Certified independent environmental audit for the Western Basin Dredging and Disposal project, and the WICET Coal Berth Dredging project in Gladstone Queensland.
- ✓ Independent audits of the Mackas Sands development to assess compliance with the Department of Planning and Environment's conditions of approval
- ✓ Lead Quality, Safety, Environmental and Risk Auditor – Sydney Trains SEQR Audit Panel
- ✓ Independent audit of Mackas Sands Sand Extraction, Lot 218 and Lot 220, Salt Ash on behalf of the NSW Department of Planning and Infrastructure.
- ✓ HSE audits of various construction projects on behalf of Transgrid.
- ✓ QHSE audits on behalf of the South Australian Department of Transport, Environment and Infrastructure.

- ✓ Environmental and Health and safety audits of road construction projects on behalf of NSW Roads and Marine Services;
- ✓ Health Safety and Environmental audits on behalf of the project verifier for the Hunter Express and Kempsey bypass projects.
- ✓ Development of OHS management system for Williams River Steel to enable certification to AS4801:2001 and Federal Safety commissioner accreditation.
- ✓ QHSE audits of projects associated with the rehabilitation of lands associated with the former BHP site in Newcastle, NSW.
- ✓ QHSE Audits of rail bridge replacement projects on behalf of Transfield Services Limited.
- ✓ Environmental audit of the Curragh North Coal Mine to assess compliance with the requirements of the EPBC conditions of approval.

#### **2008-2010: JAMES HART CONSULTING**

- ✓ Provided Quality, Environmental, and OHS auditing services to UK certification authorities.
- ✓ Conducted preliminary document review (gap analysis), certification, surveillance and recertification audits were undertaken both within the UK and Europe, and were conducted against the requirements of ISO 9001:2008, ISO 14001:2004, ISO 14001:2004RC, and OHSAS 18001:2007.
- ✓ Provided auditor verification services, verifying auditors on behalf of SAI Global throughout Europe.

#### **2000-2004; May 2007 - Nov 2008: GHD PTY LTD**

Senior Environmental Chemist

- ✓ RTA Audit Panel for conducting OH&S and environmental audits of RTA projects.
- ✓ Department of Planning approved Environmental Auditor for the Sandgate Rail Separation project.
- ✓ Co-ordination of environmental projects, and occupational hygiene and hazardous materials surveys.
- ✓ OHS, Quality and EMS coordinator for the office, with responsibility for ensuring that quality and environmental management procedures and practices were implemented and maintained.
- ✓ Management of a range of environmental monitoring projects including site contamination assessments, and quarterly monitoring programs for landfill sites.

#### **Sep 2007 – May 2008: SAI GLOBAL**

Management Systems Auditor

- ✓ Conducted Quality, OHS and Environmental management systems audits for companies certified by SAI Global against the requirements of ISO 9001:2000, ISO 14001:2004, AS/NZS 4801:2001, and OHSAS 18001. Audits conducted included preliminary document review (gap analysis), certification, surveillance and recertification audits.

#### **Mar 2004 – Sep 2006: URS Australia**

Senior Environmental Chemist

- ✓ Conducted occupational health and safety and environmental due diligence and compliance audits and inspections for clients.
- ✓ NSW Roads and Traffic Authority (RTA) panel for conducting OH&S and environmental audits.
- ✓ Audit panel as a Lead Health Safety and Environmental Auditor to conduct HSE audits of gas and electrical projects for AGL Energy Ltd.
- ✓ Department of Planning approved auditor responsible for conducting annual environmental compliance audits of Port Waratah Coal Services – Kooragang Stage Three Expansion for compliance with the department of Planning's conditions of consent.
- ✓ Co-ordination of environmental noise monitoring projects for URS in NSW
- ✓ Verifiers Environmental and OHS representative for the Nabiac Upgrade project, a major road construction project on the mid north coast of NSW.
- ✓ OHS Advisor and representative for the Newcastle Office, with responsibility for the implementation of the OHS program and coordination of OHS initiatives in the Office.

#### **1994 – 2000: METFORD LABORATORIES**

Senior Environmental Chemist

- ✓ Co-ordination of sampling programs for environmental and occupational hygiene purposes.

- ✓ Management of dust monitoring programs for various mines in the Hunter Valley.
- ✓ Management of water (surface and groundwater) monitoring programs for various mines and industry in the Hunter Valley.
- ✓ Sampling and analysis of soils, waters, and airborne contaminants.
- ✓ Management of environmental noise monitoring programs and workplace surveys for occupational noise.

#### **GENKEM PTY LTD (1989- 2004)**

Plant Chemist

- ✓ Management of the laboratory operations for the site.
- ✓ Investigations into the use of metal coagulants and polyacrylamide flocculants for the clarification of process and waste waters from the mining and food processing.
- ✓ Responsible for ensuring EPA licence requirements for the site were met.

#### **CSR WOOD PANELS (2004 – 1989)**

Plant Chemist

- ✓ Responsible for supervising a group of seven concerned with materials testing, press plate preparation, process material additions, effluent treatment and waste board recovery.
- ✓ Led and assisted in several investigations aimed at improving product quality, and technical investigations relating to new product development.

#### **BHP LABORATORIES (1977- 1982)**

Chemistry Degree Trainee

- ✓ Employed as a Chemistry Degree Trainee and later as a chemist in the Newcastle Steelworks laboratory.
- ✓ Analysis of raw materials and products associated with the steel making process.



## **Appendix B. - Previous Audit Findings**

Recommendation	Hanson Response	Status
<p><b>Enhancement Fund</b>  The Proponent shall establish a Community Enhancement Fund of a minimum of \$25,000 and implement expenditure from the fund to the satisfaction of the D-G. Proposals for expenditure from the fund must be prepared by the Proponent in consultation with Council and the CCC, and be submitted to the D-G for approval within 6 months of the date of this approval. Fund payment was due on 4/6/2013. Sighted letter from Howard Reed, DPIE dated 26/2/2014, approving Cabonne Council proposed CEF dated 12/12/2013. The CEF was applied to replacing boundary fence around cemetery (\$23,500) and grave stone repairs (\$1500). It was noted that this was an administrative breach substantially outside of the proponent's control. The Proponent advised that delay in paying into the fund arose from the need for preparation of heritage reports for Council that took longer than anticipated.</p>	<p>The replacement of the boundary fence around cemetery has been completed. Repairs to the gravestones are still he subject of consultation with the families of the deceased, the timing substantially is at this point &amp; time outside of the control of Hanson.</p>	<p>A total of \$1,500 remains in the fund and Hanson are in consultation with Cabonne Council about the appropriate steps required to initiate gravestone refurbishment. It is understood that Council is facilitating contact with the relatives of the people whose gravestones would be refurbished.</p> <p><b>Closed</b></p>
<p><b>Traffic and access</b>  The proponent will submit a Driver Code of Practice for approval to ensure that truck drivers are made aware of the obligations of safety and environmental compliance when accessing the site and driving on the quarry property. All Hanson employee truck drivers and subcontractors will be conditioned to adhere to the approved Driver Code of Practice. Proponent stated this was not in place at this quarry site. Proponent to prepare a code of driver practice and submit it to the Department for approval.</p>	<p>A Drivers Code of Conduct in conjunction with the Traffic Management Plan dated December 2015 Plan has been prepared and implemented for the East Guyong Quarry, (Please find the Director General's Endorsement attached)</p>	<p>Drivers code of conduct available on site. Endorsed by DPIE 6/05/2016. Inductions include drivers Code of Conduct.</p> <p><b>Closed</b></p>

## **Appendix C. – Audit Checklists**

6 Audit Checklist – Consolidated Development Consent PA 06\_0193

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>SCHEDULE 2 – ADMINISTRATIVE CONTROLS</b>					
<b>Obligation to Minimise Harm to the Environment</b>					
1.	1	In addition to meeting the specific performance measures and criteria in this approval, all reasonable and feasible measures must be implemented to prevent, and if prevention is not reasonable and feasible, minimise, any material harm to the environment that may result from the construction and operation of the project, and any rehabilitation required under this approval.	Measures have been identified with management plans for preventing or minimising environmental harm. No material harm resulting from the Quarry operations has been recorded.	Compliance	
<b>Terms of Approval</b>					
2.	2	The Proponent must carry out the project generally in accordance with the: (a) EA, EA (MOD 1) and EA (MOD 2); (b) statement of commitments; and (c) project layout in Appendix 1 <i>Notes:</i> • The layout of the project is shown on the figures in Appendix 1. • The statement of commitments is reproduced in Appendix 2.	The results of this audit demonstrate that the project has generally been carried out in accordance with the Environmental Assessment (2009), EA MOD1, EA (MOD 2); statement of commitments and project layout in Appendix 1.	Compliance	
3.	2A	The Proponent must carry out the project in accordance with the conditions of this approval.	The results of this audit demonstrate that the project has generally been carried out in accordance with conditions of approval.	Compliance	
4.	3	Consistent with the requirements in this approval, the Secretary may make written directions to the Proponent in relation to: (a) the content of any strategy, study, system, plan, program, review, audit, notification, report or correspondence submitted under or otherwise made in relation to this approval, including those that are required to be, and have been, approved by the Secretary; and (b) the implementation of any actions or measures contained in any such document referred to in condition 3(a) of Schedule 2.	Hanson had not received any written directions from the Secretary.	Not Triggered	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
5.	4	The conditions of this approval and directions of the Secretary prevail to the extent of any inconsistency, ambiguity or conflict between them and a document/s listed in condition 2(a) of Schedule 2. In the event of an inconsistency, ambiguity or conflict between any of the document/s listed in condition 2(a) of Schedule 2, the most recent document prevails to the extent of the inconsistency, ambiguity or conflict.	No inconsistency, ambiguity or conflict between any of the document/s had been identified.	Not Triggered	
<b>Limits on Approval</b>					
6.	5	Quarrying operations may take place at the site until 31 December 2042. Notes: <ul style="list-style-type: none"> <li>Under this approval, the Proponent is required to rehabilitate the site to the satisfaction of the Secretary. Consequently this approval will continue to apply in all other respects other than the right to conduct quarrying operations until the site has been rehabilitated to a satisfactory standard.</li> <li>Any extension of quarrying operations after this time will be subject to further approval.</li> </ul>	Current year 2019	Compliance	
7.	6	The Proponent must not transport more than 600,000 tonnes of product from the site per calendar year.	Up to September 2019 – 207,700 T 2018 – 385,255 T	Compliance	
8.	6A	The Proponent must not dispatch: <ul style="list-style-type: none"> <li>(a) more than 30 laden trucks per hour on any operating day;</li> <li>(b) more than 160 laden trucks per day, Monday and Friday; and</li> <li>(c) more than 60 laden trucks per day on Saturdays.</li> </ul> Note: Dispatch of laden trucks is also controlled by the operating hours specified in condition 6 of Schedule 3.	Records of loads obtained from weighbridge - maintained in SAP. 2019 Maximum loads/ hour– 15 27/08/19 Maximum loads per day 109 loads 2/08/19. 2018 Maximum loads/ hour– 24 17/05/18 Maximum loads per day 156 loads 8/03/18 2017 Maximum loads/ hour– 18 - 23/05/17 Maximum loads per day 103 loads 3/11/17	Compliance	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>Structural Adequacy</b>					
9.	7	<p>The Proponent 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.</p> <p>Notes:</p> <ul style="list-style-type: none"> <li>Under Part 6 of the EP&amp;A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works;</li> <li>Part 8 of the EP&amp;A Regulation sets out the requirements for the certification of the project.</li> </ul>	No new buildings within the previous 3 years (since previous audit).	Not Triggered	
<b>Protection of Public Infrastructure</b>					
10.	8	<p>The Proponent must:</p> <ol style="list-style-type: none"> <li>repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the project; and</li> <li>relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the project.</li> </ol>	<p>No damage has been reported during the period covered by this audit.</p> <p>No relocation of public infrastructure has been required during the period covered by this audit.</p>	Not Triggered	
<b>Operation of Plant and Equipment</b>					
11.	9	<p>The Proponent must ensure that all plant and equipment used at the sites:</p> <ol style="list-style-type: none"> <li>maintained in a proper and efficient condition; and</li> <li>operated in a proper and efficient condition.</li> </ol>	<p>Records of plant maintenance were verified</p> <p>Daily prestart inspections and maintenance records were sighted</p> <p>e.g. Jacques Jaw Crusher prestart inspection 28/08/19</p>	Compliance	
<b>Community Enhancement Fund</b>					
12.	10	<p>The Proponent must establish a Community Enhancement Fund of a minimum of \$25,000 and implement expenditure from the fund to the satisfaction of the Secretary. Proposals for expenditure from the fund must be prepared by the Proponent in consultation with Council and the CCC, and be submitted to the Secretary for approval within 6 months of the date of this approval.</p>	<p>2014- Fund established for repairs to East Guyong cemetery. The fund had been established with Council and the CCC, and approved by the Secretary in 2014. (See previous audit). Verified previous audit</p>	Compliance	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>Staging, Combining and Updating Strategies, Plans or Programs</b>					
13.	11	With the approval of the Secretary, the Proponent may: <ul style="list-style-type: none"> <li>(a) prepare and submit any strategy, plan or program required by this approval on a staged basis (if a clear description is provided as to the specific stage and scope of the project to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program);</li> <li>(b) combine any strategy, plan or program required by this approval (if a clear relationship is demonstrated between the strategies, plans or programs that are proposed to be combined); and</li> <li>(c) update any strategy, plan or program required by this approval (to ensure the strategies, plans and programs required under this approval are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the project).</li> </ul>	Plans have not been submitted on a staged basis.  Plans have been updated and submitted to the Secretary within 3 months of approval. Sent 17/07/19 (ACHMP, AMP, LMP, TMP, AQMP, BMP, EMS and NMP) WMP sent by Nick Corkery on 17/07/19.	Compliance	
14.	12	If the Secretary agrees, a strategy, plan or program may be staged or updated without consultation being undertaken with all parties required to be consulted in the relevant condition in this approval.		Not Triggered	
<b>Application of Existing Strategies Plans or Programs</b>					
15.	13	The Proponent must continue to apply existing management strategies, plans or monitoring programs approved prior to the approval of Modification 2, until the approval of a similar plan, strategy or program following the approval of Modification 2.	Hanson reported that existing plans have continued to be implemented.	Compliance	

**Audit Checklist: Project Approval 06\_0193**

**Project: East Guyong Quarry Contractor: Hanson Construction Materials Pty Ltd Date: 17-18/09/2019**



AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>Evidence of Consultation</b>					
16.	14	Where conditions of this approval require consultation with an identified party, the Proponent must: (b) consult with the relevant party prior to submitting the subject document; and (c) provide details of the consultation undertaken including: (i) the outcome of that consultation, matters resolved and unresolved; and (ii) details of any disagreement remaining between the party consulted and the Proponent and how the Proponent has addressed the matters not resolved.	RMS, Cabonne Council consulted on Traffic Management Plan (Included in TMP- Section 5). WMP – no response received from National Resource Access Regulator ACHMP – No response from registered aboriginal parties, response received from OEH.	Compliance	
<b>Compliance</b>					
17.	15	The Proponent must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this approval relevant to activities they carry out in respect of the project.	Site induction – Easter Region Quarry Environmental Management and Controls. Points covered include: - Site licence/ EMP - Requirement to report immediately any breach - Aspect and impacts register - How individuals can contribute to reducing environmental impact - Show location of spill kits and how to use them. <b>Evidence that contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this approval relevant to activities they carry out not available.</b>	<b>Non-Compliance</b>	<b>01</b>
<b>Applicability of Guidelines</b>					
18.	16	References in the conditions of this approval to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this approval.		Compliance	
19.	17	However, consistent with the conditions of this approval and without altering any limits or criteria in this approval, the Secretary may, when issuing directions under this approval in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.		Not Triggered	



AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>SCHEDULE 3 – SPECIFIC ENVIRONMENTAL CONDITIONS</b>					
<b>NATURALLY – OCCURRING ASBESTOS</b>					
<b>Asbestos Mapping</b>					
20.	1	<p>The Proponent must undertake further investigations to map the extent of the asbestos mineralisation within the project area to the satisfaction of the Secretary. This investigation must:</p> <ul style="list-style-type: none"> <li>(a) be undertaken in consultation with DRE;</li> <li>(b) be completed by a suitably qualified geologist, whose appointment has been approved by the Secretary; and</li> <li>(c) be submitted to the Secretary for approval prior to any earthworks occurring on site.</li> </ul> <p>The Proponent must make the results of the investigation publicly available either on its website or by another method as agreed to by the Secretary.</p>	<p>Verified previous audit – To address this condition additional investigation and mapping was carried out in July and August 2012:</p> <ul style="list-style-type: none"> <li>(a) Consultation occurred with DRE during the preparation of the program of further investigations and mapping;</li> <li>(b) Rangott Mineral Exploration Pty Ltd was approved by the Director-General and appointed to conduct the program of additional investigations and mapping of the NOA on site;</li> <li>(c) the findings of the additional investigations and mapping were provided in “Report on Drilling programmes at the Planned Quarry Site (East Guyong, NSW)”, 31 August 2012. The geology and copy of the RME Report are available at the East Guyong Quarry site for viewing.</li> </ul> <p>During the site inspection, it was noted that areas where NOA was present were fenced off and asbestos warning signs displayed.</p>	Compliance	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>Fencing and Signage</b>					
21.	2	The Proponent must install appropriate fencing and warning signage around all surface outcrops of asbestos minerals within the project area to prevent access by persons, to the satisfaction of the Secretary.	Verified during site inspection. 	Compliance	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #				
<b>Asbestos Impact Assessment Criteria</b>									
22.	3	<p>The Proponent must ensure that any asbestos fibres generated at the site do not exceed the impact assessment criterion in Table 1.</p> <table border="1"> <caption>Table 1: Asbestos impact assessment criterion</caption> <thead> <tr> <th>Measurement</th> <th>Limit</th> </tr> </thead> <tbody> <tr> <td>Asbestos Fibres/ml of air</td> <td>0.01</td> </tr> </tbody> </table>	Measurement	Limit	Asbestos Fibres/ml of air	0.01	<p>Asbestos Fibre Air Sampling was conducted monthly (Greencap, NATA registration 5450). No exceedance of site limits for asbestos fibres has been recorded.</p> <p>Noted that monitoring has been reduced to quarterly (as per the updated Asbestos Management Plan).</p>	Compliance	
Measurement	Limit								
Asbestos Fibres/ml of air	0.01								
<b>Asbestos Management Plan</b>									
23.	4	<p>The Proponent must prepare an Asbestos Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> <li>(a) be prepared by a suitably independent and qualified expert/s;</li> <li>(b) be submitted to the Secretary for approval within 3 months of approval of Modification 2;</li> <li>(c) be prepared in consultation with the Resources Regulator;</li> <li>(d) include a description of the measures and controls that would be implemented to minimise exposure risks and manage asbestos within the project area;</li> <li>(e) include an asbestos monitoring protocol for evaluating compliance with the asbestos impact assessment criterion in Table 1 that describes daily, weekly and monthly testing protocols;</li> <li>(f) include a protocol for the notification of monitoring results;</li> <li>(g) include a protocol for the investigation, notification and mitigation of identified exceedances of the assessment criterion; and</li> <li>(h) include a protocol to respond to incidents of human (personnel, neighbours or others) exposure to asbestos.</li> </ul> <p>The Proponent must implement the Asbestos Management Plan as approved by the Secretary.</p>	<p>Asbestos Management Plan had been prepared and approved by the Secretary (See previous report). Asbestos Management Plan updated following approval of Mod 2. Submitted to the Secretary on 17/07/19. No response from DPIE at this stage. Submitted to Resources Regulator 15/07/19. Feedback received via Email from Senior Mine Safety Officer (Resources Regulator) 24/07/19.</p>	Compliance					

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #																												
<b>NOISE</b>																																	
<b>Impact Assessment Criteria</b>																																	
24.	5	<p>The Proponent must ensure that the noise generated by the project does not exceed the noise impact assessment criteria in Table 2.</p> <p><i>Table 2: Noise impact assessment criteria dB(A) L<sub>Aeq</sub> (15min)</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Location</th> <th style="text-align: center;">Day</th> <th style="text-align: center;">Evening</th> <th style="text-align: center;">Night</th> </tr> </thead> <tbody> <tr> <td>"Hartley Cottage"</td> <td style="text-align: center;">35</td> <td style="text-align: center;">35</td> <td style="text-align: center;">35</td> </tr> <tr> <td>"Cadira Vale"</td> <td style="text-align: center;">35</td> <td style="text-align: center;">35</td> <td style="text-align: center;">35</td> </tr> <tr> <td>"Lilacime"</td> <td style="text-align: center;">35</td> <td style="text-align: center;">35</td> <td style="text-align: center;">35</td> </tr> <tr> <td>"Fairview"</td> <td style="text-align: center;">36</td> <td style="text-align: center;">35</td> <td style="text-align: center;">35</td> </tr> <tr> <td colspan="4"> </td> </tr> <tr> <td>All other privately owned land</td> <td style="text-align: center;">35</td> <td style="text-align: center;">35</td> <td style="text-align: center;">35</td> </tr> </tbody> </table> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>To interpret the locations referred to Table 1, see Figure 3 in Appendix 1.</li> <li>Noise generated by the project is to be measured in accordance with the relevant requirements, and exemptions (including certain meteorological conditions), of the NSW Industrial Noise Policy.</li> <li>The noise limits do not apply if the Proponent has an agreement with the relevant owner/s of these residences/land to generate higher noise levels, and the Proponent has advised the Department in writing of the terms of this agreement.</li> </ul>	Location	Day	Evening	Night	"Hartley Cottage"	35	35	35	"Cadira Vale"	35	35	35	"Lilacime"	35	35	35	"Fairview"	36	35	35					All other privately owned land	35	35	35	<p>No exceedances had been reported in 2017, 2018, and 2019.</p> <p>Noise Report March and June 2019 sighted.</p> <p>Noted Noise monitoring conducted 16/09/19.</p>	Compliance	
Location	Day	Evening	Night																														
"Hartley Cottage"	35	35	35																														
"Cadira Vale"	35	35	35																														
"Lilacime"	35	35	35																														
"Fairview"	36	35	35																														
All other privately owned land	35	35	35																														
<b>Operating Hours</b>																																	
25.	6	<p>The Proponent must comply with the operating hours in Table 3.</p> <p><i>Table 3: Operating hours</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Activity</th> <th style="text-align: left;">Day</th> <th style="text-align: left;">Time</th> </tr> </thead> <tbody> <tr> <td rowspan="4">All quarrying operations. Transportation off-site</td> <td>Monday – Friday during AEST (except Public Holidays)</td> <td>6.00 am to 6.00 pm</td> </tr> <tr> <td>Monday – Friday during AEDT (except Public Holidays)</td> <td>6.00 am to 8.00 pm</td> </tr> <tr> <td>Saturdays</td> <td>7.00 am to 1.00 pm</td> </tr> <tr> <td>Sundays and Public Holidays</td> <td>No activities</td> </tr> </tbody> </table>	Activity	Day	Time	All quarrying operations. Transportation off-site	Monday – Friday during AEST (except Public Holidays)	6.00 am to 6.00 pm	Monday – Friday during AEDT (except Public Holidays)	6.00 am to 8.00 pm	Saturdays	7.00 am to 1.00 pm	Sundays and Public Holidays	No activities	<p>No changes to site operating hours since previous audit. Previous audit reported that:</p> <p>"An extension to the hours for product despatch was approved on 10 September 2015 following negotiated agreements reached with surrounding landowners (in accordance with Project Approval 06_0193 Schedule 3 condition 6(a)).</p> <p>Letters were sent to owners of "Fairview", "Lilac Time",</p>	Compliance																	
Activity	Day	Time																															
All quarrying operations. Transportation off-site	Monday – Friday during AEST (except Public Holidays)	6.00 am to 6.00 pm																															
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	Sundays and Public Holidays	No activities																															

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<p>However, the Proponent may undertake:</p> <p>(a) transportation activities on and off-site outside of these hours (but only between hours up to and including 5.00 am and 10.00 pm, Monday to Saturday), if the Proponent has negotiated agreements to this effect with the owners of the following residences (whilst privately-owned) "Fairview", "Lilac Time", "Cadira Vale", "R1", "Hartley Cottage", "Quinton" and "Wheatfields", as shown in Figure 3 of Appendix 1, and the Proponent has advised the Department in writing of the terms of these agreements; and</p> <p>(b) maintenance activities at any time provided that the activities are not audible at any privately-owned residence.</p> <p><i>Note: This condition does not apply to delivery of material if that delivery is required by police or other authorities for safety reasons, and/or the operation or personnel or equipment are endangered. In such circumstances, notification is to be provided to EPA and the affected residents as soon as possible, or within a reasonable period in the case of emergency.</i></p>	<p>"Cadira Vale", "R1", "Hartley Cottage", "Quinton" and "Wheatfields" residences, seeking approval to extend the transport activities in accordance with Project Approval 06_0193 Schedule 3 condition 6(a). (Sent 12/08/2015)."</p> <p>Quarrying operations – 6.00am to 5.00pm (commencement and cessation of crushing).</p>		
<b>Noise Management</b>					
26.	7	<p>The Proponent must prepare a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <p>(c) be prepared in consultation with EPA, and be submitted to the Secretary for approval prior to the commencement of construction activities;</p> <p>(d) include:</p> <ul style="list-style-type: none"> <li>• a description of the measures that would be implemented to minimise noise emissions from the project, with particular focus on:</li> <li>• quarrying operations within 500 metres of residences on privately-owned land;</li> <li>• transportation activities; and</li> <li>• continual improvement of noise performance;</li> <li>• a noise monitoring protocol for evaluating compliance with the relevant noise limits in this approval;</li> <li>• a protocol for the investigation, notification and mitigation of identified exceedances of the relevant noise limits; and</li> <li>• a continual improvement program for investigating, implementing and reporting on reasonable and feasible measures to reduce noise generated by the project.</li> </ul>	<p>Noise Management Plan prepared for Mod 2 and submitted 17/07/19. Waiting on response from the Secretary.</p> <p><b>All requirements of the NMP had not been implemented. Specifically:</b></p> <ul style="list-style-type: none"> <li>• <b>The site induction did not include communication of all noise basic noise awareness training incorporating the requirements of Section 7 of the Noise Management Plan (N-01).</b></li> <li>• <b>Records were not available to verify that and sound power levels of the mobile equipment complied with the requirements of Section 10.6 of the Noise Management Plan.</b></li> </ul>	<b>Non-Compliance</b>	<b>02</b>

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #						
		The Proponent must implement the Noise Management Plan as approved by the Secretary.									
<b>BLASTING AND VIBRATION</b>											
<b>Airblast Overpressure Limits</b>											
27.	8	<p>The Proponent must ensure that the airblast overpressure level from blasting at the project does not exceed the criteria in Table 4 at any residence on privately-owned land.</p> <table border="1"> <caption>Table 4: Airblast overpressure impact assessment criteria</caption> <thead> <tr> <th>Airblast overpressure level (dB(Lin Peak))</th> <th>Allowable exceedance</th> </tr> </thead> <tbody> <tr> <td>115</td> <td>5% of the total number of blasts in a 12 month period</td> </tr> <tr> <td>120</td> <td>0%</td> </tr> </tbody> </table>	Airblast overpressure level (dB(Lin Peak))	Allowable exceedance	115	5% of the total number of blasts in a 12 month period	120	0%	<p>Records of blast monitoring for 2019 – <b>1 airblast overpressure level result in July 2019 of 119.2dB.</b> During overcast conditions.</p> <p>No exceedances in 2018, 2017 or 2016.</p> <p>No exceedance of the 120dB limit has occurred.</p>	<b>Non-Compliance</b>	<b>03</b>
Airblast overpressure level (dB(Lin Peak))	Allowable exceedance										
115	5% of the total number of blasts in a 12 month period										
120	0%										
<b>Ground Vibration Impact Assessment Criteria</b>											
28.	9	<p>The Proponent must ensure that the ground vibration level from blasting at the project does not exceed the levels in Table 5 at any residence on privately-owned land.</p> <table border="1"> <caption>Table 5: Ground vibration impact assessment criteria</caption> <thead> <tr> <th>Peak particle velocity (mm/s)</th> <th>Allowable exceedance</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>5% of the total number of blasts in a 12 month period</td> </tr> <tr> <td>10</td> <td>0%</td> </tr> </tbody> </table>	Peak particle velocity (mm/s)	Allowable exceedance	5	5% of the total number of blasts in a 12 month period	10	0%	<p>No exceedance of the ground vibration level criteria has been recorded.</p> <p>Maximum levels recorded each year were:                  2017 4.96                  2018 Max 4.93 June 2018                  2019 Max 13.77 July 2019</p>	Compliance	
Peak particle velocity (mm/s)	Allowable exceedance										
5	5% of the total number of blasts in a 12 month period										
10	0%										
<b>Blasting Hours and Frequency</b>											
29.	10	The Proponent must carry out blasting on site only between 9.00 am and 3.00 pm Monday to Friday. No blasting is allowed on Saturdays, Sundays and Public Holidays.	Records showed that blasting had been conducted between 9am and 3pm. E.g.: 8/07/19 – 12.55pm 10/04/19 – 1.26pm 25/03/19 – 12.32pm	Compliance							
30.	11	The Proponent may carry out on the site a maximum of: (a) 2 blasts a day; and (b) (b) 5 blasts a week, averaged over a calendar year.	Blasting carried out approximately 1/month. e.g. 8/07/19, 7/06/19, 23/05/19, 3/05/19, 10/04/19	Compliance							

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>Operating Conditions</b>					
31.	12	<p>During quarrying operations on site, the Proponent must implement best blasting practice to:</p> <ul style="list-style-type: none"> <li>(a) conduct blasting operations in accordance with AS 2187.2 – Explosive Storage, Transport and Use;</li> <li>(b) minimise fly-rock and dust and fume emissions from blasting;</li> <li>(c) protect travellers on the Mitchell Highway;</li> <li>(d) protect the safety of people and livestock and the serviceability of private property and public infrastructure; to the satisfaction of the Secretary.</li> </ul>	<p>Blasting contractor engaged to conduct blasting – Orica Ltd. Blast Management Plan developed.</p> <p>No incidents have occurred due to fly-rock or fume emissions from the site.</p>	Compliance	
<b>Blast Management Plan</b>					
32.	13	<p>The Proponent must prepare a Blast Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> <li>(a) be submitted to the Secretary for approval prior to the commencement of blasting activities; and</li> <li>(b) include:                             <ul style="list-style-type: none"> <li>• a Blast Monitoring Program; and</li> <li>• measures to implement the requirements of condition 12.</li> </ul> </li> </ul> <p>The Proponent must implement the Blast Management Plan as approved by the Secretary.</p>	<p>Blast Management Plan prepared following MOD 2 approval and submitted to Secretary on 17/07/19.</p> <p>Includes a blast monitoring program (Section 11) and management measures (Section 9).</p>	Compliance	
<b>Blast Monitoring Program</b>					
33.	14	<p>The Proponent must prepare a Blast Monitoring Program for the project to the satisfaction of the Secretary. This program must:</p> <ul style="list-style-type: none"> <li>(a) be submitted to the Director General for approval prior to the commencement of blasting activities; and</li> <li>(b) include a protocol for evaluating blasting impacts on, and demonstrating compliance with, the blasting criteria in this approval for all privately-owned residences and other structures.</li> </ul> <p>The Proponent must implement the Blast Monitoring Plan as approved by the Secretary.</p>	<p>Blast monitoring program included in Section 11 of the BMP. Protocol for evaluating blasting impacts included in the Blast Management Plan – Section 11.</p> <p>Blast Management Program includes the Blast Monitoring Program, which had been submitted to the Secretary. Records were provided to demonstrate that the blast monitoring program had been implemented.</p>	Compliance	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>Public Notice</b>					
34.	15	<p>The Proponent must: the development does not result in any queuing on the public road network unless otherwise approved by Council;</p> <ul style="list-style-type: none"> <li>d) operate a blasting hotline and advertise the hotline number in a local newspaper at least twice a year, or operate an alternate system agreed to by the Secretary, to enable the public to get up-to-date information on the blasting schedule;</li> <li>e) publish an up-to-date blasting schedule on its website; and</li> <li>f) notify the landowner/occupier of any residence within 2 kilometres of the site about the blasting schedule, blasting hotline and its website, to the satisfaction of the Secretary.</li> </ul>	<p>No stopping of traffic has been required for quarry operations.</p> <p>Blasting number and schedule included on the quarry website.</p> <p>e.g. Blast Notification Patanga 23 May 2019; Blast Notification Cadira and Hartley 3/09/19.</p> <p>Noted that notifications were generally send via Email. Records of notifications sighted from 2016 to September 2019.</p> <p><b>Unable to verify that the blasting hotline had been advertised twice yearly in the local newspaper or via an alternate system agreed to by the secretary.</b></p>	<b>Non-Compliance</b>	<b>04</b>
<b>Property Inspections</b>					
35.	16	<p>At least 2 months prior to the commencement of blasting operations at the quarry, the Proponent must advise the owners of privately-owned land within 2 kilometres of the proposed quarry, that they are entitled to a structural property inspection to establish the baseline condition of buildings and other structures on their property.</p> <p>If the Proponent receives a written request for a structural property inspection from any such landowner, the Proponent must:</p> <ul style="list-style-type: none"> <li>• within 2 months of receiving this request, commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to inspect the condition of any building or structure on the land, and recommend measures to mitigate any potential blasting impacts; and</li> <li>• give the landowner a copy of the property inspection report.</li> </ul>	<p>Pre-commencement property inspections verified previous audit.</p> <p>No written requests for a structural property inspection have been received.</p> <p>Reported that a verbal request had been received, for which the complainant was asked to submit a written request (Verbally and via Email on 16/09/19). No written request had been received at the time of audit.</p>	Compliance	
<b>Property Investigations</b>					
36.	17	<p>If any landowner of privately-owned land within 2 kilometres of blasting operations, or any other landowner nominated by the Secretary, claims that buildings and/or other structures on his/her land have been damaged as a result of blasting at the project after the date of this approval, the Proponent must within 2 months of receiving this claim:</p>	<p>No complaints regarding damage from blasting have been received.</p>	Not Triggered	



AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #																													
		(a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to investigate the claim; and  (b) give the landowner a copy of the property investigation report.  If the independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Proponent must repair the damage to the satisfaction of the Secretary.  If the Proponent or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Secretary for resolution.																																
<b>AIR QUALITY</b>																																		
<b>Impact Assessment Criteria</b>																																		
37.	18	The Proponent must ensure that the dust emissions generated by the project do not cause additional exceedances of the criteria listed in Tables 6, 7 and 8 at any residence on privately-owned land, or on more than 25 percent of any privately-owned land.  <i>Table 6: Long-term criteria for particulate matter</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>Criterion</th> </tr> </thead> <tbody> <tr> <td>Particulate matter &lt; 10 µm (PM<sub>10</sub>)</td> <td>Annual</td> <td><sup>a, c</sup> 25 µg/m<sup>3</sup></td> </tr> <tr> <td>Particulate matter &lt; 2.5 µm (PM<sub>2.5</sub>)</td> <td>Annual</td> <td><sup>a, c</sup> 8 µg/m<sup>3</sup></td> </tr> <tr> <td>Total suspended particulate (TSP) matter</td> <td>Annual</td> <td><sup>a, c</sup> 90 µg/m<sup>3</sup></td> </tr> </tbody> </table> <i>Table 7: Short-term criterion for particulate matter</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>Criterion</th> </tr> </thead> <tbody> <tr> <td>Particulate matter &lt; 10 µm (PM<sub>10</sub>)</td> <td>24 hour</td> <td><sup>b</sup> 50 µg/m<sup>3</sup></td> </tr> <tr> <td>Particulate matter &lt; 2.5 µm (PM<sub>2.5</sub>)</td> <td>24 hour</td> <td><sup>b</sup> 25 µg/m<sup>3</sup></td> </tr> </tbody> </table> <i>Table 8: Long-term criteria for deposited dust</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th colspan="2">Criterion</th> </tr> </thead> <tbody> <tr> <td><sup>d</sup> Deposited dust</td> <td>Annual</td> <td><sup>b</sup> 2 g/m<sup>2</sup>/month</td> <td><sup>a</sup> 4 g/m<sup>2</sup>/month</td> </tr> </tbody> </table> Notes:	Pollutant	Averaging period	Criterion	Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	<sup>a, c</sup> 25 µg/m <sup>3</sup>	Particulate matter < 2.5 µm (PM <sub>2.5</sub> )	Annual	<sup>a, c</sup> 8 µg/m <sup>3</sup>	Total suspended particulate (TSP) matter	Annual	<sup>a, c</sup> 90 µg/m <sup>3</sup>	Pollutant	Averaging period	Criterion	Particulate matter < 10 µm (PM <sub>10</sub> )	24 hour	<sup>b</sup> 50 µg/m <sup>3</sup>	Particulate matter < 2.5 µm (PM <sub>2.5</sub> )	24 hour	<sup>b</sup> 25 µg/m <sup>3</sup>	Pollutant	Averaging period	Criterion		<sup>d</sup> Deposited dust	Annual	<sup>b</sup> 2 g/m <sup>2</sup> /month	<sup>a</sup> 4 g/m <sup>2</sup> /month	Dust deposition monitoring conducted at 4 sites TSP/PM <sub>10</sub> monitoring using Dustrak on a continuous basis at one site.  Records show that dust deposition levels of greater than 4g/m <sup>2</sup> /mth have been recorded. However, the annual average had not exceeded 4g/m <sup>2</sup> /mth.  Annual average 2018 showed all sites were < 4g/m <sup>2</sup> /mth.	Compliance	
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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<p>a. Total impact (i.e. incremental increase in concentrations due to the project plus background concentrations due to all other sources).</p> <p>b. Incremental impact (i.e. incremental increase in concentrations due to the project on its own).</p> <p>c. Excludes extraordinary events such as bushfires, prescribed burning, dust storms, fire incidents or any other activity agreed by the Secretary.</p> <p>d. 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.</p>			
<b>Operating Conditions</b>					
38.	19	The Proponent must ensure any visible air pollution generated by the project is assessed regularly, and that quarrying operations are relocated, modified, and/or stopped as required to minimise air quality impacts on privately-owned land, to the satisfaction of the Secretary.	Visual monitoring of dust emissions reported to be conducted by the Quarry Manager and supervisor. No dust complaints have been received. Reported that the site has been continually reviewing dust management measures on site in order to minimise dust emissions.	Compliance	
<b>Air Quality Monitoring</b>					
39.	20	<p>The Proponent must prepare an Air Quality Monitoring Program for the project to the satisfaction of the Secretary. This program must:</p> <p>(a) be prepared in consultation with EPA, and be submitted to the Secretary for approval prior to the commencement of construction activities; and</p> <p>(b) include details of how the air quality performance of the project will be monitored, and include a protocol for evaluating compliance with the relevant air quality criteria in this approval.</p> <p>The Proponent must implement the Air Quality Monitoring Plan as approved by the Secretary.</p>	Air Quality Monitoring Program prepared and submitted to the Secretary on 17/07/19. Evidence of consultation included in Section 3. Section 11 – Air Quality Monitoring Section 12 – Evaluation of Compliance	Compliance	
<b>METEOROLOGICAL MONITORING</b>					
40.	21	During the life of the project, the Proponent must ensure that there is a suitable meteorological station in the vicinity of the site that:	Weather Station installed on site. Meteorological monitoring occurs at an automated station located to the east of the site access road. The meteorological	Compliance	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		(a) complies with the requirements in the Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales (DEC, 2007); and  (b) (b) is capable of measuring meteorological conditions in accordance with the NSW Industrial Noise Policy (EPA, 2000).	station is calibrated and tested by Kenelec Scientific and operated in accordance with: - Approved Methods for Sampling of Air Pollutants in New South Wales guideline. - AS 2923:1987 Ambient air - Guide for measurement of horizontal wind for Air Quality Applications; - USEPA (2000) EPA 454/R-99-005 Meteorological monitoring guidance for regulatory modelling applications  Calibration maintenance on a six monthly cycle – conducted 15/05/19 by Cbased Environmental Pty Ltd. Weather Station Field Check report sighted.		
<b>SOIL AND WATER</b>					
<b>Water Supply</b>					
41.	22	The Proponent must ensure that it has sufficient water for all stages of the project, and if necessary, adjust the scale of operations to match its water supply.	Water is obtained from storage dams on site and groundwater bore, which has provided sufficient water to meet demand.	Compliance	
<b>Pollution of Waters</b>					
42.	23	Except as may be expressly provided for by an EPL, the Proponent must comply with section 120 of the <i>Protection of the Environment Operations Act 1997</i> during the carrying out of the project.	Monitoring records demonstrate compliance with section 120 of the <i>Protection of the Environment Operations Act 1997</i> .	Compliance	
<b>Wastewater Treatment</b>					
43.	24	The Proponent must manage on-site sewage to the satisfaction of Council and EPA. The facility must comply with the requirements of the <i>Environment and Health Protection Guidelines – On-site Sewage Management for Single Households (1998)</i> , or most recent version of the relevant guidelines.	Verified previous audit. On-site sewage disposal through transpiration system. Inspection of the transpiration area found the system appeared to be working effectively.	Compliance	
<b>Soil and Water Management</b>					
44.	25	The Proponent must prepare a Soil and Water Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with EPA and DoI L&W, and be submitted to the Secretary for approval prior to the commencement of construction activities; and	Soil and Water Management Plan prepared and submitted to the Secretary on 17/07/19. Record of consultation included in Section 3 Water Balance – Section 8; Erosion and Sediment Control Plan – Section 9	Compliance	

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		(b) include a: <ul style="list-style-type: none"> <li>• Site Water Balance;</li> <li>• Erosion and Sediment Control Plan;</li> <li>• Surface Water Monitoring Program; and</li> <li>• Ground Water Monitoring Program.</li> </ul> The Proponent must implement the Soil and Water Management Plan as approved by the Secretary. <i>Note: The Department accepts that the initial Soil and Water Management Plan may not include a detailed Site Water Balance. However, the detailed Site Water Balance must be approved prior to the commencement of any processing activities.</i>	Surface Water Monitoring Program – Section 10 Ground Water Monitoring Program – Section 11		
45.	26	The Site Water Balance must: <ul style="list-style-type: none"> <li>(a) include details of:                             <ul style="list-style-type: none"> <li>• sources and security of water supply;</li> <li>• water use on site;</li> <li>• water management on site;</li> <li>• any off-site water transfers;</li> <li>• reporting procedures; and</li> </ul> </li> <li>(b) investigate and describe measures to minimise water use by the project.</li> </ul>	The Site Water Balance includes details of: <ul style="list-style-type: none"> <li>• sources and security of water supply – section 8.7;</li> <li>• water use on site – section 8.5;</li> <li>• water management on site –section 8.3;</li> <li>• any off-site water transfers –section 8.6;</li> <li>• reporting procedures section 8.9; and</li> </ul> (b) measures to minimise water use by the project are described in Site Water Balance, section 8.8.	Compliance	
46.	27	The Erosion and Sediment Control Plan must: <ul style="list-style-type: none"> <li>(a) be consistent with the requirements of <i>Managing Urban Stormwater: Soils and Construction, Volume 2E Mines and Quarries</i>, (DECCW), or most recent version of the relevant guidelines;</li> <li>(b) identify activities that could cause soil erosion and generate sediment;</li> <li>(c) describe measures to minimise soil erosion and the potential for the transport of sediment off site;</li> <li>(d) describe the location, function, and capacity of erosion and sediment control structures; and</li> <li>(e) describe what measures would be implemented to maintain the structures over time.</li> </ul>	The Erosion and Sediment Control Plan was included in Appendix 1 of the SWMP.  Contents verified previous audit.	Compliance	
47.	28	The Surface Water Monitoring Program must include: <ul style="list-style-type: none"> <li>(a) baseline data on surface water quality, where available;</li> <li>(b) surface water impact assessment criteria;</li> <li>(c) a program to monitor surface water quality (particularly in the project’s sediment dam); and</li> <li>(d) a protocol for the investigation, notification and mitigation of identified exceedances of the surface water impact assessment criteria.</li> </ul>	<ul style="list-style-type: none"> <li>(a) Section 10.2;</li> <li>(b) Section 10.3;</li> <li>(c) Section 10.4;</li> <li>(d) Section 10.5.</li> </ul>	Compliance	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #						
48.	29	The Ground Water Monitoring Program must include: <ul style="list-style-type: none"> <li>(a) baseline data on ground water levels and quality;</li> <li>(b) groundwater impact assessment criteria, including trigger levels for investigating any potentially adverse groundwater impacts;</li> <li>(c) a program to monitor groundwater levels and quality; and</li> <li>(d) a protocol for the investigation and notification of identified exceedances of the ground water impact assessment criteria.</li> </ul>	<ul style="list-style-type: none"> <li>(a) Section 11.2;</li> <li>(b) Section 11.3;</li> <li>(c) Section 11.4, 11.5 and 11.6;</li> <li>(d) Section 11.7</li> </ul>	Compliance							
<b>REHABILITATION AND LANDSCAPE MANAGEMENT</b>											
<b>Rehabilitation</b>											
49.	30	The Proponent must progressively rehabilitate the site in a manner that is generally consistent with the final landform depicted in Figure 4 of Appendix 1, to the satisfaction of the Secretary.	Rehabilitation has been conducted on visual bunds.	Compliance							
<b>Biodiversity Credits Required</b>											
50.	30A	Within 6 months of the approval of Modification 2, or other timeframe agreed by the Secretary, the Proponent must retire the biodiversity credits specified in Table 9 below. <i>Table 9: Biodiversity credit requirements</i> <table border="1" data-bbox="369 954 1070 1082"> <thead> <tr> <th>Credit Type</th> <th>Credits Required</th> </tr> </thead> <tbody> <tr> <td>Ecosystem Credit</td> <td></td> </tr> <tr> <td>PCT275 - Herbaceous White Box- Apple Box valley woodland of the NSW central western slopes</td> <td>17</td> </tr> </tbody> </table> <p><i>Note: The credits in Table 9 were calculated in accordance with Framework for Biodiversity Assessment of the NSW Biodiversity Offset Policy for Major Projects (OEH, 2014) and may need to be converted to reasonably equivalent 'biodiversity credits', within the meaning of the Biodiversity Conservation Act 2016, to facilitate retirement.</i></p> The retirement of the biodiversity credits specified in Table 9 must be carried out in accordance with the Biodiversity Offsets Scheme of the <i>Biodiversity Conservation Act 2016</i> .	Credit Type	Credits Required	Ecosystem Credit		PCT275 - Herbaceous White Box- Apple Box valley woodland of the NSW central western slopes	17	Due October 2019. Reported that the Graduate Environmental Planning and Compliance Coordinator was in discussion with Niche Environment and Heritage to acquire and retire the credits.	Compliance	
Credit Type	Credits Required										
Ecosystem Credit											
PCT275 - Herbaceous White Box- Apple Box valley woodland of the NSW central western slopes	17										

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<b>Landscape Management Plan</b>					
51.	31	<p>Within 3 months of approval of Modification 2, the Proponent must prepare a Landscape Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> <li>(c) be prepared in consultation with OEH, DoI L&amp;W and Council, and be submitted to the Secretary prior to the commencement of quarrying operations; and</li> <li>(d) include a:                             <ul style="list-style-type: none"> <li>• Rehabilitation and Biodiversity Management Plan; and</li> <li>• Long-Term Management Strategy.</li> </ul> </li> </ul> <p>The Proponent must implement the Landscape Management Plan as approved by the Secretary.</p> <p><i>Note: The Department accepts that the initial Landscape Management Plan may not include the detailed Long-Term Management Strategy. However, a conceptual strategy must be included in the initial plan, along with a timetable for augmentation of the strategy with each subsequent review of the plan.</i></p>	<p>Landscape Management Plan (LMP) prepared and submitted to the Secretary on 17/07/19.</p> <p>Evidence of consultation with DPIE, OEH Department of Industry Land and Water, and Cabonne Council provided in Section 3.</p> <p><b>Evidence of implementation of the following requirements of the LMP was not available:</b></p> <ul style="list-style-type: none"> <li>• <b>quarterly visual inspections of weed infestation and presence within the Quarry Site;</b></li> <li>• <b>Should the quarterly visual inspections identify weed infestations, additional weed control programs will be undertaken;</b></li> <li>• <b>Implement a twice annual weed treatment and reporting program</b></li> </ul>	<b>Non-Compliance</b>	<b>05</b>
52.	32	<p>The Rehabilitation and Biodiversity Management Plan must include:</p> <ul style="list-style-type: none"> <li>(a) the objectives for the site rehabilitation and site landscaping;</li> <li>(b) a description of the short, medium, and long-term measures that would be implemented to rehabilitate and landscape the site;                             <ul style="list-style-type: none"> <li>(b1) a description of the short, medium, and long-term measures to be undertaken to:                                     <ul style="list-style-type: none"> <li>(i) retire the credits in Table 9;</li> <li>(ii) manage any remnant vegetation and fauna habitat on the site and in any offset areas;</li> </ul> </li> <li>(b2) a description of the measures that would be implemented to establish and maintain the Western Boundary Visual Screen to integrate with surrounding vegetation and align with Plant Community Type 275;</li> </ul> </li> <li>(c) detailed performance and completion criteria for biodiversity management actions, site rehabilitation and site landscaping;</li> <li>(d) a detailed description of the measures that would be implemented over the next 3 years, including the procedures for:                             <ul style="list-style-type: none"> <li>• progressively rehabilitating disturbed areas;</li> </ul> </li> </ul>	<p>Rehabilitation and Biodiversity Management Plan included in Section 10 of the Landscape Management Plan.</p> <p>Contents verified previous audit.</p>	Compliance	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<ul style="list-style-type: none"> <li>landscaping the site to minimise visual impacts;</li> <li>protecting vegetation and soil outside the disturbance areas;</li> <li>undertaking pre-clearance surveys;</li> <li>salvaging and reusing material from the site for habitat enhancement;</li> <li>managing impacts of on fauna;</li> <li>conserving and reusing topsoil;</li> <li>controlling weeds and feral pests;</li> <li>controlling access; and</li> <li>bushfire management;</li> </ul> <p>(e) a program to monitor the effectiveness of these measures, and progress against the performance and completion criteria;</p> <p>(f) a description of the potential risks to successful rehabilitation, and a description of the contingency measures that would be implemented to mitigate these risks; and</p> <p>(g) details of who would be responsible for monitoring, reviewing, and implementing the plan.</p>			
53.	33	<p>The Long-Term Management Strategy must:</p> <ul style="list-style-type: none"> <li>define the objectives and criteria for quarry closure and post-extraction management;</li> <li>investigate and/or describe options for the future use of the site;</li> <li>describe the measures that would be implemented to minimise or manage the ongoing environmental effects of the project; and</li> <li>describe how the performance of these measures would be monitored over time.</li> </ul>	<p>Included in LMP - Section 11 - Long-Term Management Strategy</p> <ul style="list-style-type: none"> <li>section 5 outlines objectives and criteria for quarry closure and post-extraction management;</li> <li>section 11.5 discusses options for the future use of the site ;</li> <li>section 10.3 and 11.3 describe the measures that would be implemented to minimise or manage the ongoing environmental effects of the project; and</li> <li>section 12 discusses how performance of these measures would be monitored over time.</li> </ul>	Compliance	
<b>Rehabilitation Bond</b>					
54.	34	<p>Prior to commencing quarrying operations, the Proponent must lodge a rehabilitation bond for the project with the Secretary. The sum of the bond must be calculated at \$2.50/m<sup>2</sup> for the area to be disturbed in the first 3 years of quarrying operations, to the satisfaction of the Secretary.</p> <p>Notes:</p> <ul style="list-style-type: none"> <li><i>If the rehabilitation and revegetation works are completed to the satisfaction of the Secretary, the Secretary will release the rehabilitation bond.</i></li> </ul>	Verified previous audit. Completed in 2013.	Compliance	

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		<ul style="list-style-type: none"> <li>If the rehabilitation and revegetation works are not completed to the satisfaction of the Secretary, the Secretary will call in all or part of the rehabilitation bond, and arrange for the satisfactory completion of the relevant works.</li> </ul>			
55.	35	<p>Within 3 months of each Independent Environmental Audit (see condition 8 of schedule 5), the Proponent must review, and if necessary revise, the sum of the rehabilitation bond to the satisfaction of the Secretary. This review must consider:</p> <ul style="list-style-type: none"> <li>the effects of inflation;</li> <li>the area proposed to be disturbed in the next 3 years and any changes to the total area of disturbance; and</li> <li>the performance of the rehabilitation to date.</li> </ul>	Approval of rehabilitation bond provided 28/04/2017.	Compliance	
<b>HERITAGE</b>					
<b>Aboriginal Cultural Heritage Management Plan</b>					
56.	36	<p>The Proponent must prepare an Aboriginal Cultural Heritage Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ol style="list-style-type: none"> <li>be prepared in consultation with OEH and Registered Aboriginal Parties, and be submitted to the Secretary for approval prior to any ground disturbance; and</li> <li>be prepared by suitably qualified and experienced person/s;</li> <li>be submitted to the Secretary for approval within 3 months of approval of Modification 2;</li> <li>include a protocol for monitoring ground disturbance associated with construction activities or quarrying operations;</li> <li>describe the measures to be implemented on the site or within any offset area to:                             <ol style="list-style-type: none"> <li>ensure all workers on the site receive suitable Aboriginal cultural heritage inductions prior to carrying out any activities which may cause impacts to Aboriginal objects or Aboriginal places, and that suitable records are kept of these inductions;</li> <li>protect, monitor and manage Aboriginal objects and Aboriginal places identified (including any proposed archaeological investigations and salvage measures);</li> <li>protect Aboriginal objects and Aboriginal places located outside the approved disturbance area from impacts of the development;</li> </ol> </li> </ol>	<p>The Aboriginal Cultural Heritage Management Plan was prepared to satisfy condition 36 and approved by the DP&amp;I on 20 February 2013. Updated following MOD 2 approval and resubmitted 17/07/19.</p> <ol style="list-style-type: none"> <li>Consultation records included in Section 3;</li> <li>Prepared by R.W. Corkery &amp;CO.</li> <li>Submitted 17/07/19;</li> <li>Section 9;</li> <li>Section 8 and Section 9</li> </ol> <p><b>Site induction program does not include site-specific Aboriginal cultural heritage details.</b></p>	<b>Non-Compliance</b>	<b>01</b>



AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		(iv) manage any new Aboriginal objects or Aboriginal places discovered during the life of the project; (v) maintain and manage reasonable access for relevant Aboriginal stakeholders to Aboriginal objects and Aboriginal places (outside of the approved disturbance area); and (vi) facilitate ongoing consultation and involvement of Registered Aboriginal Parties in the conservation and management of Aboriginal cultural heritage on the site. The Proponent must implement the Aboriginal Cultural Heritage Management Plan as approved by the Secretary.			
57.	36A	If human remains are discovered on site, then all work surrounding the area must cease, and the area must be secured. The Proponent must immediately notify NSW Police and OEH, and work must not recommence in the area until authorised by NSW Police and OEH.		Not Triggered	
58.	36B	If any Aboriginal object or Aboriginal place is discovered on the site: (a) all work in the immediate vicinity of the object or place must cease immediately; (b) a 10 metre buffer area around the object or place must be cordoned off; and (c) OEH must be contacted immediately.		Not Triggered	
59.		Work in the immediate vicinity may only recommence if: (a) the potential Aboriginal object or Aboriginal place is confirmed by OEH upon consultation with the Registered Aboriginal Parties not to be an Aboriginal object or Aboriginal Place; or (b) the Aboriginal Cultural Heritage Management Plan is revised to include the Aboriginal object or Aboriginal place and appropriate measures in respect of it, to the satisfaction of the Secretary; or (c) the Secretary is satisfied as to the measures to be implemented in respect of the Aboriginal object or Aboriginal place and makes a written direction in that regard.		Not Triggered	

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<b>TRAFFIC AND TRANSPORT</b>					
<b>Road Haulage</b>					
60.	37	Prior to transporting any extractive material from the site, the Proponent must ensure that the intersection of the site access road and the Mitchell Highway is constructed to a 'Type CHR Intersection Treatment', to the satisfaction of the RMS and the Secretary, or as otherwise accepted by the Secretary. The road works must be constructed in accordance with the relevant RMS or AUSTROADS standards, and signposted, marked and lit in accordance with AS:1742 – Manual of Uniform Traffic Control Devices.	Verified previous audit. Completed 2013.	Compliance	
61.	38	The Proponent must ensure that: <ul style="list-style-type: none"> <li>(a) the site access road is sealed between the Mitchell Highway and the infrastructure area;</li> <li>(b) shaker grids are installed at the boundary of the weighbridge and stockpile area;</li> <li>(c) all loaded vehicles entering or leaving the site are covered;</li> <li>(d) all loaded vehicles leaving the site are cleaned of materials that may fall on the road, before they leave the site; and</li> <li>(e) take all reasonable steps to minimise traffic safety issues and disruption to local road users.</li> </ul>	Sign installed reminding drivers to cover loads. Checked at weighbridge prior to departure. All vehicles sighted had loads covered. Self cleaning tarps installed.  Noted that the site road to the entry allowed for material to fall off prior to entering the road network.	Compliance	
<b>Road Safety</b>					
62.	38A	Within 6 months of approval of Modification 2, the Proponent must undertake a Road Safety and Condition Audit for the project, to the satisfaction of the Secretary. This audit must: <ul style="list-style-type: none"> <li>(a) be prepared by a suitably independent and qualified expert/s;</li> <li>(b) be prepared in consultation with RMS;</li> <li>(c) assess the safety, performance and condition of the site access road/ Mitchell Highway intersection based on current use and 10 year forecast SIDRA modelling; and</li> <li>(d) identify any measures that are required to comply with relevant Austroad standards or other relevant RMS requirements.</li> </ul>	Road Safety and Condition audit completed by Transport and Urban Planning Pty Ltd.  Conducted 27 and 29/08/19 by 2 level 3 Road Safety auditors.  Draft report available. Awaiting response from RMS.	Compliance	

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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
63.	38B	Within 12 months of completing the Road Safety and Condition Audit or as otherwise agreed with RMS, the Proponent must undertake and complete any road works recommended in the Audit, to the satisfaction of RMS. If there is a dispute about the implementation of these measures, then the Proponent may refer the matter to the Secretary for resolution.		Not Triggered	
64.	38C	<p>The Proponent must prepare a Traffic Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> <li>(a) be prepared by suitably qualified and experienced person/s;</li> <li>(b) be submitted to the Secretary for approval within 3 months of approval of Modification 2;</li> <li>(c) be prepared in consultation with RMS and Council;</li> <li>(d) include details of all transport routes and traffic types to be used for project-related traffic;</li> <li>(e) describe the processes in place for the control of truck movements entering and exiting the site;</li> <li>(f) include details of the measures to be implemented to minimise traffic safety issues and disruption to local road users, including minimising potential for conflict with school buses and stock movements;</li> <li>(g) include a Drivers' Code of Conduct that includes procedures to ensure that drivers:                             <ul style="list-style-type: none"> <li>(i) adhere to posted speed limits or other required travelling speeds;</li> <li>(ii) adhere to designated transport routes;</li> <li>(iii) implement safe and quiet driving practices; and</li> <li>(iv) describe the measures to be put in place to ensure compliance with the Drivers' Code of Conduct; and</li> </ul> </li> <li>(h) propose measures to minimise the transmission of dust and tracking of material onto the surface of public roads from vehicles exiting the site.</li> </ul> <p>The Proponent must implement the Traffic Management Plan as approved by the Secretary.</p>	<p>Traffic Management Plan (V2, July 2019) prepared by Intersect Traffic. Submitted to Secretary 17/07/19.</p> <ul style="list-style-type: none"> <li>(c) - Consultation included in Section 5</li> <li>(d) - Section 1.4</li> <li>(e) – Section 1.5, 1.6</li> <li>(f) – Section 2</li> <li>(g) – Section 2</li> <li>(h) – Section 4</li> </ul>	Compliance	
<b>Parking</b>					
65.	39	The Proponent must provide sufficient parking on-site for all project-related traffic, in accordance with Council's parking codes.	18 car parking spaces at office plus 16 spaces at the workshop, including 3 disabled spaces provided. Heavy vehicle parking provided for approximately 10 vehicles (8 truck+ 2 for b double parking required.	Compliance	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>VISUAL</b>					
<b>Visual Amenity</b>					
66.	40	The Proponent must minimise the visual impacts of the project to the satisfaction of the Secretary.	Visual screen/ bund being established in accordance with LMP.	Compliance	
67.	40A	Within 6 months of the approval of Modification 2, the Proponent must establish the Western Boundary Visual Screen, as shown in Figure 1 of Appendix 1. The Proponent must maintain the visual screen for the life of the project.	Western boundary visual screen as identified in Figure 1 of Appendix 1 has been completed. Work was progressing on completing the proposed vegetation screen as identified in Figure 1 of Appendix 1.	Compliance	
<b>Lighting Emissions</b>					
68.	41	The Proponent must: (a) take all practicable measures to mitigate off-site lighting impacts from the project; and ensure that all external lighting associated with the project complies with <i>Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting</i> , to the satisfaction of the Secretary.	Since commencement of quarrying operations, lighting is on between 5.00pm and 7.00pm and again from 5.00am to 7.00am, controlled by automatic timers, and on for safety purposes. No complaints related to lighting have been received since 2016.	Compliance	
<b>Advertising</b>					
69.	42	The Proponent must not erect or display any advertising structure(s) or signs on the site without the written approval of the Secretary. <i>Note: This does not include traffic management, safety or environmental signs.</i>	No advertising signs erected or displayed.	Not Triggered	
<b>WASTE MANAGEMENT</b>					
<b>Waste Minimisation</b>					
70.	43	The Proponent must minimise the amount of waste generated by the project to the satisfaction of the Secretary.	General waste is placed within skip bins that are serviced by a licensed waste contractor. Waste hydrocarbons generated during equipment for safety purposes is stored and removed from the site by a licensed waste contractor. Sewage is disposed of on-site via an onsite septic system.	Compliance	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>EMERGENCY AND HAZARDS MANAGEMENT</b>					
<b>Dangerous Goods</b>					
71.	44	The Proponent must ensure that the storage, handling, and transport of fuels and dangerous goods are conducted in accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the Dangerous Goods Code.	<p>Diesel was stored in bulk double bunded container on site. Chemicals stored on bunded pallets in designated shed.</p> 	Compliance	
<b>Safety</b>					
72.	45	The Proponent must secure the project to ensure public safety, to the satisfaction of the Executive Director, Mineral Resources.	<p>The East Guyong Quarry property is fully fenced to restrict public access. Safety management on the site is in accordance with the requirements of the DRE Mines Inspectorate requirements (e.g. visitor inductions, restricted access to work areas).</p>	Compliance	
<b>Bushfire Management</b>					
73.	46	<p>The Proponent must:</p> <ul style="list-style-type: none"> <li>(a) ensure that the project is suitably equipped to respond to any fires on-site;</li> <li>(a1) provide for asset protection in accordance with the relevant requirements in the Planning for Bushfire Protection (RFS, 2006) guideline; and</li> <li>(b) assist the rural fire service and emergency services as much as possible if there is a fire on-site.</li> </ul>	<p>Certificate of Compliance – Bushfire Management obtained 21/01/2019 by Safety Compliance Resources Pty Ltd. A Bushfire response procedure for the site is a subsection of the Hanson Emergency Management Plan. This Plan outlines procedures to be implemented in the event of a bushfire within or surrounding the Site.</p> <p>The water cart used on site has water capacity to respond to any minor fires within the East Guyong site (water cannon and hose). Any major fire would be responded to by the RFS with assistance provided by East Guyong quarry personnel as required.</p>	Compliance	

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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>PRODUCTION DATA</b>					
74.	47	The Proponent must: (a) provide annual production data to DRG using the standard form for that purpose; and (b) include a copy of this data in the Annual Review.	Verified - October 2018; 22/10/2018 (375,599T extracted)	Compliance	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>- ADDITIONAL PROCEDURES</b>					
<b>NOTIFICATION OF LANDOWNERS</b>					
75.	1	Within 3 months of this approval, the Proponent must notify, in writing, the landowners of all residences located within one kilometre of any of the project site boundaries of their right to request monitoring in accordance with condition 3 below.	Verified previous audit.	Compliance	
76.	2	If the results of the monitoring required in Schedule 3 identify that the impacts generated by the project on site are greater than the relevant impact assessment criteria, and there is no negotiated agreement in place to allow the impact, then within 2 weeks of obtaining the monitoring results the Proponent must: (a) notify the Secretary, the affected landowners and tenants (including tenants of quarry-owned properties) accordingly, and provide monitoring results to each of these parties until the results show that the project is complying with the relevant criteria in Schedule 3; and (b) in the case of exceedances of the relevant air quality criteria, send the affected landowners and tenants (including tenants of mine-owned properties) a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time).	No additional noise or air quality monitoring conducted.	Not Triggered	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>INDEPENDENT REVIEW</b>					
77.	3	<p>If a landowner of privately-owned land considers the project to be exceeding the relevant air quality or noise impact assessment criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the project on his/her land.</p> <p>If the Secretary is satisfied that an independent review is warranted, the Proponent must within 2 months of the Secretary's decision:</p> <p>(a) commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Secretary, to:</p> <ul style="list-style-type: none"> <li>• consult with the landowner to determine his/her concerns;</li> <li>• conduct monitoring to determine whether the project is complying with the relevant impact assessment criteria in Schedule 3; and</li> <li>• if the project is not complying with these criteria then:</li> <li>• determine if more than one source, including the project, is responsible for the exceedance, and if so the relative share of each source towards the impact on the land;</li> <li>• identify the measures that could be implemented to ensure compliance with the relevant criteria; and</li> </ul> <p>(b) give the Secretary and landowner a copy of the independent review.</p>	No request for an independent review had been received.	Not Triggered	
78.	4	<p>If the independent review determines that the project is complying with the relevant impact assessment criteria in Schedule 3, then the Proponent may discontinue the independent review with the approval of the Secretary.</p> <p>If the independent review determines that the project is not complying with the relevant impact assessment criteria in Schedule 3, and that the project is primarily responsible for this non-compliance, then the Proponent must:</p> <p>(a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent expert, and conduct further monitoring until the project complies with the relevant criteria; or</p>	No request for an independent review had been received.	Not Triggered	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		(b) secure a written agreement with the landowner to allow exceedances of the relevant impact assessment criteria, to the satisfaction of the Secretary.			
79.	5	<p>If the independent review determines that the relevant impact assessment criteria in Schedule 3 are being exceeded, but that more than one source, including the project, is responsible for this non-compliance, then the Proponent must, together with the relevant sources:</p> <ul style="list-style-type: none"> <li>(a) implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent expert, and conduct further monitoring until there is compliance with the relevant criteria; or</li> <li>(b) secure a written agreement with the landowner and other relevant sources to allow exceedances of the relevant impact assessment criteria in schedule 3, to the satisfaction of the Secretary.</li> </ul>	No request for an independent review had been received.	Not Triggered	

**SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING**

**ENVIRONMENTAL MANAGEMENT**

**Environmental Management Strategy**

80.	1.	<p>The Proponent must prepare an Environmental Management Strategy for the project to the satisfaction of the Secretary. The strategy must:</p> <ul style="list-style-type: none"> <li>(a) be submitted for approval to the Secretary prior to the commencement of construction activities;</li> <li>(b) provide the strategic framework for environmental management of the project;</li> <li>(c) identify the statutory approvals that apply to the project;</li> <li>(d) set out the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the project;</li> <li>(e) set out the procedures to be implemented to:                             <ul style="list-style-type: none"> <li>• keep the local community and relevant agencies informed about the operation and environmental performance of the project;</li> <li>• receive, handle, respond to, and record complaints;</li> </ul> </li> </ul>	<p>An Environmental Management Strategy was prepared and submitted to the Director-General for approval in September 2012 prior to the commencement of construction activities. EMS was updated following approval of MOD 2 and resubmitted 17/07/19.</p> <p>Hanson's were awaiting a response from DPIE in relation to the approval of the Environmental Management Strategy at the date of this audit (September 2019).</p> <ul style="list-style-type: none"> <li>(b) a strategic framework for environmental management of the project is addressed in Section 3 – Strategic framework;</li> <li>(c) statutory approvals that apply to the project are identified in section 4 – Legal and Other Requirements</li> <li>d) section 14 describes the roles, responsibility, authority and accountability of key personnel involved in the environmental</li> </ul>	Compliance	
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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<ul style="list-style-type: none"> <li>• resolve any disputes that may arise during the course of the project;</li> <li>• respond to any non-compliance and any incident; and</li> <li>• respond to emergencies; and</li> <li>(f) include:                             <ul style="list-style-type: none"> <li>• references to the various strategies, plans and programs that are required under the conditions of this approval once they have been approved; and</li> <li>• a clear plan depicting all the monitoring to be carried out in relation to the project.</li> </ul> </li> </ul> <p>The Proponent must implement the Environmental Management Strategy as approved by the Secretary.</p>	<p>management of the project are identified in the Environmental Management Strategy;</p> <p>(e) Environmental Management Strategy sections describe the procedures that would be implemented to:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> section 12 describes the Stakeholder and Community Consultation process to keep the local community and relevant agencies informed of the operation and environmental performance of the project;</li> <li><input type="checkbox"/> section 10 provides the Complaints Handling and Disputes Resolution procedure for receiving, handling, responding to, and recording complaints;</li> <li><input type="checkbox"/> section 10 provides the Dispute Resolution procedure to resolve any disputes that may arise during the course of the project;</li> <li><input type="checkbox"/> section 7 provides an outline to evaluate compliance and section 8 provides corrective and preventative response to any noncompliance;</li> </ul> <p>and</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> section 11 provides emergency response</li> </ul> <p>(f) references each of the strategies, plans and programs that are required under the conditions of this approval with detail in the EMS Table 4; and</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> section 6 and Table 6 provides the monitoring plan for the project.</li> </ul>		
<b>Management Plan Requirements</b>					
81.	2.	<p>The Proponent must ensure that the Management Plans required under this approval are prepared in accordance with any relevant guidelines, and include:</p> <p>(a) a summary of relevant background or baseline data;</p> <p>(b) a description of:</p> <ul style="list-style-type: none"> <li>• the relevant statutory requirements (including any relevant approval, licence or lease conditions);</li> </ul>	<p>The environmental management plans have been prepared to satisfy Project Approval conditions and addresses the Schedule 5 condition 2 requirements where relevant.</p> <p>Verified previous audit.</p>	Compliance	

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AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<ul style="list-style-type: none"> <li>• any relevant limits or performance measures/criteria; and</li> <li>• the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the project or any management measures;</li> <li>(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</li> <li>(d) a program to monitor and report on the:                             <ul style="list-style-type: none"> <li>• impacts and environmental performance of the project; and</li> <li>• effectiveness of any management measures (see (c) above);</li> </ul> </li> <li>(e) a contingency plan to manage any unpredicted impacts and their consequences;</li> <li>(f) a program to investigate and implement ways to improve the environmental performance of the project over time;</li> <li>(g) a protocol for managing and reporting any:                             <ul style="list-style-type: none"> <li>• incidents;</li> <li>• complaints;</li> <li>• non-compliances with statutory requirements; and</li> <li>• exceedances of the impact assessment criteria and/or performance criteria; and</li> </ul> </li> <li>(h) a protocol for periodic review of the plan.</li> </ul> <p><i>Note: At the discretion of the Secretary, some of these requirements may be waived where they are either not relevant or necessary.</i></p>			
<b>Annual Review</b>					
82.	3.	By 31 March 2012, and annually thereafter, the Proponent must review the environmental performance of the project to the satisfaction of the Secretary. This review must: <ul style="list-style-type: none"> <li>(a) describe the works (including rehabilitation) that were carried out in the previous calendar year, and the works that are proposed to be carried out over current calendar year;</li> <li>(b) include a comprehensive review of the monitoring results and complaints records of the project over the past year, which includes a comparison of these results against:</li> </ul>	Annual reviews prepared for 2016, 2017 and 2018 and provided to the Secretary.	Compliance	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<ul style="list-style-type: none"> <li>• the relevant statutory requirements, limits or performance measures/criteria;</li> <li>• the monitoring results of previous years; and</li> <li>• the relevant predictions in the documents listed in condition 2(a) of Schedule 2;</li> </ul> <p>(c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to rectify the non-compliance and avoid reoccurrence;</p> <p>(d) identify any trends in the monitoring data over the life of the project;</p> <p>(e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and</p> <p>(f) describe what measures will be implemented over the next year to improve the environmental performance of the project.</p>			
<b>Revision of Strategies, Plans &amp; Programs</b>					
83.	4.	<p>Within 3 months of:</p> <p>(a) the submission of an annual review under condition 3 above;</p> <p>(b) the submission of an incident report under condition 6 below;</p> <p>(c) the submission of an independent environmental audit report under condition 8 below;</p> <p>(d) the approval of any modification of the conditions of this approval,</p> <p>the Proponent must review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Secretary.</p> <p><i>Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the project.</i></p>	Reported that plans had been reviewed but no changes had been identified.	Compliance	
<b>COMMUNITY CONSULTATIVE COMMITTEE</b>					
84.	5.	The Proponent must establish a Community Consultative Committee (CCC) for the Project to the satisfaction of the Secretary. This CCC must be operated in general accordance with the Department's <i>Community Consultative Committee Guidelines</i> :	CCC established. Meets 2 times/ year.	Compliance	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<p><i>State Significant Projects (2016) to the satisfaction of the Secretary.</i></p> <p><i>Notes:</i></p> <ul style="list-style-type: none"> <li><i>• The CCC is an advisory committee only.</i></li> <li><i>• In accordance with the Guidelines, the Committee should comprise an independent chair and appropriate representation from the Proponent, Council and the local community.</i></li> </ul>			
<b>REPORTING AND AUDITING</b>					
<b>Incident Notification</b>					
85.	6.	<p>The Proponent must immediately notify the Department and any other relevant agencies immediately after it becomes aware of an incident. The notification must be in writing to <a href="mailto:compliance@planning.nsw.gov.au">compliance@planning.nsw.gov.au</a> and identify the project (including the project application number and name) and set out the location and nature of the incident.</p>	No notifiable incidents have occurred.	Not Triggered	
<b>Non-Compliance Notification</b>					
86.	7.	<p>Within seven days of becoming aware of a non-compliance, the Proponent must notify the Department of the non-compliance. The notification must be in writing to <a href="mailto:compliance@planning.nsw.gov.au">compliance@planning.nsw.gov.au</a> and identify the project (including the project application number and name), set out the condition of this approval that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.</p> <p><i>Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.</i></p>	No notifiable incidents have occurred.	Not Triggered	

AQUAS Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>INDEPENDENT ENVIRONMENTAL AUDIT</b>					
87.	8.	By 31 December 2013, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent must commission and pay the full cost of an Independent Environmental Audit of the project. This audit must: <ul style="list-style-type: none"> <li>(a) be led and conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;</li> <li>(b) include consultation with the relevant agencies and the CCC;</li> <li>(c) assess the environmental performance of the project and assess whether it is complying with the relevant requirements in this approval and any relevant EPL or other approval (including any assessment, plan or program required under these approvals);</li> <li>(d) review the adequacy of strategies, plans or programs required under the abovementioned licences or approvals;</li> <li>(e) recommend measures or actions to improve the environmental performance of the project, and/or any assessment, plan or program required under these approvals; and</li> <li>(f) be completed within 2 months of the approval of the audit team. <i>Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.</i></li> </ul>	Auditor approved 7 September 2016.  Conducted 17-28 October 2016.  Report submitted October 2016.	Compliance	
88.	9.	Within 6 weeks of the completing of this audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary and any other NSW agency that requests it, together with its response to any recommendations contained in the audit report.	Previous audit conducted 17-28 October 2016. Submitted 15/11/16.	Compliance	
<b>ACCESS TO INFORMATION</b>					
89.	10.	Within 3 months of this approval, the Proponent must: <ul style="list-style-type: none"> <li>(a) make copies of the following publicly available on its website:                             <ul style="list-style-type: none"> <li>• the documents referred to in condition 2 of schedule 2;</li> </ul> </li> </ul>	Hanson maintain a website with required information, including environmental performance reports, plans or programs approved under the conditions of this approval	Compliance	

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		<ul style="list-style-type: none"> <li>all relevant statutory approvals for the project;</li> <li>all approved strategies, plans and programs required under the conditions of this approval;</li> <li>a comprehensive summary of the monitoring results for the project;</li> <li>a complaints register, which is to be updated on a quarterly basis;</li> <li>minutes of CCC meetings;</li> <li>the annual reviews required under this approval (over the last 5 years);</li> <li>any independent environmental audit of the project, and the Proponent's response to any recommendations in any audit; and</li> <li>any other matter required by the Secretary; and</li> </ul> <p>(b) keep this information up-to-date, to the satisfaction of the Secretary.</p>	<a href="https://www.hanson.com.au/about-us/regulatory-information/east-guyong-quarry-project/">https://www.hanson.com.au/about-us/regulatory-information/east-guyong-quarry-project/</a>		
90.	11.	<p>Any condition of this approval that requires the carrying out of monitoring or an environmental audit, whether directly or by way of a plan, strategy or program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&amp;A Act. This includes conditions in respect of incident notification, reporting and response, non-compliance notification, compliance report and independent audit.</p> <p><i>Note: For the purposes of this condition, as set out in the EP&amp;A Act, "monitoring" is monitoring of the development to provide data on compliance with the approval or on the environmental impact of the project, and an "environmental audit" is a periodic or particular documented evaluation of the project to provide information on compliance with the approval or the environmental management or impact of the project.</i></p>	<p>Monitoring has been conducted in accordance with the conditions of consent and requirements of the approved management plans.</p> <p>Independent environmental audits have been conducted in accordance with the conditions of consent.</p>	Compliance	
91.	12.	Noise, blast and air quality monitoring under this approval is not required at all privately-owned residences and the use of representative monitoring locations can be used to demonstrate compliance with criteria.	<p>Noise monitoring has been conducted at representative locations as approved by DPI&amp;E.</p> <p>Blast monitoring undertaken at residences.</p>	Compliance	

AQUAS Ref No	Statements of Commitment	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
<b>APPENDIX 2 – STATEMENT OF COMMITMENTS</b>					
92.	<b>Operational Controls</b>	<ul style="list-style-type: none"> <li>• All activities will be undertaken generally in accordance with the EAR and Preferred Project Report.</li> <li>• Hard rock extraction and processing activities will be as follows:</li> <li>• Drill and blasting only to occur during daylight hours Monday to Saturday;</li> <li>• Plant processing to occur during daylight hours however this may be extended from time-to-time depending on customers needs. Notice will be provided should this be the case; and</li> <li>• Sales and transportation activities will occur 24 hours per day as required.</li> <li>• Annual production will commence at 250,000 tonnes per annum and increase to a maximum of 600,000 tonnes per annum.</li> <li>• The quarry will be rehabilitated and the final land form will be constructed as per Figure 4 of Appendix 1. A comprehensive Rehabilitation and Decommissioning Plan will be prepared to ensure rehabilitation objectives are achieved to a reasonable extent. The Plan will include:                             <ul style="list-style-type: none"> <li>- the rehabilitation program;</li> <li>- native vegetation and fauna habitat management;</li> <li>- feral animal control;</li> <li>- fire management;</li> <li>- weed management;</li> <li>- minimisation of edge effects;</li> <li>- stormwater control;</li> <li>- control of public access; and</li> <li>- monitoring; and funding.</li> </ul> </li> </ul>	<p>Works on site were limited to the approved work hours, including blasting and drilling. Blasting was generally conducted between 11am and 2pm.</p> <p>Transport of material between 5am and 10pm.</p> <p>Annual production Up to September 2019 – 207,700 T 2018 – 385,255 T 2017 – 334.169 T 2016 – 352,388 T</p> <p>Rehabilitation plan developed. Progressive rehabilitation had commenced on site.</p> <p>Final land form is planned to be constructed generally in accordance with Figure 5.14 of the Environmental Assessment.</p>	Compliance	
93.	<b>Flora and Fauna</b>	In order to minimise the impact of vegetation clearing the proponent will commission and commence a Vegetation Clearance Management Plan, Revegetation Plan, Feral Animal Control Management Plan, and Weed Management	Verified previous audit.	Compliance	

AQUAS Ref No	Statements of Commitment	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<p>Plan prior to commencement of quarrying activities. These plans will be developed by a suitable qualified and experienced person and take into consideration the following:</p> <ul style="list-style-type: none"> <li>- Implications of meta-population dynamics;</li> <li>- Implications of transitional zone dynamics;</li> <li>- Episodic high disturbance events;</li> <li>- Loss of functional role of species;</li> <li>- Clearing of native vegetation; and removal of dead wood and dead trees;</li> <li>- Bush rock removal;</li> <li>- Invasion of exotic perennial grasses; and</li> <li>- Predation by European Red Fox, Feral Cats, and Rabbits.</li> </ul>			
94.	<b>Heritage</b>	<ul style="list-style-type: none"> <li>• The proponent will give the Orange LALC seven days notice of their intention to commence stripping of overburden or any disturbance of the existing ground to allow the land council sufficient time to arrange for a Sites Officer to be present.</li> <li>• All Hanson employees, contractors and the employees will be bound by the provisions of the National Parks and Wildlife Act 1974 as amended, which was in part designed to mitigate impacts to the indigenous archaeological record.</li> <li>• All Hanson employees, contractors and the employees will be instructed that in the event of any bone or stone artefacts, or discrete distributions of shell are unearthed during quarry activities, work should cease immediately in the area of the find, and the Orange LALC, and officers of the National Parks and Wildlife Service informed.</li> </ul>	<p>East Guyong Quarry advised the Orange LALC of the intention to commence stripping of the Infrastructure Area on 25 February 2013 and bulk earthworks on 20 May 2013. The Orange LALC did not elect to inspect the site as no objects of Aboriginal heritage significance were identified in the Environmental Assessment of the quarry site.</p> <p>Aboriginal Cultural Heritage Management Plan section 5 – Legal and Other Requirements identifies the provisions of the National Parks and Wildlife Act 1974.</p> <p><b>Site induction does not include instructions in the event of any bone or stone artefacts, or discrete distributions of shell are unearthed during quarry activities;</b></p> <p>Aboriginal Cultural Heritage Management Plan section 9.4 – Management Measures includes stop work procedures related to unidentified finds during quarry activities.</p>	<b>Non-Compliance</b>	<b>01</b>
95.	<b>Traffic and Access</b>	<ul style="list-style-type: none"> <li>• The proponent will construct the driveway junction with the Mitchell Highway being compliant with the recommended layout depicted in Annexure B of the McLaren Traffic Report (Volume 3 of the EAR) report. It should be noted that all traffic channelisation works within the Mitchell Highway to involve line marking to</li> </ul>	<p>Refer to Project Approval Schedule 3 condition 37 – 38</p> <p>Verified previous audit.</p>	Compliance	



**Audit Checklist: Project Approval 06\_0193**

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AQUAS Ref No	Statements of Commitment	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<p>AS1742 standards with delineation to allow adequate visibility in fog conditions. No concrete medians to be placed within the Mitchell Highway carriageway as raised concrete medians would be hazardous in the location.</p> <ul style="list-style-type: none"> <li>The driveway between the property boundary and the Mitchell Highway carriageway should be sealed and extended to internally installed shaker grids within the site offset by a distance of 20 metres.</li> <li>On-site parking will be provided to accommodate at least 20 car spaces (16 staff, 4 visitors) and 8 trucks (up to 19m in length, to allow for semi-trailers). A further area for occasional B-Double temporary parking should also be provided. An allowance for up to 2 B-Doubles is recommended each with a bay length of 25m and a width of 3.5m.</li> <li>The proponent will submit a Driver Code of Practice for approval to ensure that truck drivers are made aware of the obligations of safety and environmental compliance when accessing the site and driving on the quarry property. All Hanson employee truck drivers and sub-contractors will be conditioned to adhere to the approved Driver Code of Practice.</li> <li>The road from the Mitchell Highway will have access and passing lanes, allowing for trucks and other vehicles to turn safely into the quarry. Where practicable, the access road will be asphalt sealed and extended to internally installed shaker grids at the boundary of the weighbridge and stockpile area. The Preferred Project site access road will adopt a route deviating away from Naturally Occurring Asbestos (NOA) affected areas following the proposed corridor as shown on Figure 1 of the Preferred Project Report. The sealed entry road will have grades of less than 15% and will be constructed with adequate erosion and drainage control measures. A minimal amount of vegetation will be cleared during the road construction and will be used as mulch or seed beds in any re-vegetation works. The recommended driveway geometric design shown in annexure B of the Traffic</li> </ul>			

AQUAS Ref No	Statements of Commitment	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		Impact Assessment (Vol 3 of EAR) for Proposed Hard Rock Quarry at Mitchell Highway, Guyong.			
96.	<b>Noise</b>	<p>An Operational Noise Management Plan will be developed for the proposal and be implemented prior to extraction commencing. The plan will incorporate a noise monitoring program to monitor noise emissions and determine compliance with the project specific noise goals. The Plan will include:</p> <ul style="list-style-type: none"> <li>- Noise monitoring on site and within the community</li> <li>- Prompt response procedures to any community issues of concern</li> <li>- Refinement of on-site noise mitigation measures and quarry operating procedures where practical</li> <li>- Mechanism for discussion and negotiation with relevant property holders to assess concerns</li> </ul> <ul style="list-style-type: none"> <li>• Traffic Noise Management Plan will be developed and implemented for truck movements on and accessing/exiting the site.</li> </ul>	<p>Noise Management Plan, Feb 2013 prepared prior to extraction commencing.</p> <p>Noise Management Plan prepared for Mod 2 and submitted 17/07/19. See Project Approval Schedule 3 condition 7.</p>	Compliance	
97.	<b>Air Quality</b>	<ul style="list-style-type: none"> <li>• Dust suppression activities, such as spraying a suitable dust suppressant, will be undertaken on all unsealed quarry roads so that dust generation is minimised.</li> <li>• A weather station monitor will be installed on-site to continuously monitor weather conditions so that quarry operations can be modified to reduce dust emitting activities and appropriate mitigations taken in response to adverse weather.</li> <li>• An Air Quality management Plan will be developed for the proposal and be implemented prior to extraction commencing. This Plan will include air quality monitoring during construction and initial operation at the sensitive receptors as nominated in the Heggies Pty Ltd, Air Quality Impact Assessment Report of the EAR.</li> </ul>	<p><b>Refer to Project Approval Schedule 3 condition 18 – 20</b></p> <p>Water cart used on site for minimising dust emissions from unsealed roads.</p> <p>Automated weather station installed to the east of the site access road.</p> <p>Air Quality Monitoring Program prepared and submitted to the Secretary on 17/07/19.</p>	Compliance	
98.	<b>Groundwater</b>	A Groundwater Management Plan will be developed prior to any extraction activities to the satisfaction of the Department in consultation with EPA. The Plan will include a	<p>Groundwater management address in Section 11 of the Soil and Water Management Plan.</p> <p>Sections 11.4 to 11.7 address monitoring requirements.</p>	Compliance	

AQUAS Ref No	Statements of Commitment	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		groundwater monitoring program that includes weekly monitoring of groundwater level and quarterly monitoring of groundwater quality (electrical conductivity, pH, turbidity, arsenic, manganese and iron). The results of the monitoring are to be kept on-site and made available to the relevant authority.	Groundwater monitoring results were readily available on site.		
99.	<b>Surface Water</b>	<p>Drainage controls will consist of diversion mounds, spoon drains, and shallow trenches (gutters) to divert runoff around the infrastructure area. Final details will be designed for a storm return period of one in ten years. As the first flush of runoff from disturbed areas contains the majority of suspended solids, the 3ML sediment dam controls will be designed to contain and treat these parts of the storm.</p> <p>To prevent clean water runoff (i.e. water from undisturbed areas) from entering the quarry and plant site (of disturbed areas) diversion mounds will be constructed around the infrastructure area. Any runoff from disturbed areas will be diverted to a sedimentation dam as shown in Figure 1 of the Preferred Project Report. All channels will be constructed to the requirements of the Soil Conservation Service and, where necessary, channels will be protected with riprap and vegetation.</p> <p>To prevent soil erosion problems, only limited areas will be stripped ahead of the quarry pit development and heavy quarry traffic will be confined to constructed roads and quarry areas. Drainage channels will be constructed for all access roads and any crossings will be designed for the expected flows from upslope areas. All channels will be stabilised to prevent scouring. Rehabilitation will be carried out progressively following extractive operations to ensure a stable landform and to control soil erosion.</p>	<p>Refer to Project Approval Schedule 3 condition 27 – 28.</p> <p>Construction of the clean and dirty water circuits was verified previous audit.</p> <p>Licensed discharge point established "W1" as identified on "Figure 2 - Site Layout and Surface Water Catchment" provided within the Soil and Water Management Plan, which is licensed EPL 20190 discharge point – EPL identification No. 6.</p> <p>One discharge event has occurred.</p> <p>Bunded storage facilities were provided for the storage of fuels, oils and greases.</p>	Compliance	

AQUAS Ref No	Statements of Commitment	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<p>Runoff from the quarry and work areas will be collected by a system of diversion mounds and drains and directed to sedimentation dams for water clarification as shown in Figure 1 of the Preferred Project Report. There will be no dry weather discharge. Storage and settlement dams shown on Figure 1 of the Preferred Project Report will be constructed prior to quarrying. These dams will be designed to handle storms of duration equal to the time of concentration of the catchments. The design and construction of the sedimentation dams will be completed in accordance with the technical requirements of the Relevant Authority.</p> <p>A licensed discharge point will be established at the junction of the eastern drainage line and the adjoining property. Prior to construction of the processing plant background monitoring of water quality will be undertaken on the eastern drainage line during periods of flow or, alternatively at existing dams located on the drainage line, for the purposes of determine whether there is an existing load of NOA contained within stormwater.</p> <p>Used oils and greases will be collected and removed by a licensed contractor for disposal off site or on an approved disposal area. Diesel will be stored on site in an above ground fuel storage tank located in a bunded area. All fuel storage will be conducted in accordance with Australian Standards for storage of fuels (AS 1940- 2004 5.8.2, AS 3780-1994 5.7.2, AS 4452-1997).</p>			
100.	<b>Naturally Occurring Asbestos</b>	<ul style="list-style-type: none"> <li>Further investigation will be undertaken to confirm the absence of NOA within the Preferred Project infrastructure area prior to commencement of construction. This investigation will be conducted under the supervision of a suitably qualified person,</li> </ul>	<p>Refer to Project Approval Schedule 3 condition 1 Investigation report verified previous audit. High risk areas fenced off.</p>	Compliance	

AQUAS Ref No	Statements of Commitment	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<p>and the proposed methodology will be similar to that detailed in the 2009 Rangott Report.</p> <ul style="list-style-type: none"> <li>• The proponent will operate the site for the health and safety of the employees and the public by:                             <ul style="list-style-type: none"> <li>- Keeping high risk areas fenced off to prevent unauthorised access, and clearly defining areas that prohibit unauthorised access;</li> <li>- Implementing a Naturally Occurring Asbestos monitoring plan;</li> <li>- Maintaining an induction system and safety management and reporting procedures; and</li> <li>- Maintaining plant and equipment in a safe condition.</li> </ul> </li> </ul>			
101.	<b>Visual</b>	<p>Trees will be planted to screen the plant area, as it has been previously cleared for grazing. The topsoil from this area will be stockpiled for use around the site and will be used in the rehabilitation of worked-out areas. The proposed base level for the plant site is at 924 m AHD, as shown on the plant layout plan (Figure 1 of the Preferred Project Report). The plant site will be screened by a large continuous mound extending right around the infrastructure area and along the eastern side of the site entry road to within of 200m of the Mitchell Highway (as shown on Figure 1 of the Preferred Project Report). This large natural screen has been purposely located to avoid areas of high risk of encountering asbestiform materials at depths of less than 5m, and away from the boundaries of adjoining neighbours who will benefit from the retention of views of the valley slope.</p>	<p>Refer to Project Approval Schedule 3 condition 40</p> <ul style="list-style-type: none"> <li>- Topsoil stockpiles have been established.</li> <li>- Vegetative cover has been established on the visual amenity bunds as construction of the bunds was completed.</li> <li>- The Infrastructure Area and process plant is screened by the visual amenity bund (mound) along the eastern side of the main water storage/sediment basin and site access road.</li> </ul>	Compliance	

AQUAS Ref No	Statements of Commitment	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
					
102.	<b>Greenhouse Gases</b>	The proponent will continue to report annually the quarry operation's Greenhouse Gas emissions.		Compliance	
103.	<b>Environmental Management, Monitoring and Auditing</b>	<p>The proponent will obtain an Environmental Protection Licence for the proposal in accordance with the Protection of the Environment Operations Act 1997. Three years after the commencement of the proposal, and every four years thereafter, the proponent will commission and pay the full cost of an Independent Environmental Audit of the proposal.</p> <ul style="list-style-type: none"> <li>• Within 7 days of detecting an exceedance of the limits/performance criteria in this approval or an incident causing (or threatening to cause) material harm to the environment, the proponent shall report the exceedance/incident to EPA and any relevant agency. The report will:                             <ul style="list-style-type: none"> <li>- describe the date, time and nature of the exceedance/incident;</li> <li>- identify the cause (or likely cause) of the exceedance/incident;</li> <li>- describe what action has been taken to date; and</li> <li>- describe the proposed measures to address the exceedance/incident.</li> </ul> </li> </ul>	<p>Refer to Project Approval Schedule 5 condition 1–8</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Hanson Construction Materials obtained Environment Protection Licence No. 20190 for the East Guyong Hard Rock Quarry at 3410 Mitchell Highway Byng NSW on 13 November 2012. The EPL Activity Type is land based extractive activity.</li> </ul> <p>Environmental audits conducted in accordance with Schedule 5 condition 8.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> No exceedance of the limits/performance criteria in the EPL or an incident causing (or threatening to cause) material harm to the environment has occurred between October 2016 and September 2019.</li> <li><input type="checkbox"/> Contact phone number for the general public is listed on the project website and the signage at the gate to the quarry. A register of complaints / enquiries received in relation to the activities on the East Guyong Quarry site and actions</li> </ul>	Compliance	

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AQUAS Ref No	Statements of Commitment	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		Prior to the commencement of any operations, proponent will implement, publicise and list with a telephone company a contact phone number, which will enable the general public to reach a person who can arrange appropriate response action to the enquiry. The proponent will maintain a register to record details of all enquiries received and actions undertaken in response. This record will be made available to the EPA as required.	undertaken in response is maintained and placed on the website for each quarter.		

**Audit Checklist: Environmental Protection Licence 20190**

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**7 Audit Checklist – Environmental Protection Licence 20190**

AQUAS Ref No	EPL No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #		
<b>Administrative Conditions</b>							
1	A1.1	Scheduled Activity	Fee Based Activity	Scale	Up to September 2019 – 207,700 T 2018 – 385,255 T	Compliance	
		Crushing, grinding or separating	Crushing, grinding or separating	> 500000 - 2000000 T annual processing capacity			
		extractive activity	Land-based extractive activity	> 500000 - 2000000 T annual capacity to extract, process or store			
<b>Limit Conditions</b>							
1	L2.4	Water limits			One discharge in 2016 which complied with limit conditions.	Compliance	
		pH	6.5-8.5				
		Oil and Grease	<10				
		TSS	30				



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AQUAS Ref No	EPL No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #															
2	L3	Waste	No concrete waste received in the previous 12 months. EPL returns show no non-compliances with licence requirements.	Compliance																
		<table border="1"> <thead> <tr> <th>Code</th> <th>Waste</th> <th>Description</th> <th>Activity</th> <th>Other Limits</th> </tr> </thead> <tbody> <tr> <td>NA</td> <td>Cured concrete waste from a batch plant</td> <td>NA</td> <td>Waste processing (non- thermal treatment) Waste storage</td> <td>No more than 5000 tonnes per annum</td> </tr> <tr> <td></td> <td>General or Specific exempted waste</td> <td>Waste that meets all the requirements of a resource recovery order/exemption under Clause 92 of the Protection of the Environment Operations (Waste) Regulation 2014</td> <td>As specified in each particular resource recovery exemption</td> <td>NA</td> </tr> </tbody> </table>				Code	Waste	Description	Activity	Other Limits	NA	Cured concrete waste from a batch plant	NA	Waste processing (non- thermal treatment) Waste storage	No more than 5000 tonnes per annum		General or Specific exempted waste	Waste that meets all the requirements of a resource recovery order/exemption under Clause 92 of the Protection of the Environment Operations (Waste) Regulation 2014	As specified in each particular resource recovery exemption	NA
		Code				Waste	Description	Activity	Other Limits											
NA	Cured concrete waste from a batch plant	NA	Waste processing (non- thermal treatment) Waste storage	No more than 5000 tonnes per annum																
	General or Specific exempted waste	Waste that meets all the requirements of a resource recovery order/exemption under Clause 92 of the Protection of the Environment Operations (Waste) Regulation 2014	As specified in each particular resource recovery exemption	NA																
	L4.1	Noise Limits <table border="1" style="margin-top: 10px;"> <thead> <tr> <th>Location</th> <th>Limit L<sub>Aeq</sub> 15 minute (dBA)</th> </tr> </thead> <tbody> <tr> <td>Hartley Cottage</td> <td>35</td> </tr> <tr> <td>Cadira Vale</td> <td>35</td> </tr> <tr> <td>Lilactime</td> <td>35</td> </tr> <tr> <td>Fairview</td> <td>35</td> </tr> <tr> <td>Patanga</td> <td>35</td> </tr> <tr> <td>All other sensitive receivers</td> <td>35</td> </tr> </tbody> </table> <p>The L<sub>Aeq</sub> limits apply at all times, that is, Daytime, Evening and Night Time Operations The L<sub>Amax</sub> limits apply to the "night-time" operations.</p>	Location	Limit L <sub>Aeq</sub> 15 minute (dBA)	Hartley Cottage	35	Cadira Vale	35	Lilactime	35	Fairview	35	Patanga	35	All other sensitive receivers	35	Noise monitoring conducted at representative locations. Records show that noise limits have been complied with project requirements. No exceedances have been reported.	Compliance		
Location	Limit L <sub>Aeq</sub> 15 minute (dBA)																			
Hartley Cottage	35																			
Cadira Vale	35																			
Lilactime	35																			
Fairview	35																			
Patanga	35																			
All other sensitive receivers	35																			

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AQUAS Ref No	EPL No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
	L4.2	Hours of operation (operating hours): quarrying activities at the premises are restricted to the following operating hours: a) Monday to Friday (during AEST): 6 am to 6 pm; b) Monday to Friday (during AEDT): 6 am to 8 pm; c) Saturday: 7 am to 1 pm; and d) at no time on Sundays or Public Holidays.	Previous audit reported that: “An extension to the hours for product despatch was approved on 10 September 2015 following negotiated agreements reached with surrounding landowners (in accordance with Project Approval 06_0193 Schedule 3 condition 6(a). Letters were sent to owners of “Fairview”, “Lilac Time”, “Cadira Vale”, “R1”, “Hartley Cottage”, “Quinton” and “Wheatfields” residences, seeking approval to extend the transport activities in accordance with Project Approval 06_0193 Schedule 3 condition 6(a). (Sent 12/08/2015).” Quarrying operations – 6.00am to 5.00pm (commencement and cessation of crushing.	Compliance	
	L4.4	Hours of operation (transport): transport activities may be carried out between 5 am and 10 pm, Monday to Saturday, where the licensee has negotiated agreements to this effect with the owners of "Cadira Vale", "Fairview", "Hartley Cottage", "Lilactime", "Quinton", "R1", and "Wheatfields".	Previous audit reported that: “An extension to the hours for product despatch was approved on 10 September 2015 following negotiated agreements reached with surrounding landowners (in accordance with Project Approval 06_0193 Schedule 3 condition 6(a). Letters were sent to owners of “Fairview”, “Lilac Time”, “Cadira Vale”, “R1”, “Hartley Cottage”, “Quinton” and “Wheatfields” residences, seeking approval to extend the transport activities in accordance with Project Approval 06_0193 Schedule 3 condition 6(a). (Sent 12/08/2015).”	Compliance	
	L4.6	Noise from the premises is to be measured at the most affected point on or within the residential property boundary or, if that is more than 30 metres from the residence, at the most affected point within 30 metres of the residence to determine compliance with condition L4.2.	Noise is monitored at two agreed intermediate locations to minimize resident inconvenience and provide a better opportunity to quantify site related noise.	Compliance	

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AQUAS Ref No	EPL No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
	L4.8	The noise emission limits identified at condition L4.2 applies under meteorological conditions of: a) wind speeds up to 3m/s at 10 metres above ground level; and/or b) temperature inversion conditions of up to 3°C/100 metres.	Wind speeds were obtained from the site weather station, which measures wind speed at 10m.	Compliance	
<b>L5 Blasting</b>					
	L5.1	Hours of operation (blasting): blasting activities at the premises are restricted to the following hours: a) Monday to Friday: 9 am to 3 pm; and b) at no time on Saturdays, Sundays or Public Holidays.	Records showed that blasting had been conducted between 9am and 3pm. E.g.: 8/07/19 – 12.55pm 10/04/19 – 1.26pm 25/03/19 – 12.32pm	Compliance	
	L5.2	The frequency of blasting activities at the premises is restricted to the following: a) maximum of 2 blasts a day; and b) maximum of 5 blasts a week, averaged over a calendar year.	Blasting carried out approximately 1/month. e.g. 8/07/19, 7/06/19, 23/05/19, 3/05/19, 10/04/19	Compliance	
	L5.3	The airblast overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Records of blast monitoring for 2019 – <b>1 airblast overpressure level result in July 2019 of 119.2dB.</b> Less than 20 blasts per year, hence any exceedance results in more than five per cent of the total number of blasts exceeding 115dB over the reporting period. The exceedance occurred during overcast conditions No exceedances had occurred in 2018, 2017 or 2016.	<b>Non- Compliance</b>	<b>03</b>
	L5.4	The airblast overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	No exceedance of the 120dB limit has been recorded.	Compliance	

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AQUAS Ref No	EPL No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
	L5.5	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	No exceedance of the ground vibration level criteria has been recorded. Maximum levels recorded each year were: 2017 4.96 2018 Max 4.93 June 2018 2019 Max 13.77 July 2019	Compliance	
	L5.6	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	No exceedance of the ground vibration level criteria has been recorded. Maximum levels recorded each year were: 2017 4.96 2018 Max 4.93 June 2018 2019 Max 13.77 July 2019	Compliance	
<b>Operating Conditions</b>					
3	O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient manner	Records of plant maintenance were verified Daily prestart inspections and maintenance records were sighted e.g. Jacques Jaw Crusher prestart inspection 28/08/19	Compliance	
4	O3.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	Water cart used for dust suppression. Water used for dust suppression on conveyors, stockpiles. Equipment enclosed where possible to minimise dust emissions.	Compliance	
5	O3.2	Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.	Verified during site inspection. All trucks sighted had been covered. Reported that covering of loads was checked to the weighbridge before exit from the site.	Compliance	
6		All operations and activities occurring at the premises must be carried out in a manner that will minimise the emission of dust from the premises.	Water cart used for dust suppression. Water used for dust suppression on conveyors, stockpiles. Equipment enclosed where possible to minimise dust emissions.	Compliance	

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AQUAS Ref No	EPL No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #										
<b>6 Monitoring Records</b>															
7	M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	Records of monitoring conducted were readily available on site.	Compliance											
8	M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them.	Records were maintained electronically and were readily available in the site office.	Compliance											
9	M1.3	The following records must be kept in respect of any samples required to be collected for the purposes of this licence: a) the date(s) on which the sample was taken; b) the time(s) at which the sample was collected; c) the point at which the sample was taken; and d) the name of the person who collected the sample.	Dust monitoring records did not identify: b) the time(s) at which the sample was collected; d) the name of the person who collected the sample.	<b>Non- Compliance</b>	<b>07</b>										
10	M2.1	For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:	Monitoring has generally been conducted for each pollutant specified in accordance with the sampling methods and frequencies identified.	Compliance											
11	M2.2	<p>Air Monitoring Requirements</p> <table border="1"> <tr> <td>2,3,4</td> <td>Deposited Dust</td> <td>g/m<sup>2</sup>/month</td> <td>Monthly</td> <td>AS3580.10.1-2003</td> </tr> <tr> <td>5</td> <td>PM<sub>10</sub></td> <td>ug/m<sup>3</sup></td> <td>Continuous</td> <td>AS2724.4</td> </tr> </table>	2,3,4	Deposited Dust	g/m <sup>2</sup> /month	Monthly	AS3580.10.1-2003	5	PM <sub>10</sub>	ug/m <sup>3</sup>	Continuous	AS2724.4	<p><b>PM<sub>10</sub> monitoring conducted at location 5. Noted that the monitor has been out of service since April 2019.</b></p> <p>Dust monitoring has been conducted at sites 2,3,and 4 on a monthly basis</p>	<b>Non- Compliance</b>	<b>08</b>
2,3,4	Deposited Dust	g/m <sup>2</sup> /month	Monthly	AS3580.10.1-2003											
5	PM <sub>10</sub>	ug/m <sup>3</sup>	Continuous	AS2724.4											

# Audit Checklist: Environmental Protection Licence 20190

Project: East Guyong Quarry Contractor: Hanson Construction Materials Pty Ltd Date: 17-18/09/2019



AQUAS Ref No	EPL No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #												
12	M2.3	<p>Water and/ or Land Monitoring Requirements</p> <table border="1"> <tr> <td>pH</td> <td>pH</td> <td>Monthly during Grab sample</td> <td>Grab Sample</td> </tr> <tr> <td>Oil and Grease</td> <td>Milligrams per litre</td> <td>Monthly during Grab sample</td> <td>Grab Sample</td> </tr> <tr> <td>TSS</td> <td>Milligrams per litre</td> <td>Monthly during Grab sample</td> <td>Grab Sample</td> </tr> </table>	pH	pH	Monthly during Grab sample	Grab Sample	Oil and Grease	Milligrams per litre	Monthly during Grab sample	Grab Sample	TSS	Milligrams per litre	Monthly during Grab sample	Grab Sample	One discharge event since in September 2016. No discharge since previous audit	Compliance	
pH	pH	Monthly during Grab sample	Grab Sample														
Oil and Grease	Milligrams per litre	Monthly during Grab sample	Grab Sample														
TSS	Milligrams per litre	Monthly during Grab sample	Grab Sample														
13	M3.2	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.		Compliance													
14	M4.1	The licensee is required to undertake attended noise monitoring once every quarter during the reporting period in accordance with the NSW Industrial Noise Policy (EPA, 2000/2001) and any relevant Australian Standards to determine compliance with condition L4.2	Monitoring has been conducted on a quarterly basis at agreed locations. No exceedances of the noise criterion have been recorded.	Compliance													
15	M4.2	The licensee is required to provide the EPA with a Noise Impact Assessment document no later than one month after the attended noise monitoring required by condition M4.1 was carried out that outlines the findings of this noise monitoring.	<b>No record of submission to EPA of a Noise Impact Assessment document.</b>	<b>Non- Compliance</b>	<b>09</b>												
16	M4.3	The licensee is required to undertake attended or unattended blast monitoring for every blast event undertaken and in accordance with any relevant Australian Standards to determine compliance with conditions L5.3 to L5.6.	Records were available to demonstrate that blast monitoring had been conducted for each blast event.	Compliance													
17	M4.4	The licensee is required to provide within the Noise Impact Assessment document required by condition M4.2, the results of the attended or unattended blast monitoring required by condition M4.3 that outlines the findings of the blast monitoring for that quarter.	<b>No record of submission to EPA of a Noise Impact Assessment document.</b>	<b>Non- Compliance</b>	<b>09</b>												

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AQUAS Ref No	EPL No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #			
18	M4.5	The licensee, following the receipt of a noise related complaint and if required by the EPA, must undertake noise monitoring as required by the EPA to determine compliance with the noise limits stipulated by condition L4.2.	No noise complaints have been received during the period covered by this audit.	Not Triggered				
19	M4.6	The results of the noise monitoring required by condition M4.5, and an interpretation of these results, must be provided to the EPA within 21 days of the completion of the noise monitoring.	No noise complaints have been received during the period covered by this audit.	Not Triggered				
<b>Weather Monitoring</b>								
20	M5.1	For each monitoring point specified in the table below the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1. The licensee must use the sampling method, units of measure, averaging period and sample at the frequency, specified opposite in the other columns.	Weather station has been installed on the site to monitoring meteorological variables identified.	Compliance				
21		Air temperature	°C	Continuous	1 hour	AM-4	Compliance	
		Wind direction	°	Continuous	15 minute	AM-2 & AM-4		
		Wind speed	m/s	Continuous	15 minute	AM-2 & AM-4		
		Sigma theta	°	Continuous	15 minute	AM-2 & AM-4		
		Rainfall	mm	Continuous	15 minute	AM-4		
		Relative humidity	%	Continuous	1 hour	AM-4		
22	M6.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.	Complaints register maintained on the company website.	Compliance				

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Date: 17-18/09/2019



AQUAS Ref No	EPL No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
23		The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and f) if no action was taken by the licensee, the reasons why no action was taken.	Verified. Includes date, time, mode of complaint, nature of complaint, complaint comments (including name) and action taken.	Compliance	
24	M6.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Complaints registers from 2013 to present available on company website.	Compliance	
25	M6.4	The record must be produced to any authorised officer of the EPA who asks to see them.	Register readily available for viewing.	Compliance	
26	M7.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	Quarry Manager's number displayed on the company website for complaints.	Compliance	
27	M7.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	Included on the company website under complaints. Telephone number on sign at entry to Quarry.	Compliance	
28	M7.3	The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.		Compliance	



**Audit Checklist: Environmental Protection Licence 20190**

**Project: East Guyong Quarry Contractor: Hanson Construction Materials Pty Ltd**

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AQUAS Ref No	EPL No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #				
29	M8.1	<p>For each discharge point or utilisation area specified below, the licensee must monitor:</p> <ul style="list-style-type: none"> <li>a) the volume of liquids discharged to water or applied to the area;</li> <li>b) the mass of solids applied to the area;</li> <li>c) the mass of pollutants emitted to the air;</li> </ul> <p>at the frequency and using the method and units of measure, specified below.</p> <p><b>Point 6</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Continuous discharge</td> <td style="width: 25%;">during</td> <td style="width: 25%;">kilolitres per day</td> <td style="width: 25%;">Flow meter and continuous logger</td> </tr> </table>	Continuous discharge	during	kilolitres per day	Flow meter and continuous logger	<p><b>A flow meter and continuous monitor had not been installed to monitor volume and flow rate of discharge.</b></p>	Non- Compliance	10
Continuous discharge	during	kilolitres per day	Flow meter and continuous logger						
<b>6 Reporting Conditions</b>									
30	R1.1	<p>The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:</p> <ol style="list-style-type: none"> <li>1. a Statement of Compliance,</li> <li>2. a Monitoring and Complaints Summary,</li> <li>3. a Statement of Compliance - Licence Conditions,</li> <li>4. a Statement of Compliance - Load based Fee,</li> <li>5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,</li> <li>6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and</li> <li>7. a Statement of Compliance - Environmental Management Systems and Practices.</li> </ol> <p>At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.</p>	Sighted 2016 return which was signed on 1/12/16.	Compliance					
31	R1.2	<p>An Annual Return must be prepared in respect of each reporting period, except as provided below</p>	Annual returns had been completed for each reporting period.	Compliance					

**Audit Checklist: Environmental Protection Licence 20190**

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**Date: 17-18/09/2019**



AQUAS Ref No	EPL No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
32	R1.3	Where this licence is transferred from the licensee to a new licensee: a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.	Licence had not been transferred.	Not Triggered	
33	R1.4	Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on: a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or b) in relation to the revocation of the licence - the date from which notice revoking the licence operates	Licence had not been surrendered.	Not Triggered	
34	R1.5	The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').	EPA public register shows all returns had been submitted within 60 days of the end of each reporting period.	Compliance	
35	R1.6	The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.	Copies were maintained by Hanson.	Compliance	
36	R1.7	Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or b) by a person approved in writing by the EPA to sign on behalf of the licence holder	Verified - Sighted 2016 return which was signed on 1/12/16.	Compliance	
<b>R2 Notification of environmental harm</b>					
37	R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.	No incidents resulting in environmental harm have been recorded.	Not Triggered	

**Audit Checklist: Environmental Protection Licence 20190**

**Project: East Guyong Quarry Contractor: Hanson Construction Materials Pty Ltd**

**Date: 17-18/09/2019**



AQUAS Ref No	EPL No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
38	R2.2	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred	No incidents resulting in environmental harm have been recorded.	Not Triggered	
39	R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that: a) where this licence applies to premises, an event has occurred at the premises; or b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.	No environmental incidents have been records. No Requests for a written report have been issued by the EPA.	Not Triggered	
40	R3.2	The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.	No environmental incidents have been records. No Requests for a written report have been issued by the EPA.	Not Triggered	

**Audit Checklist: Environmental Protection Licence 20190**

**Project: East Guyong Quarry Contractor: Hanson Construction Materials Pty Ltd**

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AQUAS Ref No	EPL No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
41	R3.3	The request may require a report which includes any or all of the following information: a) the cause, time and duration of the event; b) the type, volume and concentration of every pollutant discharged as a result of the event; c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event; d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort; e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants; f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and g) any other relevant matters.	No environmental incidents have been records. No Requests for a written report have been issued by the EPA.	Not Triggered	
42	R3.4	The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.	No written requests issues by EPA.	Not Triggered	
<b>7 General Conditions</b>					
43	G1.1	A copy of this licence must be kept at the premises to which the licence applies	Copy available in site office.	Compliance	
44	G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	Copy available in site office	Compliance	
45	G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	Copy available in site office	Compliance	

# Audit Checklist: Audit Checklist - Water Access Licence 36530

Project: East Guyong Quarry Contractor: Hanson Construction Materials Pty Ltd

Date: 17-18/09/2019



## 8 Audit Checklist – Water Access Licence 36530

Checklist item	Condition No	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
<b>Water Access Licence 36530 – Plan Conditions</b>					
1.	Condition 1	The licence holder must record the following in the logbook: (i) each date and period of time during which water is taken under this licence; (ii) the volume of water taken on that date; (iii) the water supply work approval number of the water Supply work used to take the water on that date; (iv) the purpose or purposes for which the water taken on that date.	Logbook was available but incomplete. Last entry on 5/05/2017. Reported that the bore pump runs continuously during daylight hours.	<b>Non-Compliance</b>	<b>06</b>
2.	Condition 2	The licence holder must retain the information required to be recorded in the logbook for 5 years from the date to Which that information relates.	Logbook available. However no records included since 2017.	<b>Non-Compliance</b>	<b>06</b>
3.	Condition 3	The maximum water allocation that may be carried over in the Water allocation account for this access licence from one Water year to the next is either: (a) 10% of the access licence share component for access Licences with share components expressed as ml/year; or (b) 0.1 ml per unit share of access licence share component For access licences with share components expressed as a Number of unit shares.	Records of water volumes extracted not maintained	Not Triggered	
4.	Condition 4	The licence holder must keep a log book, except where the Access licence nominates only a metered work with a data Logger. A "logbook" means a written record, kept in hard Copy or electronic form, which accurately records all Information required to be kept for this licence.	No data logger installed. Logbook available but not completed.	<b>Non-Compliance</b>	<b>06</b>
5.	Condition 5	The licence holder must record the following in the logbook: (i) the volume of water taken in any water year from 1 July 2011, by comparison to the maximum volume of water permitted To be taken in that water year.	Log book available. However records of water taken on a daily basis had not been recorded.	<b>Non-Compliance</b>	<b>06</b>
6.	Condition 6	When directed by the minister by notice in writing, the Licence holder of an access licence that nominates only a Metered water supply work with a data logger must keep a Logbook in accordance with any requirements that are Specified in the notice.	No notices had been received from the minister	Not Triggered	
7.	Condition 7	The licence holder must notify the minister, in writing, Immediately upon becoming aware of a breach of any condition Of this licence. Note: a notification does not authorise a Breach, or continuing breach, of a condition of this Licence.	No breaches of the licence had been recorded.	Not Triggered	

**Audit Checklist: Audit Checklist - Water Access Licence 36530**

**Project: East Guyong Quarry Contractor: Hanson Construction Materials Pty Ltd**

**Date: 17-18/09/2019**



Checklist item	Condition No	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
8.	Condition 8	Water must not be taken under this access licence otherwise than in compliance with the conditions of the nominated Water supply work approval.		Compliance	
9.	Condition 9	The maximum volume of water that may be taken under this Licence in any water year must not exceed a volume equal to: (a) the sum of water allocations accrued to the water Allocation account for this licence from available water Determinations in that year; plus (b) the water allocations carried over from the water year Prior to that water year; plus (c) the net amount of any water allocations assigned to or From the water allocation account for this licence under Section 71t of the act; plus (d) any water allocations re-credited to the water allocation Account for this licence in accordance with section 76 of The act in that water year.	Annual reviews show that 9ML taken in 2017,	Compliance	
10.	Condition 10	The licence holder must produce the logbook to the minister For inspection, when requested	Logbook was available, although not completed.	Compliance	

## **Appendix D. Consultation Records**

**From:** [Heather Nicholls](#)  
**To:** [Hart, James](#)  
**Subject:** RE: Independent Environmental Audit - East Guyong Quarry  
**Date:** Thursday, 5 September 2019 2:14:32 PM  
**Attachments:** [0055\\_001.pdf](#)

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Hi James

The attached letter was posted to Hanson's quarry office at East Guyong and their Parramatta office and also to the Dept of Planning raising concerns for consistent and appropriate environmental management of the quarry following changes to site operation management structure.

No response was received from the company, however Dept of Planning – Compliance staff did contact council advising of follow up actions required of the quarry.

It is disappointing that the local landowners and council, as members of the CCC, have not been contacted by the quarry to keep the members informed on any recent changes to quarry environmental management issues.

Council is aware that at least one of the adjacent neighbours to the quarry has experienced windblown litter issues recently (plastic tree guards being blown off the quarry property and onto adjoining farm land).

Council has not had any recent community complaints about noise, dust or traffic generated from the quarry site.

Council continues to work with the Hansen team and their consultants, providing comments as requested on various matters pertaining to the implementation of the conditions of development consent for the modified development approval.

Regards  
HJ Nicholls

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**From:** Hart, James <james.hart@aquas.com.au>  
**Sent:** Thursday, 5 September 2019 9:20 AM  
**To:** Cabonne Council <Council@cabonne.nsw.gov.au>  
**Subject:** Independent Environmental Audit - East Guyong Quarry

Hi Heather,

AQUAS has been engaged to undertake an Independent Environmental Audit of the East Guyong Quarry. As a requirement of the Independent Environmental Audit process I am seeking feedback from various agencies in regard to any issues that may have arisen or concerns which you may have in relation to the quarry operations. These will be included in the audit.

I would appreciate it if you would respond to this email identifying any issues or concerns you have, or if you have none, please respond and let me know.

If you have any questions or prefer to talk to someone about issues regarding the audit, you can



**From:** [Melanie Hollis](#)  
**To:** [Hart, James](#)  
**Subject:** RE: Independent Environmental Audit - East Guyong Quarry  
**Date:** Friday, 6 September 2019 10:33:25 AM

---

Hi James

My only concern at this point would be the progress of the vegetation screen proposed under Modification 2.

Happy to discuss if required,

Regards,

**Melanie Hollis**  
Senior Planning Officer  
Resource Assessments  
Level 30, 320 Pitt Street | GPO Box 39 | Sydney NSW 2001  
T 02 8217 2043 E [melanie.hollis@planning.nsw.gov.au](mailto:melanie.hollis@planning.nsw.gov.au)

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**From:** Hart, James <[james.hart@aquas.com.au](mailto:james.hart@aquas.com.au)>  
**Sent:** Thursday, 5 September 2019 9:14 AM  
**To:** Melanie Hollis <[Melanie.Hollis@planning.nsw.gov.au](mailto:Melanie.Hollis@planning.nsw.gov.au)>  
**Subject:** Independent Environmental Audit - East Guyong Quarry

Hi Melanie,

AQUAS has been engaged to undertake an Independent Environmental Audit of the East Guyong Quarry. As a requirement of the Independent Environmental Audit process I am seeking feedback from various agencies in regard to any issues that may have arisen or concerns which you may have in relation to the quarry operations. These will be included in the audit.

I would appreciate it if you would respond to this email identifying any issues or concerns you have, or if you have none, please respond and let me know.

If you have any questions or prefer to talk to someone about issues regarding the audit, you can contact me on 0408 238 682.

Regards

**James Hart** | Management Consultant

*Certified Exemplar Global Lead OHS Auditor*  
*Certified Exemplar Global Lead Environmental Auditor*  
*Certified Exemplar Global Lead Quality Management System Auditor*

AQUAS | Level 2, 426 King Street, Newcastle NSW 2300 | PO Box 2195, Dangar NSW 2309 |  
phone: +61 2 4928 7600 | fax: +61 2 4927 0930 | Mobile: +61 408 238 682  
email: [james.hart@aquas.com.au](mailto:james.hart@aquas.com.au) | ABN 40050539010 |

**From:** [sophia.stanley@dpi.nsw.gov.au](mailto:sophia.stanley@dpi.nsw.gov.au) on behalf of [DPI Cabinet](#)  
**To:** [Hart, James](#)  
**Cc:** [Brendan Stone](#); [Jane Bak](#)  
**Subject:** Fwd: East Guyong Quarry Independent Environmental Audi  
**Date:** Wednesday, 18 September 2019 2:00:19 PM

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Dear James

**Subject: East Guyong Quarry Independent Environmental Audit**

I refer to your email of 13 September 2019 to the Department of Primary Industries (DPI) regarding the above matter.

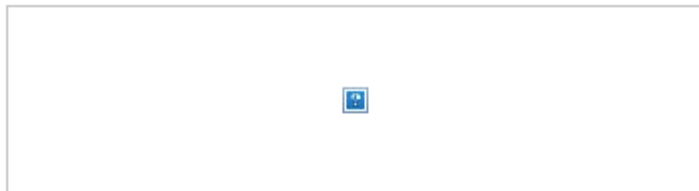
DPI has reviewed your request and has no comment.

Kind regards,  
Sophia

**DPI Coordination Team:**  
Cass McNamara, Manager - 0404 087 481  
Jane Bak, A/Manager - 0438 458 914 (27 Aug - 20 Sept)  
Sophia Stanley, Policy & Project Officer - 0427 326 931

eCabinet: <https://ecab.nsw.gov.au/ecabinet-prod/login?0>

NSW Department of Primary Industries  
Lvl 49 MLC Centre | 19 Martin Place | Sydney NSW 2000  
E: [dpi.cabinet@dpi.nsw.gov.au](mailto:dpi.cabinet@dpi.nsw.gov.au)



**REMINDER: The eCabinet system is a secure system and all documents are physically and electronically marked with the specific details of the system user. Alerts are created when these actions are made. Do not print or save any document from the eCabinet system.**

----- Forwarded message -----

**From:** Hart, James <[james.hart@aquas.com.au](mailto:james.hart@aquas.com.au)>  
**Date:** Fri, 13 Sep 2019 at 15:38  
**Subject:** East Guyong Quarry Independent Environmental Audi  
**To:** [landuse.enquiries@dpi.nsw.gov.au](mailto:landuse.enquiries@dpi.nsw.gov.au) <[landuse.enquiries@dpi.nsw.gov.au](mailto:landuse.enquiries@dpi.nsw.gov.au)>

Hi,





## East Guyong Quarry

Action Plan Compliance Response

Issue No.	Condition	Requirement	Issue sighted	Hanson Response	Timing						
N-01	Schedule 2, Condition 15	The Proponent must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this approval relevant to activities they carry out in respect of the project	Evidence that contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this approval relevant to activities they carry out not available.	Hanson will be creating a site specific induction, including the requirements set out in Section 7 of the Noise Management Plan.	20-Dec-19						
N-02	Schedule 3, Condition 7	The Proponent must prepare a Noise Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with EPA, and be submitted to the Secretary for approval prior to the commencement of construction activities; (b) include: · a description of the measures that would be implemented to minimise noise emissions from the project, with particular focus on: · quarrying operations within 500 metres of residences on privately-owned land; · transportation activities; and · continual improvement of noise performance; · a noise monitoring protocol for evaluating compliance with the relevant noise limits in this approval; · a protocol for the investigation, notification and mitigation of identified exceedances of the relevant noise limits; and · a continual improvement program for investigating, implementing and reporting on reasonable and feasible measures to reduce noise generated by the project. The Proponent must implement the Noise Management Plan as approved by the Secretary.	All requirements of the NMP had not been implemented. Specifically: · The site induction did not include communication of all noise basic noise awareness training incorporating the requirements of Section 7 of the Noise Management Plan (N-01). · Records were not available to verify that and sound power levels of the mobile equipment complied with the requirements of Section 10.6 of the Noise Management Plan.	Hanson will be creating a site specific induction, including the requirements set out in Section 7 of the Noise Management Plan.  Sound power level of mobile equipment that has changed since the last monitoring occurred will be organised in the next round of compliance noise monitoring.	20-Dec-19						
N-02	Schedule 3, Condition 8	The Proponent must ensure that the airblast overpressure level from blasting at the project does not exceed the criteria in Table 4 at any residence on privately-owned land.  <table border="1" data-bbox="394 959 772 1045"> <caption>Table 4: Airblast overpressure impact assessment criteria</caption> <thead> <tr> <th>Airblast overpressure level (dB(Lin Peak))</th> <th>Allowable exceedance</th> </tr> </thead> <tbody> <tr> <td>115</td> <td>5% of the total number of blasts in a 12 month period</td> </tr> <tr> <td>120</td> <td>0%</td> </tr> </tbody> </table>	Airblast overpressure level (dB(Lin Peak))	Allowable exceedance	115	5% of the total number of blasts in a 12 month period	120	0%	One exceedance of the airblast overpressure level occurred in July 2019 (119.2dB).	Exceedance was reported to the correct authorities and recorded within monitoring records. Investigation indicated that the low lying cloud cover was the most likely cause of the exceedance.	N/A
Airblast overpressure level (dB(Lin Peak))	Allowable exceedance										
115	5% of the total number of blasts in a 12 month period										
120	0%										
N-03	Schedule 3, Condition 15	The Proponent must: the development does not result in any queuing on the public road network unless otherwise approved by Council; a) operate a blasting hotline and advertise the hotline number in a local newspaper at least twice a year, or operate an alternate system agreed to by the Secretary, to enable the public to get up-to-date information on the blasting schedule; b) publish an up-to-date blasting schedule on its website; and c) notify the landowner/occupier of any residence within 2 kilometres of the site about the blasting schedule, blasting hotline and its website, to the satisfaction of the Secretary.	Unable to verify that the blasting hotline had been advertised twice yearly in the local newspaper or via an alternate system agreed to by the secretary.	The blasting hotline will be advertised through the Hanson website. We will seek permission from the Secretary for this system to be the alternative to the advertisement of the hotline number in a local newspaper.	20-Dec-19						
		Within 3 months of approval of Modification 2, the Proponent must prepare a Landscape Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with OEH, DoI L&W and Council, and be submitted to the Secretary prior to the	The following requirements of the Landscape								

N-05	Schedule 3, Condition 31	<p>commencement of quarrying operations; and (b) include a:</p> <ul style="list-style-type: none"> <li>• Rehabilitation and Biodiversity Management Plan; and</li> <li>• Long-Term Management Strategy.</li> </ul> <p>The Proponent must implement the Landscape Management Plan as approved by the Secretary. Note: The Department accepts that the initial Landscape Management Plan may not include the detailed Long-Term Management Strategy. However, a conceptual strategy must be included in the initial plan, along with a timetable for augmentation of the strategy with each subsequent review of the plan.</p>	<p>Management Plan had not been implemented:</p> <ul style="list-style-type: none"> <li>• quarterly visual inspections of weed infestation and presence within the Quarry Site;</li> <li>• Should the quarterly visual inspections identify weed infestations, additional weed control programs will be undertaken;</li> </ul> <p>Implement a twice annual weed treatment and reporting program</p>	<p>While not formally recorded, regular visual inspections of weed infestation is carried out by quarry staff. A quarterly visual inspection sheet will be formatted so formal records are kept.</p>	20-Dec-19
N-06	Schedule 3, Condition 35	<p>Within 3 months of each Independent Environmental Audit (see condition 8 of schedule 5), the Proponent must review, and if necessary revise, the sum of the rehabilitation bond to the satisfaction of the Secretary. This review must consider:</p> <ul style="list-style-type: none"> <li>• the effects of inflation;</li> <li>• the area proposed to be disturbed in the next 3 years and any changes to the total area of disturbance; and</li> <li>• the performance of the rehabilitation to date.</li> </ul>	<p>Unable to verify that the sum of the rehabilitation bond had been reviewed and revised to the satisfaction of the Secretary.</p>	<p>The rehabilitation bond was reviewed and revised to the satisfaction of the Secretary on 27 April 2017. The bond will again be reviewed as required with the submission of the IEA.</p>	Next review is due 11 November 2019
N-07	Schedule 3, Condition 36	<p>The Proponent must prepare an Aboriginal Cultural Heritage Management Plan for the project to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> <li>(a) be prepared in consultation with OEH and Registered Aboriginal Parties, and be submitted to the Secretary for approval prior to any ground disturbance; and</li> <li>(b) be prepared by suitably qualified and experienced person/s;</li> <li>(c) be submitted to the Secretary for approval within 3 months of approval of Modification 2;</li> <li>(d) include a protocol for monitoring ground disturbance associated with construction activities or quarrying operations;</li> <li>(e) describe the measures to be implemented on the site or within any offset area to: <ul style="list-style-type: none"> <li>(i) ensure all workers on the site receive suitable Aboriginal cultural heritage inductions prior to carrying out any activities which may cause impacts to Aboriginal objects or Aboriginal places, and that suitable records are kept of these inductions;</li> <li>(ii) protect, monitor and manage Aboriginal objects and Aboriginal places identified (including any proposed archaeological investigations and salvage measures);</li> <li>(iii) protect Aboriginal objects and Aboriginal places located outside the approved disturbance area from impacts of the development;</li> <li>(iv) manage any new Aboriginal objects or Aboriginal places discovered during the life of the project;</li> <li>(v) maintain and manage reasonable access for relevant Aboriginal stakeholders to Aboriginal objects and Aboriginal places (outside of the approved disturbance area); and</li> <li>(vi) facilitate ongoing consultation and involvement of Registered Aboriginal Parties in the conservation and management of Aboriginal cultural heritage on the site</li> </ul> </li> </ul> <p>The Proponent must implement the Aboriginal Cultural</p>	<p>Site induction program does not include site-specific Aboriginal cultural heritage details.</p>	<p>Hanson will be creating a site specific induction, including the requirements set out as required within the Aboriginal Cultural Heritage Management Plan.</p>	20-Dec-19

N-08	Water Access Licence WAL36530	<p>The licence holder must record the following in the logbook:</p> <p>(i) each date and period of time during which water is taken under this licence;</p> <p>(ii) the volume of water taken on that date;</p> <p>(iii) the water supply work approval number of the water supply work used to take the water on that date;(iv) the purpose or purposes for which the water taken on that date.</p>	While a logbook was available, the logbook had not been completed since 2017. It was noted that the bore pump runs continuously during daylight hours.	Hanson will be installing an in-line metering system that will continuously provide a digital reading of water pumped. It's important to note that the allowable flow rate from the pump and bore is below the allowable water take of the equipment as annually advised within the site's Annual Review to DPIE.	9-Jan-20										
N-09	EPL 20190, M1.3	<p>The following records must be kept in respect of any samples required to be collected for the purposes of this licence:</p> <p>a) the date(s) on which the sample was taken;</p> <p>b) the time(s) at which the sample was collected;</p> <p>c) the point at which the sample was taken; and</p> <p>d) the name of the person who collected the sample.</p>	Dust deposition monitoring reports did not include the time samples were collected or the name of the person who collected the sample.	Consultant has now been notified to follow the requirements as stipulated within the AQMP.	Completed.										
N-10	EPL 20190, M2.2	<p>Air Monitoring Requirements</p> <table border="1" data-bbox="373 581 877 656"> <tr> <td data-bbox="373 581 474 626">2,3,4</td> <td data-bbox="474 581 575 626">Deposited Dust</td> <td data-bbox="575 581 676 626">g/m2/month</td> <td data-bbox="676 581 777 626">Monthly</td> <td data-bbox="777 581 877 626">AS3580.10 .1-2003</td> </tr> <tr> <td data-bbox="373 626 474 656">5</td> <td data-bbox="474 626 575 656">PM<sub>10</sub></td> <td data-bbox="575 626 676 656">ug/m<sup>3</sup></td> <td data-bbox="676 626 777 656">Continuous</td> <td data-bbox="777 626 877 656">AS2724.4</td> </tr> </table>	2,3,4	Deposited Dust	g/m2/month	Monthly	AS3580.10 .1-2003	5	PM <sub>10</sub>	ug/m <sup>3</sup>	Continuous	AS2724.4	Continuous monitoring of PM <sub>10</sub> has not been conducted. The monitor had been out of service since April 2019.	<p>The DustTrak unit has been upgraded to a new telemetry system which caused the delay.</p> <p>When the unit requires repair/service/upgrading a stand-in unit will be hired so that there is minimal disruption to air quality monitoring at the site.</p>	None required
2,3,4	Deposited Dust	g/m2/month	Monthly	AS3580.10 .1-2003											
5	PM <sub>10</sub>	ug/m <sup>3</sup>	Continuous	AS2724.4											
N-11	EPL 20190, M4.2	The licensee is required to provide the EPA with a Noise Impact Assessment document no later than one month after the attended noise monitoring required by condition M4.1 was carried out that outlines the findings of this noise monitoring.	No records that a Noise Impact Assessment document had been submitted to the EPA within one month of the attended noise monitoring.	The EPA will now be receiving a copy of the attended noise monitoring report within one month of attended noise monitoring.	None required										
N-12	EPL 20190, M8.1	<p>For each discharge point or utilisation area specified below, the licensee must monitor:</p> <p>a) the volume of liquids discharged to water or applied to the area;</p> <p>b) the mass of solids applied to the area;</p> <p>c) the mass of pollutants emitted to the air;</p> <p>at the frequency and using the method and units of measure, specified below.</p> <p style="text-align: center;"><b>Point 6</b></p> <table border="1" data-bbox="373 1003 877 1091"> <tr> <td data-bbox="373 1003 474 1091">Continuous during discharge</td> <td data-bbox="474 1003 575 1091">kilolitres per day</td> <td data-bbox="575 1003 877 1091">Flow meter and continuous logger</td> </tr> </table>	Continuous during discharge	kilolitres per day	Flow meter and continuous logger	A flow meter and continuous monitor had not been installed to monitor volume and flow rate of discharge.	Hanson will be installing an in-line metering system that will continuously provide a digital reading of water pumped. It's important to note that the allowable flow rate from the pump and bore is below the allowable water take of the equipment as annually advised within the site's Annual Review to DPIE.	9-Jan-20							
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