

Hy-Tec Industries Pty Ltd Austen Quarry

Independent Environmental Audit:

**Austen Quarry
SSD-6084, NSW**

Audit Number: 1227.01

November 2017

Prepared by



Independent Audit Certification Form

Development Name Austen Quarry
Development Consent No. SSD-6084
Description of Development Hard Rock Quarry
Development Address 391 Jenolan Caves Road Hartley NSW
Operator Hy-Tec Industries Pty Ltd (Hy-Tec)
Operator Address Gateway Business Park U 4 63-79 Parramatta Rd Silverwater, NSW 2128

Independent Audit

Title of Audit Independent Environmental Audit: Austen Quarry SSD-6084, NSW

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



Name of Lead or Principal Auditor James Hart
Address 426 King Street Newcastle
Email Address James.hart@aquas.com.au
Auditor Certification Exemplar Global Lead Environmental Auditor No 12107
Date 7 February 2018

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Abbreviations

AQMP	Air Quality Management Plan
BOMP	Biodiversity Offset Management Plan
BMP	Blasting Management Plan
DA	Development Approval
DPE	Department of Planning and Environment
EMS	Environmental Management Strategy
EPA	Environment Protection Authority
EPL	Environment Protection Licence
HMP	Heritage Management Plan
LRMP	Landscape and Rehabilitation Management Plan
NMP	Noise Management Plan
NOW	NSW Office of Water
OEH	Office of Environment and Heritage
RMS	Roads and Maritime Services
SLMGMP	Silver Leaved Mountain Gum Management Plan
TMP	Traffic Management Plan
WAL	Water Access Licence
WMP	Water Management Plan

1 INTRODUCTION

1.1 Overview

Hy-Tec Industries Pty Ltd (Hy-Tec) operate the Austen Quarry, an existing hard rock quarry located at 391 Jenolan Caves Road Hartley NSW. The quarry is located within Lots 1, 2 DP 1000511, Lot 31 DP 1009967 and Lot 4 DP 876394, and is surrounded by agricultural land holdings.

Hy-Tec was granted Development Approval on 15 July 2015 for the Austen Quarry Extension (SSD_6084). The previous approval (DA103/94) was surrendered on 15 September 2016, with operations under SSD_6084 formally commencing on this date.

The conditions of approval require Hy-Tec Industries Pty Ltd 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 within one year of the date of the commencement of quarrying operations, and every 3 years thereafter, unless the Secretary of the DPE directs otherwise. The condition requires the proponent to commission and pay the full cost of the audit. The audit must:

- a) Be 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;
- c) Assess the environmental performance of the project, and whether it is complying with the relevant requirements in this consent and any relevant EPL or necessary water licences for the development (including any assessment, strategy, plan or program required under these approvals);
- d) Review the adequacy of any strategy/plan/program required under this approval; and, if necessary
- e) Recommend appropriate measures or actions to improve the environmental performance of the development, or any assessment, strategy, plan or program required under the abovementioned approvals.

1.2 Audit Objectives

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

1.3 Audit Scope and Criteria

The scope of this audit was limited to the site, being Lots 1, 2 DP 1000511, Lot 31 DP 1009967 and Lot 4 DP 876394, and the activities and processes carried out by Hy-Tec in operating the quarry. The audit is the first for the project and covered the period since between when operations commenced under SSD_6084 and the date of the site inspection, i.e. 15 September 2016 to 17 October 2017.

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 with 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 and Environment on 20 September 2017.

No additional specialist auditors were required for the project.

2.2 Approvals and Documents Audited

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

- Development Approval – SSD_6084;
- Air Quality Management Plan – Austen Quarry, Final November 2016;
- Blasting Management Plan– Austen Quarry, Final November 2016;
- Noise Management Plan – Austen Quarry, Final November 2016;
- Traffic Management Plan – Austen Quarry, Final November 2016;
- Water Management Plan – Austen Quarry, Final October 2016;
- Landscape and Rehabilitation Management Plan – Austen Quarry, Final November 2016;
- Environmental Management Strategy – Austen Quarry, Final September 2016;
- Silver Leaved Mountain Gum Management Plan - Austen Quarry, Final October 2016;
- Environmental Protection Licence No 12323, NSW EPA, 12/12/2016;
- Austen Quarry Annual Review, 16 September 2016 to 30 June 2017;
- Austen Quarry Complaints Register, January 2017; and
- Water Access Licences 25616 and 37423.

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.

Contact	Agency	Comments
John Galea - Water Regulation Officer	NSW Department of Primary Industries Water	Sediment dams construction and maintenance. Groundwater monitoring – requirements Riverbank impacts Water extraction from Cox’s river – quantity and records.
Celestino Di Falco, Regional Operations Officer – Central West	NSW EPA	Surface water management and the Surface Water Management Plan required under the Stage 2 project approval. Uncontrolled discharge to Cox’s River November 2011 Compliance Assurance Audit completed April 2015 Dust complaint October 2014 Receival of waste from within the regulated area – 2012.
Paul Cashel Team Leader Development Planning Economic Development & Environment	Lithgow City Council	No specific issues.
Melanie Hollis	Department of Planning and Environment	No specific issues.

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
Darryl Thiedeke	National Planning and Development Manager	Hy-Tec	17/10/17
Rod Welsh	Quarry Manager	Hy-Tec	17/10/17
Daniel Reed	Strategy and Business Development	Hy-Tec	17/10/17
Nicholas Warren	Environmental Consultant	R.W. Corkery and Co. Pty Limited	17/10/17

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 08.00am, 17 October 2017, in the Austen 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 Hy-Tec, with records generally available during the audit. Additional records were provided subsequent to the onsite audit.

A site inspection was then conducted, and 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 clearing, crushing and loading operations.

A closing meeting was held at 7.30pm on 17 October 2017 where the preliminary audit findings were presented. Where aspects of the audit remained unresolved, Hy-Tec was requested to provide additional information. This information was provided on 2 November 2017 and 15 November 2017.

2.6 Audit Compliance Definitions

Compliant	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit
Not verified	Where the auditor has not been able to collect sufficient verifiable evidence to demonstrate that the intent and all elements of the requirement of the regulatory approval have been complied with within the scope of the audit.
Non-compliance	Where the auditor has collected sufficient verifiable evidence to demonstrate that the intent of one or more specific elements of the regulatory approval have not been complied with within the scope of the audit.
Administrative non-compliance	A technical non-compliance with a regulatory approval that would not impact on performance and that is considered minor in nature (e.g. report submitted but not on the due date, failed monitor or late monitoring session).
Not triggered	A regulatory approval requirement has an activation or timing trigger that had not been met at the time of the audit inspection, therefore a determination of compliance could not be made.
Observation	Observations are recorded where the audit identified issues of concern which do not strictly relate to the scope of the audit or assessment of compliance. Further observations are considered to be indicators of potential non-compliances or areas where performance may be improved.
Note	A statement or fact, where no assessment of compliance is required.

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 Austen 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 Hy-Tec 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 of various size grades;
- Loading of trucks for dispatch; and
- Operation of excavator and front end loader.

The attached checklists record the outcomes of the audit process. Five non-compliances and eighteen administrative non-compliances were identified, where compliance with the conditions of consent, EPL, or management plans could not be verified. The following sections summarise key findings for review and action by Hy-Tec as appropriate.

It should be noted that approval of the water management plan was received on 16 October 2017, the day prior to this audit.

3.2 Development Consent (SSD_6084)

Schedule 2 – Administrative Controls

The site had implemented processes to generally ensure compliance with the administrative control requirements of the conditions of consent. Review of administrative controls did not identify any non-compliance.

Two administrative non-compliances were raised in relation to administrative controls. A survey of the boundary of the approved limits of extraction had not been completed by the required date (30 September 2015). This issue had been raised in an audit conducted by DPE in November 2015 and subsequently actioned and closed out. The second administrative non-compliance was raised as the voluntary planning agreement with Council had not been entered into within 6 months of the date of the consent. It was noted that the delay in reaching the final agreement were not the result of Austen Quarry's inactivity.

Schedule 3 – Environmental Performance Conditions

All of the required management plans had been developed and provided to DPE for review and approval. Arrangements to satisfy offsetting obligations under SSD_6084 had not been finalised at the time of audit; however, this matter is the subject of a proposed modification to SSD_6084, and hence is not viewed as a non-compliance.

One administrative non-compliance was identified in relation to environmental performance conditions. Noise monitoring had been conducted on an annual basis, not six monthly as required by the conditions of consent. This issue had been addressed and actions taken to prevent reoccurrence.

Schedule 4 – Additional Procedures

Conditions of Approval under Schedule 4 Additional Procedures had not been triggered.

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.

One administrative non-compliance was identified in relation to environmental reporting. Approval of the independent environmental auditor, and hence commissioning of the independent environmental audit, had not been completed within one year of the date of consent (due by 15/09/17). Submission of the auditor details was provided on 15/09/17, with approval provided on 20/09/17.

3.3 Environmental Protection Licence (EPL 12323)

An EPL 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 air and water, and complaints management and reporting processes have been implemented and met.

Review of the NSW EPS public register found that no non-compliances had been raised in the 2016-2017 monitoring period.

3.4 Air Quality Management Plan

The Air Quality Management Plan requires all personnel and contractors working at the Quarry undergo an induction which includes information on the air quality management while working on the site. While an induction process had been implemented, the induction did not include information on air quality management. This issue was included in non-compliance N-01.

3.5 Water Management Plan

While compliance with aspects of the Water Management Plan was found, one non-compliance was raised in respect to training in water management.

The Water Management Plan requires all personnel and contractors working at the Quarry undergo an induction which includes information on the management of water while working on the site. While an induction process had been implemented, the induction did not include information on the management of water while working on the site. This issue was included in non-compliance N-01.

3.6 Landscape and Rehabilitation Management Plan

Requirements of the Landscape and Rehabilitation Management Plan (LRMP) had generally been implemented. Clearing had recently been conducted under the guidance of a specialist consultant, Onsite Environmental.

Landscaped areas on site had predominantly been landscaped prior to implementation of the current LRMP.

The Landscape and Rehabilitation Management Plan requires all personnel and contractors working at the Quarry undergo an induction which includes information on the management of landscaping and rehabilitation while working on the site. While an induction process had been implemented, the induction did not include information on the management of landscaping and rehabilitation while working on the site. This issue was included in non-compliance N-01.

Erosion and sediment controls had been established and maintained.

The LRMP identifies requirements for the monitoring of weeds and feral animals on a routine basis. However, no records of monitoring of weeds and feral animals as required were available. These issues were raised as non-compliances.

3.7 Noise Management Plan

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.

The Noise Management Plan requires all personnel and contractors working at the Quarry undergo an induction which includes information on the noise management while working on the site. While an induction process had been implemented, the induction did not include information on noise management. This issue was included in non-compliance N-01.

In addition, while noise monitoring had been conducted, monitoring had not been conducted at least every 6 months. This issue was raised as an administrative non-compliance.

3.8 Blast Management Plan

The audit found that the site was in compliance with requirements of the Blast Management Plan. Blasting had been undertaken in accordance with the requirements of the management plan, including monitoring of blasts. No exceedences of blast criteria had been recorded.

The Blast Management Plan requires all personnel and contractors working at the Quarry undergo an induction which includes information on the blast management while working on the site. While an induction process had been implemented, the induction did not include information on blast management. This issue was included in non-compliance N-01.

3.9 Biodiversity Offset Management Plan

While a Biodiversity Offset Management Plan had been developed, arrangements to provide appropriate long-term security for the Biodiversity Offset Strategy were yet to be finalised. Approval had been provided by DPE for the conditioned timeframe to be changed to 2 years from the commencement of work under the consent (15/09/16) to make suitable arrangements.

3.10 Silver Leaved Mountain Gum Management Plan

A Silver Leaved Mountain Gum Management Plan had been approved by the Commonwealth Department of Energy and the Environment. Seeds for the propagation of plants had been sourced from the site, and it was reported that approximately 2000 plants were available for planting.

A non-compliance was identified in relation to the conservation exclusion areas and the biodiversity offset area not being included in the site induction while an administrative non-compliance was raised as the site had yet to develop a procedure for the replanting of rehabilitation areas.

3.11 Traffic Management Plan

The audit found that the site was in compliance with requirements of the Traffic Management Plan.

3.12 Environmental Management Strategy

An Environmental Management Strategy (EMS) had been developed and implemented for the site.

While compliance with aspects of the EMS was found, 5 non-compliances and 6 administrative non-compliances were identified where the implementation of the requirements of the EMS had not been adequately demonstrated.

Non-compliances were raised in relation to the provision of identified training and awareness programs for communication of environmental requirements for the site. While training was identified in management plans, a training program to inform workers and visitors to the site had not been documented and implemented. Non-compliances were also raised in relation to the completion of identified inspections and monitoring requirements, and implementation of protective measures for rehabilitated areas.

Administrative non-compliances were raised in relation to the availability of safety data sheets for all chemicals on site, routine inspections of spill kits and weeds, maintenance of bunds and completion of an annual bushfire assessment.

3.13 Water Access Licences

Water access licences have been obtained for extraction of surface water from the Coxs River (WAL 25616) and groundwater from the quarry pit (WAL 37423).

Water Access Licence 25616 only permits the taking of water when flows in the Coxs River at the Island Hill gauge is equal to or less than 17 ML/day on a rising river, or equal to or less than 15 ML/day on a falling river. While flows in the Coxs River at the point of extraction were recorded, flows at the Island Hill gauge had not checked prior to the taking of water from the river. This issue was raised as a non-compliance. In addition, the licence requires a logbook was maintained which included meter reading, river flow and time recorded at the start and end time of pumping. However, the time that pumping commenced and finished was not always recorded. This was raised as an administrative non-compliance.

Water Access Licence 37423 required, within 6 months of granting the approval, a monitoring plan to measure the water table, groundwater and surface water quality be submitted to, and approved by, the relevant licensor, Parramatta Office. While a Water Management Plan had been prepared, the plan had not been submitted to and approved within the required timeframe. This issue was raised as an administrative non-compliance.

3.14 Areas of Non-compliance

Issue No.	Risk Rating	Condition	Requirement	Issue sighted
N-01	Low	Environmental Management Strategy 3.3	A training package detailing the importance of observing all environmental safeguards and outlining the potential environmental impacts will be implemented for all personnel working on-site. This may be done at the following stages: <ul style="list-style-type: none"> • At the commencement of employment as part of the employee's site induction and safety procedures briefing. • At least every 24 months thereafter. • At any stage, should there be a change in operational procedures 	A definitive training package had not been prepared and implemented.
N-02	Low	Environmental Management Strategy 3.4	Visual inspections of stormwater, sediment and erosion control prior to, and following wet season and/or major rainfall events (>25mm in 24hours)	Records do not demonstrate inspections of sediment and erosion control had been conducted prior to high rainfall events.
N-03	Low	Environmental Management Strategy 3.4	Prevent the spread of weeds through site by: Visual weed inspections of machinery entering site; and Quarterly weed inspections of the site.	Inspections required to be conducted for the management of weeds had not been completed. No records were available for inspection of machinery entering site. Quarterly weed inspections had not been conducted.

N-04	Low	Environmental Management Strategy 6.10.5	Employees should be able to recognise existing and potential weeds present on-site and within the surrounding area to ensure they are not inadvertently brought in via items contaminated by seed	No records to demonstrate that workers had been trained in the identification of weeds on site.
N-05	Low	Environmental Management Strategy 6.11.5	Have markers, fencing or flagging been provided around vegetation to be protected or areas undergoing rehabilitation?	Markers, fencing or flagging had not been provided around vegetation to be protected or areas undergoing rehabilitation.
N-06	Low	Water Access Licence 25616 MW0017-00023	From 1 July 2011, water must not be taken from the Dharabuladh Management Zone of the Upper Nepean and Upstream Warragamba Water Source when flows are in the Very Low Flow Class, which means that the flow at Coxs River at the Island Hill gauge [No. 212045] is: A. equal to or less than 17 ML/day on a rising river, or B. equal to or less than 15 ML/day on a falling river. This restriction does not apply if water is to be taken from a runoff harvesting dam or an in-river dam pool.	Visual observation of water flow in the river was recorded at the commencement of pumping. The flow at the Island Hill gauge was not verified prior to pumping.

3.15 Areas of Administrative Non-compliance

Issue No.	Condition	Requirement	Issue sighted
A-01	Administrative Controls 18	By 30 September 2015, unless otherwise agreed with the Secretary, the Applicant shall: (a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the development area; and (b) submit a survey plan of these boundaries with applicable GPS coordinates to the Secretary.	Survey not completed by 30 September 2015. This was raised as an administrative non-compliance by DPE in an audit in November 2015.
A-02	Administrative Controls 20	Within 6 months of the date of this consent, unless otherwise agreed by the Secretary, the Applicant shall enter into a planning agreement with the Council in accordance with division <ul style="list-style-type: none"> • Division 6 of Part 4 of the EP&A Act; and • the terms specified in Appendix 7. 	While discussions on the VPA had commenced with Council on 7/08/15, the voluntary planning agreement had not been entered into with Council within 6 months of the date of the consent.
A-03	Schedule 3 - Environmental Performance Conditions 4 Schedule 5- Environmental Management, Reporting and Auditing 10 Noise Management Plan 8.4.3	The Applicant shall: (a) implement best practice management to minimise the operational and road transportation noise of the development; (b) minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 5); (c) carry out noise monitoring (at least every 6 months, unless otherwise approved by the Secretary) to determine whether the development is complying with the relevant conditions of this consent; and (d) regularly assess noise monitoring data and modify and/or stop operations on site to ensure compliance with the relevant conditions of this consent, to the satisfaction of the Secretary.	Noise monitoring had not been conducted on a six monthly basis. Noise monitoring conducted September 2016 and September 2017.

Issue No.	Condition	Requirement	Issue sighted
A-04	Schedule 5- Environmental Management, Reporting and Auditing 8	Within a year of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must: (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary; (b) include consultation with the relevant agencies; (c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL or necessary water licences for the development (including any assessment, strategy, plan or program required under these approvals); (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and (e) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, strategy, plan or program required under the abovementioned approvals.	The approval of the auditor, and hence commissioning of the Independent Environmental Audit had not been completed by 15/09/17.
A-05	Landscape and Rehabilitation Management Plan 8.3.1.1	Signs will be placed on selected survey markers to highlight the ecological sensitivity of the BOA to contractors and staff.	Signs have not been installed at this stage. Noted that while a biodiversity offset area had been identified, the biodiversity offset strategy had not been finalised at the time of audit.
A-06	Landscape and Rehabilitation Management Plan 8.3.2 Biodiversity Offset Management Plan 3.3	Monthly boundary inspections and any breaches rectified within 4 weeks.	Reported to have been completed however no records available.
A-07	Landscape and Rehabilitation Management Plan 8.3.2	Implement an access track management strategy.	Development of the access track management strategy had not commenced at time of audit.

Issue No.	Condition	Requirement	Issue sighted
A-08	Landscape and Rehabilitation Management Plan 8.4.1.4 8.4.1.5	Vegetation will be cleared in a way that maximises the opportunity for recycling Operators will be instructed to handle soil as little as possible.	No evidence of communication of requirements for vegetation clearing and soil stripping to operators
A-09	Landscape and Rehabilitation Management Plan 8.4.1.5	To ensure the value of the soils to be disturbed is maximised, the following management measures will be implemented for topsoil stripping, stockpile management and soil respreading.	Evidence that the requirements for the management of disturbed soils had been communicated to workers involved in the activities was not available.
A-10	Noise Management Plan 8.4.3	Attended noise monitoring will be undertaken using a hand-held noise meter. The maximum (L_{Amax}), and the energy equivalent (L_{Aeq}) intrusive noise level over a 15 minute measurement period will be recorded. If necessary, other descriptors such as L_{A10} , L_{A50} , L_{A90} , L_{A99} and L_{Amin} could also be recorded. Wherever possible, the L_{A90} noise level (i.e. without contributions from Quarry activities) will be recorded to identify the prevailing a background noise level.	Attended monitoring conducted on an annual basis. Conducted September 2016 and September 2017. $L_{Aeq15min}$ reported. L_{Amax} not reported in September 2016 Noise report.
A11	Noise Management Plan 8.6	A noise monitoring report will be prepared by the person or company responsible for the monitoring within 7 days of each attended noise monitoring event.	Noise monitoring reports had not been provided within 7 days of each noise monitoring event.
A12	Biodiversity Offset Management Plan 3.3	Clearly delineated conservation exclusion zones within and around the existing Quarry and Stage 2 Extension will be implemented following approval of the BOMP to exclude movement of vehicles, plant and staff within rehabilitation areas and the BOA.	Markers, fencing or flagging had not been provided around vegetation to be protected or areas undergoing rehabilitation.
A13	Silver Leaved Mountain Gum Management Plan 4.6	Are the requirements of Section 4.6 of the SLMGMP for the replanting of rehabilitation areas communicated to workers?	While Section 4.6 of the SLMGMP provides requirements for the replanting and rehabilitation of disturbed areas, a rehabilitation procedure for was not available, and evidence that the requirements of Section 4.6 had been communicated to workers involved in rehabilitation was not available.
A-14	Environmental Management Strategy 3.4	Update Material Safety Data Sheet Register – Event based or annually.	While a hazardous chemicals register including safety data sheets was available, some SDS provided were greater than 5 years old.

Issue No.	Condition	Requirement	Issue sighted
A-15	Environmental Management Strategy 3.4	Confirm sufficient spill response equipment is supplied and properly maintained - Quarterly or following use of a spill kit.	While Spill kits had been provided, no records of inspection of the spill kits available.
A-16	Environmental Management Strategy 3.4	Stormwater captured within any bunding is to be removed as soon as practicable after a rain event and disposed of as contaminated water. Spills within bunded areas must be cleaned up as soon as practicable	Small volume of diesel in sump under diesel tank. Bunded area had not been maintained to ensure spills within the bund are quickly cleaned up and removed.
A-17	Environmental Management Strategy 6.9.6	Bi-annual weed inspection and herbicide treatment program shall be undertaken or as required.	While an annual inspect had been conducted by Onsite Environmental, weed inspections were not conducted on a bi-annual basis.
A-18	Environmental Management Strategy 6.12.6	The Quarry Manager to undertake a visual assessment annually to assess adequacy of the bushfire control measures implemented.	No records to show that a specific annual visual assessment has been conducted to assess the adequacy of bushfire control measures.
A-19	Water Access Licence 25616 MW2337-00001	The following information must be recorded in the logbook for each period of time that water is taken: A. date, volume of water, start and end time when water was taken as well as the pump capacity per unit of time, and B. the access licence number under which the water is taken, and C. the approval number under which the water is taken, and D. the volume of water taken for domestic consumption and/or stock watering.	Water access licence was included in the logbook. While a logbook was maintained which included meter reading, river flow and time recorded at the commencement of pumping, the start and end time was not always recorded.
A-20	Water Access Licence 37423 DS2431-00001	Within 6 months of granting this approval, a monitoring plan to measure the water table, groundwater and surface water quality must be submitted to, and approved by, the relevant licensor, Parramatta Office.	While a Water monitoring program has been developed and approved for the site, the Water Monitoring Plan had not been submitted to and approved by NOW within 6 months of granting of the licence.

3.16 Observations

No observations were raised.

3.17 Areas of compliance

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

4 CONCLUSIONS

On the basis of the findings of this audit, it is considered that Hy-Tec has generally complied with the requirements of the approval conditions. No non-compliances with the approval conditions were identified, however, five administrative non-compliances were raised where, while the conditions of consent had been complied with, compliance had not been achieved within the required timeframes.

Compliance with the requirements of the environmental protection licence was verified.

Six non-compliances and 20 administrative non-compliances were raised where compliance with the requirements of the water access licences, management plans prepared for the site or conditions of consent was not demonstrated. Hy-Tec should ensure that actions are identified and implemented to address the findings contained within this audit to enable compliance with the development obligations and ensure environmental impacts of the developments are appropriately managed.

ATTACHMENTS

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

CIRCULATION

- ✓ **Hy-Tec Pty Ltd**
- ✓ **AQUAS Pty Ltd**

5 Substantive Changes.

The following substantive changes were made as the result of a review of the draft audit report provided to Hy-Tec.

<p>Schedule 3 Environmental Performance Conditions</p> <p>Environmental Management Strategy 6.11.5</p>	<p>Within 6 months of the approval of the Landscape Management Plan, the Applicant shall lodge a Conservation and Rehabilitation Bond with the Department to ensure that the Biodiversity Offset Strategy and rehabilitation of the site are implemented in accordance with the performance and completion criteria set out in the plan and relevant conditions of this consent. The sum of the bond shall be determined by:</p> <p>(a) calculating the cost of implementing the Biodiversity Offset Strategy over the next 3 years;</p> <p>(b) calculating the cost of rehabilitating the site, taking into account the likely surface disturbance over the next 3 years of quarrying operations; and</p> <p>(c) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary.</p>	<p>Letter from DPE 25/07/17 requiring the Rehabilitation bond to be lodged no later than the 22/08/2017. Acknowledgement of receipt by DPE provided 23/08/17. Conservation and Rehabilitation Bond had not been lodged by the 22/08/2017.</p>	<p>Evidence provided to demonstrate that the bond was submitted on 17 August 2017.</p>
<p>Environmental Management Strategy 3.4</p>	<p>Bund walls must be no less than 250mm in height.</p>	<p>While bunding had been provided, bund walls were not always at least 250mm high.</p>	<p>Clarified that the bund wall had been constructed prior to implementation of the Environmental Management Strategy.</p>

Assessment for compliance with the water access licences, including checklists included in report. Additional one non-compliance and two administrative non-compliances included.



CV – James Hart

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 Work Health and Safety Auditor – Audit Panel for ACT Government Procurement and Capital Works
- ✓ Lead Quality, Safety, Environmental and Risk Auditor – Sydney Trains SEQR Audit Panel
- ✓ Lead Quality, Safety, Environmental and Risk Auditor – NSW TrainLink
- ✓ Lead WHS Auditor - TfNSW Lead Auditor Support Resource Panel
- ✓ Lead Quality, Safety, Environmental Auditor – Transgrid Audit Panel
- ✓ Quality, safety and environmental representative for the
- ✓ 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 is an Exemplar Global certified Lead Management Systems Auditor and has been certified to audit quality, environmental and OHS Management systems, as well as integrated management systems. He has conducted over 300 audits for SAI Global (certification, surveillance and recertification) covering OHS, Quality and Environmental management systems in Australia, the United Kingdom and Europe.

James is the a lead auditor on the audit panels for ACT Government, Transgrid, Sydney Trains, South Australian Rail Commissioner, Department of Defence WHS Panel and NSW Roads and Maritime Services. James is also the Independent Certifier's Safety Review Manager for the NWRL, Sydney Light Rail, Westconnex and the Northconnex projects.

James has experience in conducting quality, environmental and occupational health and safety system and compliance audits across a range of industries, including building construction, road construction, rail, heavy industrial, light industrial and commercial developments. Audits have included all aspects of the management process, including design, construction, commissioning, operations and maintenance. Services provided include the assessment of project documentation against legislative and project requirements, and verification of implementation of project requirements. Examples include:

- ✓ Assessment of contractor documentation for prequalification with NSW Roads and Maritime Services;
- ✓ Participation in design reviews for projects on behalf of TfNSW (e.g. RLA Audit Assignment "CP13-30 Design Management - Schofield Road Underpass and Urban & landscape design).
- ✓ Lead Environmental auditor – 3rd Party Environmental audits on behalf of Gladstone Ports Corporation for the Western Basin Dredging and Disposal project.
- ✓ Lead Environmental auditor – 3rd Party Environmental audits on behalf of Gladstone Ports Corporation for the WICET dredging project.
- ✓ Environmental auditor – Independent audit of the Mackas Sands Sand Extraction, Lot 218 and Lot 220, Salt Ash on behalf of the NSW Department of Planning and Infrastructure.
- ✓ 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;
- ✓ Nabic 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

- ✓ 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.

1989- 2004: GENKEM PTY LTD

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.

2004 – 1989: CSR WOOD PANELS

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.

1977- 1982: BHP LABORATORIES

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.

Audit Checklist - Conditions of Approval – SSD-6084


AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Schedule 3– Administrative Controls					
Obligation to Minimise Harm to the Environment					
1.	1	In addition to meeting the specific performance measures and criteria established under this consent, the Applicant shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the development.	No material harm to the environment as a result of the operations had been reported.	C	
Terms of Consent					
2.	2	The Applicant shall carry out the development: (a) generally in accordance with the (a) EIS; (b) in accordance with the Development Layout and Statement of Commitments; and (c) in accordance with the conditions of this consent.	Results of this audit show that the development has been carried out in general accordance with requirements.	C	
3.	3	If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.		Note	
4.	4	The Applicant shall comply with any reasonable requirement/s of the Secretary arising from the Department’s assessment of: (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent; (b) any reviews, reports or audits undertaken or commissioned by the Department regarding compliance with this consent; or (c) the implementation of any actions or measures contained in these documents.	The audit results show that the applicant had complied with the requirements of the Secretary.	C	

Independent Audit Report - Austen Quarry Rev 01 .docx	Audit Compliance Codes: C: Compliant; N: Non-compliance; A: Administrative non-compliance; O: Observation; NV: not verified; NT: Not Triggerred; Note: No assessment of compliance required	Page 19
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AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Lapsing of Consent					
5.	5	If the development has not been physically commenced within 5 years of the date of this consent, then this development consent shall lapse.	Commencement under the current development commenced on 16/09/16 (Council approval surrendered 15/09/16). Letter to Lithgow City Council sighted 15/09/16.	C	
Limits of Consent					
6.	6	The Applicant shall not extract extractive materials below a level of 685 m AHD.	Current level 705m. AHD.	C	
7.	7	Quarrying operations may take place on site until 30 August 2050	Current year 2017.	Noted	
8.	8	The Applicant shall not: <ul style="list-style-type: none"> transport more than 1.1 million tonnes of quarry products from the site during any financial year. Dispatch more than 250 laden trucks from the site on any day, and Dispatch more than 150 laden trucks from the site per day, averaged over the total number of dispatch days in any calendar month 	Summary for 2016-2017 financial year showed 1,058,563 tonnes sold and transported. Maximum number dispatched per day – 203 Average trucks per day 115. Average trucks per day averaged per month – maximum 137/ day in November 2016.	C	
9.	9	Within 12 months of the date of this consent, or as otherwise agreed by the Secretary, the Applicant shall surrender the development consent (DA 103/94) for the existing operations on the site in accordance with Section 104A of the EP&A Act	Consent date 15/07/15. DA103/94 surrendered 15/09/16. Two month extension granted to surrender the existing consent by 15/09/2016.	C	
10.	10	Prior to the surrender of the development consent DA 103/94, the conditions of this consent shall prevail to the extent of any inconsistency with the conditions of development consent DA 103/94.		Noted	
Structural Adequacy					
11.	11	The Applicant shall 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.	No new buildings have been erected on site since commencement of work under the current consent	NA	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Demolition					
12.	12	The Applicant shall ensure that all demolition work is carried out in accordance with Australian Standard AS 2601-2001: The Demolition of Structures, or its latest version.	No demolition works has been conducted	NA	
Protection of Public Infrastructure					
13.	13	The Applicant shall: (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development. Note: This condition does not apply to damage to roads caused as a result of general road usage.	No public infrastructure has been relocated or required repair as a result of the current development	NA	
Operation of Plant and Equipment					
14.	14	The Applicant shall ensure that all the plant and equipment used at the site is: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	Maintenance records are available. Maintenance undertaken by Manufacturer Komatsu. e.g. Machine WA500-6. Service records sighted for 500hr service, 10/11/16, Vehicle 2801-L02 2000 hr service 17/11/16.	C	
Updating and staging of strategies, plans or programs					
15.	15	To ensure that strategies, plans and programs required under this consent are updated on a regular basis, and that they incorporate any appropriate additional measures to improve the environmental performance of the development, the Applicant may at any time submit revised strategies, plans or programs for the approval of the Secretary. With the agreement of the Secretary, the Applicant may also submit any strategy, plan or program required by this consent on a staged basis. With the agreement of the Secretary, the Applicant may prepare a revision of or a stage of a strategy, plan or program without undertaking consultation with all parties nominated under the applicable condition in this consent.	Management plans have been prepared and submitted to DP&E.	C	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
16.	16	Until they are replaced by an equivalent strategy, plan or program approved under this consent, the Applicant shall implement the existing strategies, plans or programs for the site that have been approved under DA 103/94.	Noted	Note	
17.	17	The Applicant shall: 17. (a) provide annual quarry production data to DRE using the standard form for that purpose; and (b) include a copy of this data in the Annual Review (see condition 4 of Schedule 5).	Included in appendix E of the Annual review. Submitted on Form S1 – Return for Extractive Materials Year ended 30 June 2017.	C	
Identification of Approved Extraction Limits					
18.	18	By 30 September 2015, unless otherwise agreed with the Secretary, the Applicant shall: (a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the development area; and (b) submit a survey plan of these boundaries with applicable GPS coordinates to the Secretary.	Survey not completed by 30 September 2015. This was raised as an administrative non-compliance by DPI in an audit in November 2015. Survey completed 27/11/15. Updated 15/09/16.	A	01

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
19.	18	While quarrying operations are being carried out, the Applicant shall ensure that these boundaries are clearly marked at all times in a manner that allows operating staff to clearly identify the approved limits of extraction.	Markings have been provided to show boundaries. Survey mark with steel post inside the boundary. 	C	
Community Enhancement					
20.	20	Within 6 months of the date of this consent, unless otherwise agreed by the Secretary, the Applicant shall enter into a planning agreement with the Council in accordance with division <ul style="list-style-type: none"> • Division 6 of Part 4 of the EP&A Act; and • the terms specified in Appendix 7. 	Signed VPA sighted (10/08/16). Noted that discussions with Council re VPA had commenced 7/08/15.	A	02

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Schedule 3 - ENVIRONMENTAL PERFORMANCE CONDITIONS					
Noise					
21.	1	The Applicant shall comply with the operating hours set out in Table 1.	All truck loading managed by the CAS weighbridge system does not allow tare in of trucks before 5am. Work hours are 6am to 5pm, with a back shift working to 9pm. Working hours are communicated at induction.	C	
22.	2	The following activities may be carried out on the site outside the hours specified in condition 1: (a) delivery or dispatch of materials as requested by Police or other authorities; and (b) emergency work to avoid the loss of lives, property and/or to prevent environmental harm. In such circumstances, the Applicant shall notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter.	No work outside of approved hours was reported to have been undertaken.	NT	
Noise Impact Assessment Criteria					
23.	3	The Applicant shall ensure that the noise generated by the development does not exceed the criteria in Table 2 (Table 2: Noise criteria dB(A) at any residence on privately-owned land. (35dB(A) Noise generated by the development is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy. Appendix 5 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria. However, the noise criteria in Table 2 do not apply if the Applicant has an agreement with the relevant landowner to exceed the noise criteria in Table 2, and the Applicant has advised the Department in writing of the terms of this agreement.	Noise monitoring has been conducted by Todoroski Air Services – 5/09/17 to 12/09/17. Both unattended and attended noise monitoring conducted. Report concluded that noise from the development was below 35dB(A).	C	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Operating Conditions					
24.	4	<p>The Applicant shall:</p> <ul style="list-style-type: none"> (a) implement best practice management to minimise the operational and road transportation noise of the development; (b) minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 5); (c) carry out noise monitoring (at least every 6 months, unless otherwise approved by the Secretary) to determine whether the development is complying with the relevant conditions of this consent; and (d) regularly assess noise monitoring data and modify and/or stop operations on site to ensure compliance with the relevant conditions of this consent, to the satisfaction of the Secretary. 	<p>Attended noise monitoring conducted 5/09/16 and unattended noise monitoring conducted 7-12/09/16. Unattended and attended noise monitoring conducted 5/09/17 to 12/09/17.</p> <p>Noise monitoring had not been conducted on a six monthly basis.</p>	A	03
Noise Management Plan					
25.	5	<p>The Applicant shall prepare and implement a Noise Management Plan for the development to the satisfaction of the Secretary. This plan must:</p> <ul style="list-style-type: none"> (a) be prepared in consultation with the EPA; (b) be submitted to the Secretary for approval within 3 months of the commencement of quarrying operations under this consent, unless otherwise agreed by the Secretary; (c) describe the measures that would be implemented to ensure <ul style="list-style-type: none"> • compliance with the noise criteria and operating conditions of this consent; • best practice noise management is being employed; and • the noise impacts of the development are being minimised during meteorological conditions under which the noise criteria in this consent do not apply (see app 5) (c) describe the proposed noise management system in detail; and (d) include a monitoring program to be implemented to measure noise from the development against the noise criteria in Table 2, and which evaluates and reports on the effectiveness of the noise management system on site. 	<p>Noise management plan developed and submitted to the Secretary Version 1 15/06/16 submitted to DPE.</p> <p>Version 2 11/10/16. Quarrying operations commenced under the current consent on 16/09/16.</p>	C	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Blasting Impact Criteria					
26.	6	The Applicant shall ensure that blasting on site does not cause any exceedance of the criteria in Table 3. However, these criteria do not apply if the Applicant has a written agreement with the relevant landowner to exceed the limits in Table 3, and the Applicant has advised the Department in writing of the terms of this agreement.	Blast monitoring results show no exceedances of blasting criteria. Results provided in Appendix J of the Annual Review. No complaints related to blasting have been received.	C	
Blasting Frequency					
27.	7	The Applicant may carry out a maximum of 1 blast per calendar week, unless an additional blast is required following a blast misfire. This condition does not apply to blasts required to ensure the safety of the quarry or workers on site. <i>Note: For the purposes of this condition, a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the quarry.</i>	Blast data shows 2 blasts per month generally conducted. No instances where more than one blast per week had occurred.	C	
Operating Conditions					
28.	8	During blasting operations, the Applicant shall: (a) implement best management practice to: <ul style="list-style-type: none"> • protect the safety of people and livestock in areas surrounding blasting operations; • protect public or private infrastructure/property in the surrounding area from damage from blasting operations; and • minimise dust and fume emissions from blasting; (b) operate a suitable system to enable the local community to get up-to-date information on the proposed blasting schedule on site; and (c) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent, to the satisfaction of the Secretary.	Blasting conducted in accordance with the blast management plan. Reported that a letter drop conducted at least one week prior to each blast. Sighted 4/10/17 for blast conducted on 11/10/17. Monitoring data available for blasting.	C	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Blast Management Plan					
29.	9	The Applicant shall prepare and implement a Blast Management Plan for the development to the satisfaction of the Secretary. This plan must: (a) be submitted to the Secretary for approval within 3 months of the commencement of quarrying operations under this consent, unless otherwise agreed by the Secretary; (b) describe the measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this consent; (c) include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this consent; (d) include community notification procedures for the blasting schedule; and (e) include a protocol for investigating and responding to complaints.	Blast Management Plan submitted 15/06/16. Quarrying operations commenced 16/09/16 under current consent.	C	
Air Quality Impact Assessment Criteria					
30.	10	The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedences of the criteria in Table 4 at any residence on privately-owned land.	Avoidance and mitigation measures are identified in the Air Quality Management Plan. No complaints or exceedences of air quality criteria have been recorded.	C	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Operating Conditions					
31.	11	The Applicant shall: (a) implement best practice management to minimise the dust emissions of the development; (b) regularly assess meteorological and air quality monitoring data and relocate, modify and/or stop operations on site to ensure compliance with the air quality criteria in this consent; (c) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note under Table 4); (d) monitor and report on compliance with the relevant air quality conditions in this consent; (f) minimise the area of surface disturbance and undertake progressive rehabilitation of the site, to the satisfaction of the Secretary.	Particulate matter is measured using a PM ₁₀ through a real time E sampler, with TSP calculated from PM ₁₀ records. 3 dust gauges installed and monitored. PM ₁₀ data available online. No exceedences of dust deposition criteria have occurred. PM ₁₀ installed March 2017. No exceedences of PM ₁₀ criteria have been recorded.	C	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Air Quality Management Plan					
32.	12	<p>The Applicant shall prepare and implement an Air Quality Management Plan for the development to the satisfaction of the Secretary. This plan must:</p> <p>(a) be submitted to the Secretary for approval within 3 months of the commencement of quarrying operations under this consent, unless otherwise agreed by the Secretary;</p> <p>(b) describe the measures that would be implemented to ensure</p> <ul style="list-style-type: none"> • compliance with the air quality criteria and operating conditions of this consent; • best practice management is being employed; and • the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events <p>(c) describe the proposed air quality management system;</p> <p>(d) include an air quality monitoring program that:</p> <ul style="list-style-type: none"> • is capable of evaluating the performance of the development; • includes a protocol for determining any exceedences of the relevant conditions of consent; • effectively supports the air quality management system; and • evaluates and reports on the adequacy of the air quality management system. 	<p>Air Quality Management Plan prepared and submitted 15/06/16.</p> <p>Quarrying operations commenced 16/09/16 under current consent.</p>	C	
Meteorological Monitoring					
33.	13	<p>For the life of the development, the Applicant shall ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the Approved Methods for Sampling of Air Pollutants in New South Wales guideline.</p>	<p>Weather station provided on site.</p> <p>Monitors Wind speed, direction, temperature, Barometric Pressure, Rainfall, relative humidity.</p>	C	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Greenhouse Gas Emissions					
34.	14	The applicant shall implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.	Greenhouse gas emission mitigations measures have been identified in the Air Quality Management Plan. e.g. - Primary Conveyor has regenerative braking to return power to the system, reducing electricity generations requirements.	C	
SOIL AND WATER					
Water Supply					
35.	15	The Applicant shall ensure that it has sufficient water for all stages of the development, and if necessary, adjust the scale of operations under the consent to match its available water supply, to the satisfaction of the Secretary. <i>Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain the necessary water licences for the development, including in respect of the extraction and/or interception of groundwater.</i>	Water balance had been included in the Water Management Plan. Water licence obtained for extraction of water from the Cox's River (Lic No WAL25616) and licence for groundwater extraction from the bottom of the pit (WAL37423).	C	
Water Discharges					
36.	16	The Applicant shall comply with the discharge limits in any EPL, or Section 120 of the POEO Act.	Water quality results available. Review of records did not identify any exceedences.	C	
Surface Water Audit and Water Management Improvement Program					
37.	17	Within 3 months of the commencement of quarrying operations under this consent, the Applicant shall commission independent surface water expert/s, approved by the Secretary, to undertake an audit of current and proposed surface water management practices and infrastructure on the site. The audit shall: (a) be undertaken in consultation with EPA and WaterNSW; (b) fully describe and audit existing site water management practices and consider the EIS's proposed water management practices;	Water quality management plan approved 16/10/17. Initial submission on 15/06/16. Quarrying operations commenced 16/09/16 under current consent. Surface Water Audit conducted by Groundwork Plus. Letter from DPI 14/07/16 acknowledging acceptance of	C	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		(c) identify all reasonable and feasible measures to improve surface water management on the site, with particular reference to opportunities to divert clean water away from the site; and (d) recommend design parameters for proposed water management systems on the site.	the audit report.		
38.	18	Unless otherwise agreed with the Secretary, the Applicant shall submit the Surface Water Audit report to the Secretary within six months of commissioning the audit. The report must be accompanied by a Water Management Improvement Program, based on the report's recommendations, to improve surface water management practices on the site, including a program of proposed timeframes for implementation.	Surface audit report was provided to DPI on 15/07/16. Water Management Improvement Program included in submission with the audit report.	C	
39.	19	The Applicant must implement the Water Management Improvement Program to the satisfaction of the Secretary	Email 10/10/17 showed that 40 f 6 items had been completed – A1 and K1.	C	
Water Management Plan					
40.	20	The Applicant shall prepare and implement a Water Management Plan for the development to the satisfaction of the Secretary. This plan must: (a) be prepared by suitably qualified person/s approved by the Secretary; (b) be prepared in consultation with the EPA, NOW and WaterNSW; (c) be submitted to the Secretary for approval at least 3 months prior to the commencement of quarrying operations under this consent, unless otherwise agreed by the Secretary; (d) include a: (i) Site Water Balance that includes: o details of: • sources and security of water supply; • water use and management on site; • any off-site water transfers; and • reporting procedures. o measures that would be implemented to minimise clean water use on site; (ii) Surface Water Management Plan, that includes: o detailed baseline data on surface water flows and quality in water bodies that could	Water Management Plan submitted 15/06/16. Approved 16/10/17.	C	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<p>potentially be affected by the development;</p> <ul style="list-style-type: none"> □ a detailed description of the surface water management system on site including the: <ul style="list-style-type: none"> • clean water diversion system; • erosion and sediment controls; • dirty water management system; and • water storages; and □ a program to monitor and report on: <ul style="list-style-type: none"> • any surface water discharges; • the effectiveness of the water management system; and • surface water flows and quality in local watercourses; (iii) Groundwater Management Plan, that includes: <ul style="list-style-type: none"> □ baseline data on groundwater levels, yield and quality in local aquifers and privately-owned groundwater bores that could be potentially affected by the development; □ a program to monitor and report on groundwater inflows to the quarry pit and the impacts of the development on surrounding aquifers and privately-owned groundwater bores; and □ an analysis of these monitoring results to predict long-term water levels within the quarry void; and (iv) Surface and Ground Water Contingency Strategy, that includes: <ul style="list-style-type: none"> □ a protocol for the investigation, notification and mitigation of identified impacts on surface water flows and quality in water bodies and/or groundwater levels, yield and quality in local aquifers and privately-owned groundwater bores that could be potentially affected by the development; and □ the procedures that would be followed if any unforeseen impacts are detected during the development. 			

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Transport					
Monitoring of Product Transport					
41.	21	The Applicant shall keep accurate records of all truck movements to and from the site (hourly, daily, and weekly, monthly and annually) and publish a summary of records on its website every 6 months.	Truck movement records up to June 2017 are published on the company website. CAS/SAP Quarries Weighbridge System used for monitoring truck movements to and from the site. Includes date and time, truck details, weight, time loaded, delivery address.	C	
Operating Conditions					
42.	22	The Applicant shall ensure that: (a) all reasonable measures are taken such that laden trucks have appropriate signage, including a contact phone number, so they can be easily identified by road users; (b) all laden trucks entering or exiting the site have their loads covered; (c) all laden trucks exiting the site are cleaned of material that may fall on the road, before leaving the site; and (d) no trucks queue at the entrance to the site before 5 am.	Audit process implemented to verify trucks have appropriate signage. Verified for trucks sighted on day of audit. Verified for Truck RR636, 11/10/16. Minimum of 4 per week required to be completed. Records reviewed audits conducted in accordance with the schedule.	C	
Transport Management Plan					
43.	23	The Applicant shall prepare and implement a Transport Management Plan for the development to the satisfaction of the Secretary. This plan must: (a) be submitted to the Secretary for approval at least 3 months prior to the commencement of quarrying operations under this consent, unless otherwise agreed by the Secretary; (b) describe the measures that would be undertaken to monitor the level of service at the Jenolan Caves Road and Great Western Highway intersection and maintain an acceptable level of service at this intersection; (c) include a Drivers' Code of Conduct to minimise the impacts of development-related trucks on local residences and road users including measures to minimise the use of local roads; and (d) describe the measures that would be put in place to ensure compliance with the	Traffic Management Plan prepared and submitted to DP&E 15/06/16. Version 3 approved November 2016. Quarrying operations commenced 16/09/16 under current consent.	C	
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		Drivers' Code of Conduct.			
Aboriginal Heritage					
44.	24	If any item or object of Aboriginal heritage significance is identified on site, the Applicant shall ensure that: 24. (a) all work in the immediate vicinity of the suspected Aboriginal item or object ceases immediately; (b) a 10 m buffer area around the suspected item or object is cordoned off; and (c) the OEH is contacted immediately. Work in the vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the <i>National Parks and Wildlife Act 1974</i> .	Reported that no items or objects have been found. Requirements are communicated at training on site. e.g. 29/09/17 – Aboriginal Cultural Heritage training provided by Quarry Manager.	C	
LANDSCAPE AND REHABILITATION					
Biodiversity Offset Strategy					
45.	25	The Applicant shall implement the Biodiversity Offset Strategy, described in the EIS and including Conservation Area H, shown conceptually in Appendix 6, to the satisfaction of the Secretary.	Biodiversity Offset Management Plan provided. Submitted to DP&E 15/06/16. Arrangements to provide appropriate long-term security for the Biodiversity Offset Strategy yet to be finalised.	NT	
Security of Offsets					
46.	26	Within 2 years of this consent, unless otherwise agreed with the Secretary, the Applicant shall make suitable arrangements to provide appropriate long-term security for the Biodiversity Offset Strategy, to the satisfaction of the Secretary. Note: <i>Mechanisms to provide appropriate long term security to the land within the Biodiversity Offset Strategy in accordance with the NSW Biodiversity Offset Policy for Major Projects 2014, including a Biobanking Agreement, Voluntary Conservation Agreement or an alternative mechanism that provides for a similar conservation outcome. Any mechanism must remain in force in perpetuity.</i>	Approval had been provided by DP&E (letter 20/02/17) for the condition to be changed to 2 years from the commencement of work under the consent (16/09/16).	C	

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Rehabilitation Objectives					
47.	27	The Applicant shall rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be generally consistent with the rehabilitation strategy in the EIS and the conceptual final landform in Appendix 4 and must comply with the objectives in Table 5.	Limited rehabilitation has occurred on site. Rehabilitation of the area surrounding the viewing platform had been undertaken. Rehabilitation of the riparian area had been conducted. <ul style="list-style-type: none"> • 2000 E. Pulverenta • 1000 Mixed native gums Have been sourced from the local nursery. Plants have been reported to be harvested from the site.	C	
Progressive Rehabilitation					
48.	23	The Applicant shall rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim stabilisation measures must be implemented where reasonable and feasible to control dust emissions in disturbed areas that are not active and which are not ready for final rehabilitation. <i>Note: It is accepted that parts of the site that are progressively rehabilitated may be subject to further disturbance in future.</i>	Limited rehabilitation has occurred on site. Rehabilitation of the area surrounding the viewing platform had been undertaken. Rehabilitation of the riparian area had been conducted. <ul style="list-style-type: none"> • 2000 E. Pulverenta • 1000 Mixed native gums Have been sourced from the local nursery. Plants have been reported to be harvested from the site.	C	
Landscape and Rehabilitation Management Plan					
49.	29	The Applicant shall prepare and implement a Landscape and Rehabilitation Management Plan for the development to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with OEH and be submitted to the Secretary for approval at least 3 months prior to the commencement of quarrying operations under this consent, unless the Secretary agrees otherwise; (b) provide details of the conceptual final landform and associated land uses for the site; (c) describe how the implementation of the Biodiversity Offset Strategy would be integrated with the overall rehabilitation of the site; (d) include detailed performance and completion criteria for evaluating the	A Landscape and Rehabilitation Management Plan submitted 15/06/2016. Quarrying operations commenced 16/09/16 under current consent.	C	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<p>performance of the Biodiversity Offset Strategy and rehabilitation of the site, including triggers for any necessary remedial action;</p> <p>(e) describe the short, medium and long term measures that would be implemented to:</p> <ul style="list-style-type: none"> • manage remnant vegetation and habitat on site, including within the Biodiversity Offset Strategy area; and • ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this consent; <p>(f) include a detailed description of the measures that would be implemented over the next 3 years (to be updated for each 3 year period following initial approval of the plan) including the procedures to be implemented for:</p> <ul style="list-style-type: none"> • maximising the salvage of environmental resources within the approved disturbance area, including tree hollows, vegetative and soil resources, for beneficial reuse in the enhancement of the offset area or site rehabilitation; • restoring and enhancing the quality of native vegetation and fauna habitat in the biodiversity and rehabilitation areas through assisted natural regeneration, targeted vegetation establishment and the introduction of fauna habitat features; • protect, conserve, propagate, plant and/or regenerate Silver-leafed Mountain Gum (<i>Eucalyptus Pulverulenta</i>) (including the propagation and planting of at least 1,000 individuals of this species); • protecting vegetation and fauna habitat outside the approved disturbance area on-site; • minimising the impacts on native fauna, including undertaking pre-clearance surveys; • establishing vegetation screening to minimise the visual impacts of the site on surrounding receivers; • ensuring minimal environmental consequences for threatened species, populations and habitats; • collecting and propagating seed; • controlling weeds and feral pests; • controlling erosion; • controlling access; and 			

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
		<ul style="list-style-type: none"> • managing bushfire risk; (g) include a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria; (h) identify the potential risks to the successful implementation of the Biodiversity Offset Strategy, and include a description of the contingency measures that would be implemented to mitigate these risks; and (i) include details of who would be responsible for monitoring, reviewing, and implementing the plan. 			
Conservation and Rehabilitation Bond					
50.	30	<p>Within 6 months of the approval of the Landscape Management Plan, the Applicant shall lodge a Conservation and Rehabilitation Bond with the Department to ensure that the Biodiversity Offset Strategy and rehabilitation of the site are implemented in accordance with the performance and completion criteria set out in the plan and relevant conditions of this consent. The sum of the bond shall be determined by:</p> <ul style="list-style-type: none"> (a) calculating the cost of implementing the Biodiversity Offset Strategy over the next 3 years; (b) calculating the cost of rehabilitating the site, taking into account the likely surface disturbance over the next 3 years of quarrying operations; and (c) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary. 	<p>Rehabilitation bond submitted – DP&E approval of the Rehabilitation bond calculation was provided 25/07/17.</p> <p>Agreement for DPE for Nick Warren of RW Corkery & Co Pty Ltd to complete the estimate of the bond.</p> <p>Letter sighted from DPE 25/07/17 requiring the Rehabilitation bond to be lodged no later than the 22/08/2017.</p> <p>Bank guarantee showed Bond lodged 17/08/17.</p> <p>Acknowledgement of receipt by DPE provided 23/08/17.</p>	C	
51.	31	<p>Within 3 months of each Independent Environmental Audit (see condition 8 of Schedule 5), the Applicant shall review, and if necessary revise, the sum of the Rehabilitation Bond to the satisfaction of the Secretary. This review must consider the:</p> <ul style="list-style-type: none"> (a) effects of inflation; (b) likely cost of implementing the Biodiversity Offset Strategy and rehabilitating the site (taking into account the likely surface disturbance over the next 3 years of the development); and (c) performance of the implementation of rehabilitation of the site to date. 		NT	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Visual					
52.	32	The Applicant shall implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development to the satisfaction of the Secretary.	Lights used on site are focussed to walking/ working areas to minimise light glow. No complaints have been received re lighting.	C	
Waste					
53.	33	The Applicant shall: (a) manage on-site sewage treatment and disposal in accordance with the requirements of its EPL, and to the satisfaction of the EPA and Council; (b) minimise the waste generated by the development; (c) ensure that the waste generated by the development is appropriately stored, handled, and disposed of; and (d) report on waste management and minimisation in the Annual Review, to the satisfaction of the Secretary.	Onsite sewage collected in a septic tank and disposed of offsite. Facilities for the management of waste on site were provided. Waste management included in Section 5.9 of the Annual Review.	C	
54.	34	Except as expressly permitted in an EPL, the Applicant must not receive waste at the site for storage, treatment, processing, reprocessing or disposal.	Reported that no waste has been received on site during the period of the current consent. (No waste had been received in the previous 3 years).	C	
Liquid Storage					
55.	35	The Applicant shall ensure that all tanks and similar facilities for storage of liquids (other than for water) are protected by appropriate bunding, which must exceed 110% of the stored volume of the liquid.	An enclosed storage shed was provided for storage of chemicals, oils and diesel on site.	C	
Dangerous Goods					
56.	36	The Applicant shall ensure that the storage, handling, and transport of dangerous goods is done in accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the Dangerous Goods Code.	Materials sighted were stored in general accordance with AS1940. No inappropriate storage of hazardous substances or dangerous goods were identified.	C	

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AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Bushfire					
57.	37	The Applicant shall: (a) ensure that the development is suitably equipped to respond to any fires on site; and (b) assist the Rural Fire Service and emergency services as much as possible if there is a fire in the vicinity of the site.	Water truck has a cannon for use in firefighting. Fire extinguishers provided at suitable locations Fire suppression installed on some vehicles Electrical control room is fitted with fire suppression system. Quarry Manager reported that he was in regular attendance RFS meetings.	C	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Schedule 4 –Additional Procedures					
NOTIFICATION OF LANDOWNERS					
58.	1	As soon as practicable after obtaining monitoring results showing: (a) an exceedance of any relevant criteria in Schedule 3, the Applicant shall notify the affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the development is again complying with the relevant criteria; and (b) an exceedance of any relevant air quality criteria in Schedule 3, the Applicant shall send a copy of the NSW Health fact sheet entitled “Mine Dust and You” (as may be updated from time to time) to the affected landowners and current tenants of the land (including the tenants of land which is not privately-owned).	No exceedences of monitoring criteria have occurred.	NT	
INDEPENDENT REVIEW					
59.	2	If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land. If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary’s decision, the Applicant shall: (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to: • consult with the landowner to determine his/her concerns; • conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; and • if the development is not complying with these criteria, then identify measures that could be implemented to ensure compliance with the relevant criteria; and (b) give the Secretary and landowner a copy of the independent review.	No requests for an independent review had been received.	NT	

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
Schedule 5- Environmental Management, Reporting and Auditing					
ENVIRONMENTAL MANAGEMENT STRATEGY					
60.	1	The Applicant shall prepare and implement an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must: <ul style="list-style-type: none"> (a) be submitted to the Secretary for approval within 6 months of the date of this consent; (b) provide the strategic framework for environmental management of the development; (c) identify the statutory approvals that apply to the development; (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development; (e) describe the procedures that would be implemented to: <ul style="list-style-type: none"> • keep the local community and relevant agencies informed about the operation and environmental performance of the development; • receive, record, handle and respond to complaints; • resolve any disputes that may arise during the course of the development; • respond to any non-compliance; • respond to emergencies; and (f) include: <ul style="list-style-type: none"> • copies of any strategies, plans and programs approved under the conditions of this consent; and A clear plan depicting all the monitoring to be carried out under the conditions of this consent.	Submitted to DP&E and approved 6/06/16.	C	
Management Plan Requirements					
61.	2	The Applicant shall ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include: <ul style="list-style-type: none"> (a) detailed baseline data; (b) a description of: <ul style="list-style-type: none"> • statutory requirements (including any relevant approval, licence or lease conditions); • any relevant limits or performance measures/criteria; and • the specific performance indicators that are proposed to be used to judge the 	Management plans have been prepared, submitted and approved.	C	

		<p>performance of, or guide the implementation of, the development or any management measures;</p> <p>(c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</p> <p>(d) a program to monitor and report on the:</p> <ul style="list-style-type: none"> • impacts and environmental performance of the development; and • effectiveness of any management measures (see (c) above); <p>(e) a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant performance of the development over time;</p> <p>(g) a protocol for managing and reporting any:</p> <ul style="list-style-type: none"> • incidents; • complaints; • non-compliances with statutory requirements; and • exceedances of the impact assessment criteria and/or performance criteria; <p>and</p> <p>(h) a protocol impact assessment criteria as quickly as possible;</p> <p>(f) a program to investigate and implement ways to improve the environmental for periodic review of the plan.</p> <p><i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i></p>			
Adaptive Management					
62.	3	<p>The Applicant must assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.</p> <p>Where any exceedance of these criteria and/or performance measures has occurred, the Applicant must, at the earliest opportunity:</p> <p>(a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not reoccur;</p> <p>(b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and</p> <p>(c) implement remediation measures as directed by the Secretary; to the satisfaction of the Secretary.</p>	No exceedances of criteria and/or performance measures have occurred.	NT	
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Annual Review					
63.	4	<p>By the end of September each year, or other timing as may be agreed by the Secretary, the Applicant shall review the environmental performance of the development to the satisfaction of the Secretary. This review must:</p> <p>(a) describe the development (including any rehabilitation) that was carried out in the previous financial year, and the development that is proposed to be carried out over the current financial year;</p> <p>(b) include a comprehensive review of the monitoring results and complaints records of the development over the previous financial year, which includes a comparison of these results against the:</p> <ul style="list-style-type: none"> • relevant statutory requirements, limits or performance measures/criteria; • requirements of any plan or program required under this consent; • monitoring results of previous years; and • relevant predictions in the EIS; <p>(c) identify any non-compliance over the past financial year, and describe what actions were (or are being) taken to ensure compliance;</p> <p>(d) identify any trends in the monitoring data over the life of the development;</p> <p>(e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and</p> <p>(f) describe what measures will be implemented over the current financial year to improve the environmental performance of the development.</p>	<p>Annual Review submitted 13/10/17.</p> <p>Note that an extension for the submission to 13/10/17 of the review was provided on 28/09/17 by DP&E.</p>	C	
Revision of Strategies, Plans and Programs					

64.	5	<p>Within 3 months of the submission of an:</p> <p>(a) incident report under condition 4 below;</p> <p>(b) annual review under condition 6 below;</p> <p>(c) audit report under condition 7 below; and</p> <p>(d) any modifications to this consent,</p> <p>the Applicant shall review the strategies, plans and programs required under this consent, to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted for the approval of the Secretary.</p> <p><i>Note: The purpose of this condition is to ensure that strategies, plans and programs are regularly updated to incorporate any measures recommended to improve environmental performance of the development.</i></p>	<p>No incidents have been reported.</p> <p>Annual review submitted 13/10/17</p> <p>Audit report yet to be completed.</p> <p>No modifications to the consent have occurred.</p>	NT	
REPORTING					
Incident Reporting					
65.	6	<p>The Applicant shall immediately notify the Secretary and any other relevant agencies of any incident. Within 7 days of the date of the incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.</p>	<p>No environmental incidents have occurred.</p>	NT	
Regular Reporting					
66.	7	<p>The Applicant shall provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.</p>	<p>Monitoring records were available on the company website in EPL monitoring results.</p>	C	
INDEPENDENT ENVIRONMENTAL AUDIT					
67.	8	<p>Within a year of the date of this consent, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:</p> <p>(a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;</p> <p>(b) include consultation with the relevant agencies;</p> <p>(c) assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL or necessary water licences for the development (including any assessment, strategy,</p>	<p>Letter seeking endorsement by the secretary of the proposed auditor submitted 15/09/17.</p> <p>Approval of auditor provided 20/09/17.</p> <p>Noted that approval of the auditor, and hence commissioning of the Independent Environmental Audit had not been completed by 15/09/17.</p> <p>Audit conducted 17/10/17.</p>	A	04

		<p>plan or program required under these approvals); (d) review the adequacy of strategies, plans or programs required under the abovementioned approvals; and (e) recommend appropriate measures or actions to improve the environmental performance of the development, and/or any assessment, strategy, plan or program required under the abovementioned approvals. <i>Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.</i></p>			
68.	9	<p>Within 6 weeks of completion of this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.</p>	Audit conducted 17/10/17	NT	
ACCESS TO INFORMATION					
69.	10	<p>Within 6 months of the date of this consent, the Applicant shall: (a) make the following information publicly available on its website: • the documents listed in condition 2 of Schedule 2; • current statutory approvals for the development; • all approved strategies, plans and programs required under the conditions of this consent; • a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; • a complaints register, updated monthly; • the annual reviews of the development; • any independent environmental audit, and the Applicant's response to the recommendations in any audit; and • any other matter required by the Secretary; and (b) keep this information up-to-date, to the satisfaction of the Secretary.</p>	<p>Website includes:</p> <ul style="list-style-type: none"> • Austen EIS Documents • 2016 Environmental Management Report DA 103-94 • Austen Quarry Consent with S96 Update • Austen Quarry Development Consent SSD-6084 • Average Truck Movements • September 2016 • Previous months 2016 • Austen Quarry Environmental Management Strategy and Plan • Air Quality Management Plan • Blasting Management Plan • Biodiversity Offset Management Plan • Landscape and Rehabilitation Management Plan • Noise Management Plan • Silver-leaved Mountain Gum Management Plan • Traffic Management Plan • Water Management Plan • Complaints Register 	C	

			• EPL licence monitoring data		
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Audit Checklist – Environmental Protection Licence

AQUAS Audit Ref No	Cond. No.	Condition	Finding and Recommendations	Compliance rating	Assessment Issue #
ENVIRONMENTAL PROTECTION LICENCE 12323					
1.	A.1.1	Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition. Extractive Activities Land-based extractive activity > 500000 - 2000000 T extracted, processed or stored	Summary for 2016-2017 financial year showed 1,058,563 tonnes sold and transported.	C	
2.	L4.1	Noise from the premises must not exceed 35 dB(A) LAeq (15 minute) at any time.	Noise monitoring conducted has concluded that noise from the premises did not exceed criteria.	C	
3.	L5.1	Blasting in or on the premises must only be carried out between 1000 hours and 1500 hours Monday to Friday. Blasting in or on the premises must not take place on Saturdays, Sundays or Public Holidays without the prior approval of the EPA	Blast monitoring records show that blasting had only been conducted within the periods identified.	C	
4.	L5.2	The airblast overpressure level from blasting operations in or on the premises must not exceed: a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period; and b) 120 dB (Lin Peak) at any time. At the most affected noise-sensitive location not under the ownership or control of the licensee.	No exceedences of the airblast overpressure level from blasting operations have been recorded.	C	
5.	L5.3	The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed: a) 5mm/s for more than 5% of the total number of blasts carried out on the premises during each reporting period; and b) 10 mm/s at any time At the most affected sensitive location not under the ownership or control of the licensee	No exceedences of the ground vibration peak particle velocity overpressure level from blasting operations have been recorded.	C	
6.	L5.4	The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not exceed 2 mm/s at the most sensitive location within Hartley Village	No exceedences of the ground vibration peak particle velocity overpressure level from blasting operations have been recorded.	C	
7.	L6.1	Activities covered by this licence must only be carried out between the hours of 06:00 to 22:00 hours Monday to Friday, and 06:00 to 15:00 hours Saturday, and at no time on Sundays and Public Holidays.	Working hours for the site comply with hours specified.	C	

Independent Audit Report - Austen Quarry Rev 01 .docx	Audit Compliance Codes: C: Compliant; N: Non-compliance; A: Administrative non-compliance; O: Observation; NV: not verified; NT: Not Triggerred; Note: No assessment of compliance required	Page 47
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8.	L6.2	The loading and dispatch of trucks at the Premises and transport to and from the Premises is permitted between 05:00 hours and 22:00 hours Monday to Friday and between 05:00 hours and 15:00 hours on Saturdays only.	Loading not permitted prior to 5am. CAS system used for weighbridge does not permit entry before 5.00am.	C	
9.	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.	Plant and equipment maintenance records were available which showed regular maintenance was undertaken.	C	
10.	O3.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	Controls identified in the air quality management plan. Water cart used to minimise dust generation.	C	
11.	O4.1	The stormwater control structures (sediment basins) identified at EPA Identification Points 1, 8, 9, 10 and 11 must be drained or pumped out as necessary to maintain each basins design storage capacity within 5 days following rainfall.	Program in place to monitor water levels in sediment basins and maintained storage capacity.	C	
12.	O4.2	Water discharged to comply with condition O4.1 may only be discharged to waters from those stormwater control structures (sediment basins) identified at EPA Identification Points 1, 8, 9, 10 and 11 where the discharged water complies with the discharge limits stipulated at condition L2.1/L2.4 (and taking into consideration condition L2.6).	No discharge has occurred from sites other than those identified.	C	
13.	O4.3	The licensee must undertake maintenance as necessary to desilt any stormwater control structures (sediment basins) identified at EPA Identification Points 1, 8, 9, 10 and 11 in order to retain each basins design storage capacity.	Desilting of the sediment basins had been conducted in 2016.	C	
14.	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.	Record keeping requirements had been identified in management plans. Records were readily available on site.	C	
15.	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.	Records were readily available on site.	C	
16.	M2.2	Is dust monitoring conducted at 3 sites from AQD1 to AQD3 (EPA Points 4,5 and 6)	Records of dust monitoring were available for the three sites.	C	

17.	M2.3	Water monitoring conducted daily during discharge at Points 1,8,9,10 and 11 for: Oil and Grease / PH / Total suspended solids	Water quality monitoring data was available on the company website.	C	
18.	M2.3	Water monitoring at Points 2 and 3 conducted monthly and daily during discharge from Point 1 for: Oil and Grease / PH / Total suspended solids	Monthly water quality monitoring data was available. No discharge had occurred from EPL Point 1.	C	
19.	M4.1	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 available. No complaints had been received	NT	
20.	M4.2	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.	No complaints had been received. Complaints register maintained in Cintillate which includes facility for all required information.	C	
21.	M5.1	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.	Telephone complaints line operated.	C	
22.	M5.2	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.	Telephone number was displayed in the front gate to the site.	C	
23.	M5.3	The preceding two conditions do not apply until 3 months after the date of the issue of this licence.		Note	
24.	M6.1	For each discharge point or utilisation area specified below (1,8,9,10,11), the licensee must monitor: a) the volume of liquids discharged to water or applied to the area; b) the mass of solids applied to the area; c) the mass of pollutants emitted to the air; at the frequency and using the method and units of measure, specified below (daily during discharge).	Monitoring records included a daily estimate of the volume of water discharged.	C	

25.	M7	a) Airblast overpressure and ground vibration must be measured and electronically recorded at the nearest residence or sensitive receiver or as otherwise directed by an authorised officer of the EPA for all blasts carried out in or on the premises; and b) Instrumentation used to measure the airblast overpressure and ground vibration must meet the requirements of Australian Standard AS 2187.2-2006.	Blast monitoring has been conducted at locations as identified in the approved Blast Management Plan.	C	
26.	M8	The applicant must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1. The applicant must use the sampling method, units of measure, averaging period and sample at the frequency specified opposite in the other columns unless otherwise approved by the EPA (Temperature, wind speed and direction, sigma theta, rainfall)	Temperature, rainfall, wind speed and direction, Sigma Theta recorded.	C	
Reporting Conditions					
Annual Return Documents					
27.	R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: 1. a Statement of Compliance, 2. a Monitoring and Complaints Summary, 3. a Statement of Compliance - Licence Conditions, 4. a Statement of Compliance - Load based Fee, 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan, 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and 7. a Statement of Compliance - Environmental Management Systems and Practices. 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.	Annual return completed and submitted to EPA 24/08/17.	C	
28.	R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below. <i>Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period. The reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months</i>	Reporting period 1 July to 30- June.	C	

29.	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. Note: An application to transfer a licence must be made in the approved form for this purpose.		NT	
30.	R1.4	Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on: a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.		NT	
31.	R1.5	The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').	Report provided 24/08/17. Due before 30/08/17.	C	
32.	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	Copy of the Annual Return was available.	C	
33.	R1.7	Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or b) by a person approved in writing by the EPA to sign on behalf of the licence holder.	Statement of compliance was signed and included with the Annual Return	C	
34.	R2.1	Notifications must be made by telephoning the Environment Line service on 131 555. Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.	No environmental incidents have occurred.	NT	

35.	R2.2	The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act. The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.	No environmental incidents have occurred.	NT	
36.	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 occurred. No requests for a written report have been received.	NT	
37.	R3.2	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 occurred. No requests for a written report have been received.	NT	
38.	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 environmental incidents have occurred. No requests for a written report have been received.	NT	
39.	G1.1	A copy of this licence must be kept at the premises to which the licence applies.	Copy of the licence was available on site.	C	
40.	G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	Copy of the licence was available on site.	C	
41.	G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	Copy of the licence was available on site.	C	

42.	G2.1	The licensee must operate 24-hour telephone contact lines for the purpose of enabling the EPA to directly contact one or more representatives of the licensee who can: a) respond at all times to incidents relating to the premises; and b) contact the licensee’s senior employees or agents authorised at all times to: i) speak on behalf of the licensee; and ii) provide any information or document required under this licence.	24 hour contact details have been provided (Plant Manager).	C	
43.	G2.2	The licensee is to inform the EPA of the representative or representatives and their telephone number within 3 months of the date of the issue of this licence. The EPA must be notified of the telephone number on commencement of its operation.	24 hour contact details have been provided (Plant Manager).	C	
44.	G2.3	The licensee is to inform the EPA in writing of the appointment of any subsequent contact persons, or changes to the person’s contact details as soon as practicable and in any event within fourteen days of the appointment or change		NT	
45.	G3.1	The location of EPA point number(s) 1 to 7 inclusive must be clearly marked by signs that indicate the point identification number used in this licence and be located as close as practical to the point.	Locations were clearly marked. E.g. 	C	

Audit Checklist – Air Quality Management Plan

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
7.1 Air Quality Management System					
1.	7.1.2	Have the following design features been implemented: <ul style="list-style-type: none"> Northern ridge of the quarry area retained; Conveyor transfer points are partially enclosed; Quarry access road sealed from Jenolan Caves Road to Yorkeys Creek 	Features have been implemented/ retained.	C	
2.	7.1.2	Have the following controls and safeguards been implemented: <ul style="list-style-type: none"> Limit total surface disturbance; Progressive rehabilitation; Dust mitigation incorporated into the processing equipment including sprays, covers and enclosures; During periods of extended dry weather or high winds, dust is managed through the use of water truck to suppress emissions; All other internal roads are surfaced with well graded materials to limit dust generation; Exposed areas that are not covered in gravel under dry and windy conditions would be watered; All vehicles travelling on internal unsealed roads are limited to a speed of 40kph; Load sizes limited so that product does not extend above truck sidewalls; Care taken to avoid spillage during loading; Dump heights from trucks, front end loaders and conveyors would be minimised; Blasts scheduled to avoid high wind conditions, especially when northerly, northwesterly or northeasterly winds prevail; Truck idling, queuing unnecessary trips would be minimised through logistical planning. 	Clearing had been limited to the area required for 6 months operations. Limited rehabilitation has been undertaken at this stage of the works. Water cart available and used on site. Speed limit on internal quarry roads restricted to 30kph. Loads sighted did not extend above truck sidewalls. Excavator was noted to be placing material in dump trucks with minimal fall. No trucks were left idling at the time of audit.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
3.	7.1.2	Minimise GHG emissions through: Optimising quarry design to minimise travel distances and rehandling; Using mobile equipment that is well serviced and maintained; Minimising the quarry footprint to reduce land disturbance and travel distances; Optimising the design of the processing plant to: Maximise the use of gravity to move material; and Maximise the use of energy efficient motors in major items of equipment.	Noted that conveyor from primary crusher to the secondary processing area had regenerative braking to return power to the system, reducing electricity generations requirements Maintenance records were available to show equipment was regularly maintained.	C	
4.	7.1.3	Has air quality monitoring been conducted at the locations identified in Figure 3?	Records of air quality monitoring available. No exceedences of criteria had occurred	C	
5.	7.2.2	Have any complaints been received in relation to air quality? Was the recording and investigation procedure in Section 7.2.2 followed?	No complaints had been received	NT	
6.	7.2.2	Have the PM ₁₀ trigger levels been exceeded? Is so, has an investigation been conducted?	Records showed PM ₁₀ trigger levels had not been exceeded.	NT	
7.	7.2.2	Has air quality criteria been exceeded? If so, has the procedure in Section 7.2.2 been followed for reviewing, reporting and investigation of the exceedance?	No exceedences of criteria had occurred	NT	
8.	7.2.2	Have extraordinary events or conditions resulted in air quality exceedences? What controls were implemented to ensure compliance during these periods?	No exceedences of criteria had occurred	NT	
9.	8.3	Has dust deposition monitoring been conducted at locations EPL-4. EPL-5 and EPL-6?	Dust deposition monitoring had been conducted at the identified locations.	C	
10.	8.4	Has a real time particulate matter monitor been used to continually monitor PM ₁₀ levels?	E Sampler real time particulate matter monitor installed.	C	
11.	8.4.1	Have trigger levels been exceeded for particulate monitoring (SMS message)?	Trigger level has not been exceeded.	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
12.	8.3	Has the real time particulate matter monitor been calibrated on a quarterly basis?	E sampler managed by Carbon Based. Reported to undertake calibrations on a quarterly basis. Installed March 2017. Calibration sighted for 27/06/17.	C	
13.	13	All personnel and contractors working at the Quarry undergo an induction. This induction includes information on the management of air quality while working on Site. After completing the induction, workers will sign a statement of attendance and records of this are kept in the administration office. Monthly toolbox meetings are held to discuss whole-of-site production, management, safety and environmental issues. Matters relating to air quality are raised during these meetings, when necessary	Site specific induction included health impacts associated with respirable silica, but did not include any specific information on management of air quality while working on site. Records of toolbox meetings available.	N	01

Audit Checklist – Water Management Plan

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
7 Surface Water Management					
1.	7.1	Runoff from undisturbed areas is to be diverted around areas disturbed by quarry operations wherever practicable to reduce the potential for clean runoff to be polluted by quarry activities. Diversion of clean waters will be effected by contour and diversion drains, perimeter bunds and pipe culverts wherever practicable.	During the site inspection, it was noted that controls had been implemented to divert runoff from undisturbed area and manage runoff from disturbed areas.	C	
2.	7.1	During the extension and operation of the current and future extraction area and overburden emplacement, drainage will convey water from areas of disturbance to sediment basins located within the extraction area and around the Quarry (i.e. SB1, SB2 and SB3) to prevent sediment laden or contaminated runoff leaving the Quarry	On site water had been diverted to sediment basins SB1, SB2 and SB3.	C	
3.	7.1	In order to implement the plan to eliminate water transfers from SB1 to SD6 that might result in discharges of clean and dirty water to the Coxs River it is planned that: water transfers from SB1 to SD6 would only occur during dry periods when water is in short supply, required for dust suppression and there is adequate freeboard available in SD6 to reasonably prevent overflow and discharge; during wet periods no water would be transferred from SB1 to SD6 in order to avoid the risk of dirty water overflowing to the Coxs River – under such circumstances water would be treated to a suitable standard in either SB1 or another dam prior to discharge	Site currently in a dry period, and water has been transferred from SB1 to SB6. No dirty water overflows from SB6 have occurred	C	
4.	7.1	It is intended to investigate as part of the Water Management Improvement Plan the opportunity to bypass some of the Catchment K1 around SD5 and SD6 in order to minimise the water that needs to be managed in these dams. This will facilitate the use of SD6 for water storage during dry periods for dust suppression without significant risk of releasing untreated quarry water (transferred from SB1 to SD6) from SD6.	Investigation had not commenced at the time of audit. Noted that the Water Management Plan had been approved 16/10/17.	NV	
5.	7.1	Sewage treatment for the offices and amenities are comprised of a self-contained activated sludge treatment unit that uses rainwater captured by the on-site infrastructures roof-tops for flush water. No treated effluent is discharged on-site.	Effluent was reported to be taken offsite by a licenced transporter. Transport records sighted.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
6.	7.3	Monitoring of the volume of release waters is to be undertaken daily during any discharge event at the prescribed discharge locations EPL12323 Point 1, 8, 9, 10 and 11 as per EPL: Discharge Volume Monitoring table below.	Volume of discharge recorded for each discharge event (estimate based on pump rate).	C	
7.	7.3	The release criteria would be updated as more data is collected and Background Reference Conditions for metals and nutrients can be determined.	Monitoring for background reference conditions was yet to commence. WMP approved 16/10/17.	NT	
8. Groundwater Quality					
8.	8.1.3	The risk of chemical spill and/or the consequences of a spill will be managed by maintaining plant and equipment outside of the extraction area consistent with operational practise of Stage 1.	Maintenance and refuelling area provided for plant.	C	
9.	8.1.3	If plant requires refuelling within the active extraction area, this will be completed away from any exposed groundwater, with appropriate controls (e.g. spill kits etc.) on standby to contain and remove spills as soon as possible	Refuelling conducted at the fuel store.	C	
10.	8.1.3	There is potential for salt to concentrate in water that accumulates in the base of the excavation as a result of evaporation. This risk will be controlled by limiting accumulation of standing water within the excavation. The excavation will be managed to minimise the time that standing water remains within the excavation	Standing water was present in the excavation at time of audit. Reported that accumulated water is removed as soon as possible for operational purposes. Note: No groundwater infiltration into the excavation.	C	
11.	8.1.3	Three groundwater monitoring bores will be installed around the periphery of the Quarry. The 'as constructed' details and locations of the bores are to be surveyed appropriately	Monitoring bores have not been installed at this stage. Reported that the site was awaiting approval of the WMP (approved 16/10/17)	NT	
12.	8.2.2	The need for multiple piezometers at each monitoring location will be assessed based on the depth of water bearing zones in relation to the identified elevation of the water table and the proposed maximum depth of excavation at the Quarry.	Monitoring bores had not been installed at the time of audit	NT	
13.	8.2.2	Each monitoring bore will be equipped with a data logging water level meter set to record water level once per day	Monitoring bores had not been installed at the time of audit	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
14.	8.2.3	To establish baseline groundwater quality data water quality monitoring will be conducted at 6 monthly intervals for a period of two years after monitoring bores are installed	Monitoring bores had not been installed at the time of audit	NT	
15.	8.2.3	In addition to monitoring bores, water samples would be collected from any water pooled within the proposed sump at the base of the Quarry excavation. Samples would be collected directly from pooled water within the sump. Sampling of excavation sump water would be conducted on a six monthly basis throughout the operational life of the Quarry	Not conducted. Awaiting approval of the WMP.	NT	
16.	8.2.3	A groundwater sample from each groundwater bore and from the excavation sump will be analysed in a National Association of Testing Authorities (NATA) accredited laboratory for the analytes listed in Table 37 - Water Quality Analytes for Groundwater Monitoring	Monitoring bores had not been installed at the time of audit. Awaiting approval of the Water Management Plan.	NT	
17.	8.2.3	The suite of analysis listed in Table 37 includes field measured water quality parameters, basic groundwater chemistry (cations and anions), heavy metals and nutrients.	Monitoring bores had not been installed at the time of audit	NT	
18.	8.2.4	A water balance will be conducted within the Quarry excavation on a quarterly basis. The water balance will be conducted at a time in which no rainfall has been recorded at the site for a period of 5 days or more, with the aim of assessing water level changes in the sump associated with groundwater inflow only.	No water has accumulated in the pit.	NT	
19.	8.2.5	After 5 years of Stage 2, or where observed inflows to the excavation exceed 15ML/yr, Hy-Tec will reassess the adequacy of the analytical model estimates outlined in Section 8.1.2. Where estimates are proven to be unreliable (on the high or low side), a more robust method of predicting inflows will be developed to predict groundwater inflow.		NT	
20.	8.3.1	A 10m or greater fall (below the maximum measured pre-development groundwater elevations) in at any monitoring bore will trigger further consideration of groundwater level results.	No groundwater monitoring has been conducted. Awaiting approval of the Water Management Plan.	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
21.	8.3.2.2	<p>The following actions will be implemented if a water quality parameter trigger level has been exceeded.</p> <ul style="list-style-type: none"> • Check instrument calibration. • Assess the appropriateness of the sampling method used to collect the sample. • Assess whether any anomalous result is representative of changing conditions in the aquifer or sample disturbance during sampling e.g. water bailing in observation bores. • Review previous monitoring data from the bore and assess whether there are any obvious trends which may indicate changing groundwater conditions. • Check monitoring results for nearby monitoring locations to see if there is a common trend. • If there is no obvious explanation for the trigger level exceedance collect a sample from the monitoring bore for laboratory analysis (analytical suite listed in Table 37). • Investigate the potential cause of the trigger level exceedance. If a cause is identified rectify the problem and report incident to DPI Water or the EPA. 	No groundwater monitoring has been conducted. Awaiting approval of the Water Management Plan.	NT	
22.	8.3.2.2	If results are still in exceedance, DPI Water and the EPA will be consulted to determine the most appropriate actions to be implemented. The TARPS for level data, pit inflows and water quality must be reviewed after two years of baseline data have been gathered. This process should be undertaken in consultation with DPI Water	No groundwater monitoring has been conducted. Awaiting approval of the Water Management Plan.	NT	


Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
23.	8.3.3.2	<p>Where TRH, BTEX or “oil and grease” are detected in water sampled from the excavation sump:</p> <ul style="list-style-type: none"> • Cease use of water from the sump immediately. • Cease discharge of water from the sump to downgradient treatment ponds immediately. • Contact the analytical laboratory and have the sample in question re-analysed. • Inspect water within the excavation sump for evidence of hydrocarbon contamination (e.g. presence of rainbow sheen on the surface). • If a source or potential source of hydrocarbon impact is identified in the excavation implement controls to eliminate further impacts. • Where significant impacts are identified implement controls to prevent migration from the excavation. (e.g. skim any product from the surface and aerate pond). • Resample sump water within 2 weeks of detection or clean-up of impacts to confirm issue has been addressed 	No water has accumulated in the excavation sump.	NT	
24.	8.3.3.2	<p>The following actions will be implemented within 30 days of receipt of water quality data indicating that a water quality parameter trigger level has been exceeded.</p> <ul style="list-style-type: none"> • If ongoing analytical results are of similar concentration to baseline data, background, trigger levels will be reviewed in consultation with NSW DPI Water. • Re-sample the subject bore or sump if analytical results are significantly different to previous monitoring data. • Conduct a site inspection to check for possible causes for changed chemistry results. • If sampling results indicate groundwater contamination is occurring investigate possible sources and apply additional controls as required. • Consider the need for additional monitoring to delineate the extent of any significant groundwater contamination identified during routine monitoring. 	<p>No groundwater monitoring has been conducted. Awaiting approval of the Water Management Plan.</p>	NT	


Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
25.	9.1	<p>In the event of unforeseen impacts associated with surface water, the following protocol will be implemented:</p> <ul style="list-style-type: none"> • Raise an incident report in the Incident Management, Notification and Reporting System (refer Section 11). • Undertake reporting of the incident to the regulatory agency in accordance with Incident Management, Notification and Reporting System (refer Section 11). • A preliminary review will be conducted of the nature of the impact, including: <ul style="list-style-type: none"> i. any relevant monitoring data ii. current quarrying activities and land use practices. • Commission of an investigation by a groundwater expert into the unforeseen impact to confirm cause and effect and consider relevant options for amelioration of impact(s); prepare an action plan in consultation with the appropriate regulatory agency. • Mitigate causal factors where possible. • Implement additional monitoring as necessary to measure the effectiveness of the controls implemented. The outcomes of this protocol will be reported in the Annual Environmental Review report. The implementation of any mitigation measures will be undertaken in consultation with the relevant regulatory authorities. \ 	No unforeseen impacts had been identified.	NT	
26.	9.1	<p>The following contingency measures are considered suitable for addressing unforeseen surface water impacts to the Quarry.</p> <ul style="list-style-type: none"> • Review stormwater management structural controls and identify opportunities for improvements to infrastructure; and • Review and amend Water Management Improvement Plan to implement any additional infrastructure that may be required. 	No unforeseen impacts had been identified.	NT	



Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
27.	9.2	<p>The following actions are recommended in the event that more than 10 m of drawdown (below the maximum measured pre-development water level) is observed within the proposed groundwater monitoring wells.</p> <ul style="list-style-type: none"> Assess activity within the Quarry and whether it may have resulted in the water level decline. If there was no significant change to the Quarry depth or footprint during the time in which drawdown occurred then the observed change is more likely to be associated with climatic variation in the previous monitoring period. Assess recent climatic conditions. Consider whether the observed fall in water levels corresponds with recent climatic conditions, such as a period of drought, or the summer period. Assess the standing water level elevation relative to the elevation of nearby parts of Yorkey's Creek. If the standing water level has fallen below the Creek elevation then consider whether adverse impacts could be occurring to Yorkey's Creek. If unexpected excessive drawdown impacts are observed in the proposed groundwater monitoring bores additional monitoring bores shall be considered closer to the receptor(s) at risk. This may include Yorkey's Creek and off-site groundwater works. 	<p>No monitoring of groundwater levels has been conducted.</p> <p>Awaiting approval of the Water Management Plan.</p>	NT	
28.	9.2.2	<p>The following contingency measures are considered suitable for addressing higher than expected groundwater inflow to the Quarry.</p> <ul style="list-style-type: none"> Install additional water treatment capacity into the downgradient water treatment ponds and dams. This could include the establishment of an evaporation sump in the base of the Quarry; and Obtain additional water allocation to account for the additional take (or indirect take) of groundwater. 	<p>No groundwater has flowed into the quarry.</p>	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
29.	9.2.3	The following measures could be implemented to address any unforeseen issues with release water quality: <ul style="list-style-type: none"> • Reassess the appropriateness of the trigger(s) that have been exceeded. • If the exceeded trigger(s) is found to be appropriate then identify and eliminate the source of water quality decline. This could most likely be achieved by implementing more effective environmental management procedures to be determined by the nature of any identified unacceptable impact. • Add additional water storage and/or treatment capacity into the downgradient water treatment ponds. • Additional storage capacity could improve management of water releases to the Coxs River. For example, allow release of water at times when dilution will occur naturally 	No ground water had accumulated or been released.	NT	
14 Competence Training And Awareness					
30.	14	All personnel and contractors working at the Quarry undergo an induction. This induction includes information on the management of water while working on Site. After completing the induction, workers will sign a statement of attendance and records of this are kept in the administration office. Monthly toolbox meetings are held to discuss whole-of-site production, management, safety and environmental issues. Matters relating to Water Management are raised during these meetings, when necessary	Site specific induction included reporting of spills. However, did not include any specific information on management of water while working on site. Records of toolbox meetings available.	N	01
15 WMP Review And Continual Improvement Protocol					
31.	15	This WMP will be reviewed by the NSW Quarry Operations Manager or delegate every three years from the date of approval or (in accordance with <i>Condition 5 of Schedule 5</i> of the Consent) within three (3) months of submission of an Annual Review, an incident report resulting from a notifiable incident, each independent environmental audit and any modification to the Consent.		NT	


Audit Checklist – Landscape and Rehabilitation Management Plan

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
7.2 Security, Management and Funding of the Biodiversity Offset Strategy					
1.	7.2.3	Has a conservation and rehabilitation bond been established?	Securing of the biodiversity offset area not required until September 2018.	NT	
2.	7.2.3	Was the bond verified by a suitably qualified quantity surveyor?	Not applicable.	NT	
3.	7.2.3	Is the value of the bond reviewed every 3 years?	Not applicable at this stage.	NT	
4.	8.2.1.1	Have survey markers been installed to identify the limits of extraction and an annual survey completed to confirm compliance with this measure?	Survey markers installed. 	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
5.	8.2.1.2	Profile, respread with soil and revegetate the slope between the main office and extraction area access road	Completed	C	
6.		<i>Yorkeys Creek Stockpile area</i> Establish and maintain a cover of grassy vegetation on the outer slopes of the stockpiled areas Reduce and ultimately have any stockpiled material shielded by landscaped areas of the Quarry	Grassy vegetation provided has been established on the outer slopes. Trees have been planted to shield the stockpile from the road.	C	
7.	8.2.1.2	Apply bituminous film to exposed terminal west facing walls to reduce the contrast between the pale rhyolite and the darker background vegetation	Had not been conducted at the time of audit. Reported that further spraying has been planned.	C	
8.	8.2.1.2	Investigate and implement the use of spray (hydro) seed to exposed walls	Reported that the use of spray seeding was considered but has not been used at this stage.	NV	
9.	8.2.1.2	Progressively rehabilitate the completed benches of the extraction area	No completed benches at this stage of the works.	NT	
10.	8.2.1.2	On completion of successive lifts, seed overburden to achieve at least 70% perennial groundcover	Lower areas of the overburden has been seeded. 	C	
11.	8.2.1.2	Initial revegetation to be followed by direct seeding or planting of tree and shrub species commensurate with the of the surrounding vegetation communities	Trees and shrubs have been planted in revegetated areas.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
12.	8.2.1.3	Establish rows of trees on the ridgeline to the immediate north of Yorkeys Creek Stockpile area	Planting had been conducted in the area 	C	
13.	8.2.1.3	Maintain tree plantings along Jenolan Caves Road, with water or fertiliser provided under extreme conditions to ensure survival and growth	Trees have been maintained. Reported that further plantings were planned. 	C	
14.	8.2.2	Has an annual survey been conducted to confirm extraction and overburden completed within the approved footprint	Aerial survey completed May 2017. Shows extraction area and depths.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
15.	8.3.1.1	Have signs been placed on selected survey markers to highlight the ecological sensitivity of the BOA to contractors and staff?	Signs have not been installed at this stage. Noted that while a biodiversity offset area had been identified, the biodiversity offset strategy had not been finalised at the time of audit.	A	05
16.	8.3.2	Are monthly boundary inspections conducted and any breaches rectified within 4 weeks?	Monthly boundary inspections reported to have been completed however no records available.	A	06
17.	8.3.2	Are all existing tracks mapped?	Aerial photographs and map provided which show all existing tracks.	C	
18.	8.3.2	Has work commenced on developing an access track management strategy?	Not commenced at time of audit	A	07
19.	8.3.2	Have ad hoc inspection of access tracks been undertaken and issues rectified within 4 weeks?	No issues identified with access tracks. Daily inspection shows road condition checked.	C	
20.	8.4.1.1	Is major clearing undertaken as a single campaign each year in accordance with the fauna protection measures presented in 8.4.1.2?	Yes – One major clearing event has been conducted for the first stage of Area 2.	C	
21.	8.4.1.1	Is clearing restricted to that required for the ensuing 12 months operations?	Reported to be provided for the next 6 months of extraction.	C	
22.	8.4.1.2	Vegetation clearing will be scheduled for April to September	Clearing conducted September 2017	C	
23.	8.4.1.2	Have preclearance surveys been conducted?	Preclearance survey conducted by Onsite Environmental. Completed 7/04/17, 23/11/16. Preclearance surveys were included in the Annual Review.	C	
24.	8.4.1.2	Are habitat features such as tree hollows, logs, rocky habitat, large bird nests and termite mounds been recorded using GPS?	Hollow bearing trees were located and marked, location recorded using GPS recorded and identified on Site maps. Included identification of fauna habitat features such as nests, scratchings and hollows. No rocky habitat, large bird nests and termite mounds identified.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
25.	8.4.1.2	Are hollow bearing trees identified to species level and marked with pink spray paint and flagging tape?	<p>Pre-clearing survey included marking of habitat trees with pink spray paint.</p>  <p>Habitat tree register provided which identified tree type</p>	C	
26.	8.4.1.2	Are other general features of the site to be cleared documented (e.g. incidental fauna observations)?	<p>Survey involved an assessment and mapping of existing vegetation in the clearing area and the identification of any EEC, threatened species, habitat trees and noxious weeds in the area.</p> <p>e.g. 23/11/16 – 3 records of threatened species (E Pulverulenta)</p>	C	
27.	8.4.1.3	Mature silver leaved mountain gum and the scrub species proposed will be undertaken by a suitable qualified provider such that the genetic integrity, structure and composition of native vegetation within the locality is maintained	Reported that seeds had been collected on site for preparing tube stock	C	
28.	8.4.1.3	Seeds will be sourced for the quarry site where possible (or within 5km).	Reported that seeds had been collected on site for preparing tube stock	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
29.	8.4.1.4	Vegetation will be cleared in a way that maximises the opportunity for recycling (see section 8.4.1.4)	Clearing undertaken under the guidance and direction of Onsite Environmental. No evidence of communication of requirements to operators	A	08
30.	8.4.1.5	Is available soil stripped to bedrock in areas disturbed by extraction or overburden placement?	Soil from the area cleared had yet to be stripped. Reported that stripping is planned to be conducted before December 2017.	NT	
31.	8.4.1.5	Operators will be instructed to handle soil as little as possible.	Clearing undertaken under the guidance and direction of Onsite Environmental. No evidence of communication of requirements to operators	A	09
32.	8.4.1.5	Soil stripping should not be conducted between December and February	Reported that stripping is planned to be conducted before December 2017.	NT	
33.	8.4.1.5	Soils should not be stripped or replaced during extremely dry or wet conditions	Soil from the area cleared had yet to be stripped.	NT	
34.	8.4.1.5	Stockpiles Operators will be instructed to place soil neatly and uniformly so the stockpile does not require further forming prior to vegetating	Soil from the area cleared had yet to be stripped. Reported that stripping is	NT	
35.	8.4.1.5	Driving of vehicles on soil stockpiles will be prohibited	No topsoil stockpiles on site	NT	
36.	8.4.1.5	Soil stockpiles will not exceed 2m in height	No topsoil stockpiles on site	NT	
37.	8.4.1.5	Stockpiles will be seeded and fertilised as soon as possible after placement, using a mix of sterile annual groundcover or native grasses	No topsoil stockpiles on site	NT	
38.	8.4.1.5	Prior to respreading, soil will be sprayed with a herbicide	Topsoil had not been retained for respreading	NT	
39.	8.4.1.5	Sampling and analysis of the soil will be completed (for selected campaigns) to assess potential constraints on revegetation	No sampling and analysis at this stage of the works.	NT	

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Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
40.	8.4.1.5	Soil resources will be replaced as a single blended topsoil/ subsoil unit with the depth between 300mm to 600mm.	Topsoil had not been retained for respreading	NT	
41.	8.4.1.5	Slow release fertilisers will be used in conjunction with organic matter		NV	
42.	8.4.1.5	Artificial covers such as bitumen impregnated straw or mulches will be used as required		Note	
43.	15	All personnel and contractors working at the Quarry undergo an induction. This induction includes information on the management of landscaping and rehabilitation while working on site. After completing the induction, workers will sign a statement of attendance and records of this are kept in the administration office. Monthly toolbox meetings are held to discuss whole-of-site production, management, safety and environmental issues. Matters relating to landscaping and rehabilitation are raised during these meetings, when necessary.	Quarry induction did not include information on the management of landscaping and rehabilitation while working on site.	N	01

Audit Checklist –Noise Management Plan

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
7.1 Proactive Management Measures					
1.	7.1.1	<p>All operations will be undertaken in accordance with the approved hours of operation presented in Table 7. For Extraction operations; Processing operations; Overburden Management; Stockpile Management</p> <ul style="list-style-type: none"> 6.00am to 10.00pm Monday to Friday 6.00am to 3.00pm Saturday At no time on Sundays or public holidays <p>Blasting – 10.00am to 3.00pm Monday to Fridays Loading and despatch:</p> <ul style="list-style-type: none"> 5.00am to 10.00pm Monday to Friday 5.00am to 3.00pm Saturday At no time on Sundays or public holidays <p>Maintenance - anytime</p>	Site operating hours were in compliance with Table 7.	C	
7.1.2 Operational Designs and Controls					
2.	7.1.2	<p>Design Features</p> <ul style="list-style-type: none"> No additional processing equipment is proposed with all fixed plant to remain in current locations, i.e. noise from processing operations would remain the same as that currently generated. The continued operation of the primary conveyor between the primary crushing station and secondary processing area reduces noise emissions significantly by avoiding the requirement for truck movements between the extraction and processing areas. By sequencing the proposed Stage 2 extraction area to reduce the visual exposure of the extraction operations, noise attenuation is also provided. Stockpiles and ancillary equipment will be positioned to limit potential noise impacts. Ancillary equipment will be enclosed, where feasible. 	No additional processing equipment had been installed	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
3.	7.1.2	<p>Operational Safeguards</p> <ul style="list-style-type: none"> All approved hours of operation would be strictly adhered to. Compliance with the maximum number of truck movements per day nominated in Condition 8 of Schedule 2 of SSD-6084. All drivers would be required to sign the Chain of Responsibility, and, the Driver's Code of Conduct documentation requiring a high standard of driver performance, avoidance of using exhaust brakes in built-up areas and travel at the required speeds. The internal road network would be maintained to their current standard and if any new roads are proposed these will be constructed to similar standards to limit body noise from empty trucks. All equipment on site would be serviced in accordance with Original Equipment Manufacturer (OEM) requirements to ensure sound power levels of each item remains at or below that nominated for noise modelling purposes (see Table 5.1 of Benbow, 2014). This would include ensuring that all product delivery trucks under Hy-Tec responsibility are maintained to meet RMS noise limit requirements. Operations at exposed locations and under unfavourable weather conditions will be modified, where necessary, to reduce potential noise-related impacts. Maintenance work on all plant and equipment would be confined to approved maintenance hours. 	Operational safeguards have been implemented.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
7.2 Reactive Management Measures					
4.	7.2.1	<p>Triggers</p> <p>Four triggers for reactive management will be applied.</p> <p>a) Noise Complaint. Any complaint received, either directly or via Council, EPA or other regulatory agency, will trigger the implementation of the response and corrective action measures described in Section 7.2.2.</p> <p>b) Exceedance of noise criteria established through noise monitoring. Any record of noise exceeding the criteria nominated in Section 9 will trigger the response and corrective action measures described in Section 7.2.2.</p> <p>c) Emergency Events. Any request from police or in the event of an emergency will result in the activation of reactive management measures described in Section 7.2.2.</p> <p>d) Extraordinary Weather Events. If any of the meteorological conditions detailed in Appendix 5 Condition 1 of SSD-6084 are observed reactive management measures will be triggered, as described in Section 7.2.2,</p>	No reactive management measures have been triggered.	NT	
5.	7.2.2	<p>Noise Complaint</p> <p>A Complaints and Incidents Procedure is provided in Section 3.8 of the Environmental Management Strategy and Plan (EMSP). Following receipt of a complaint appropriate action will be taken within two working days to determine the cause of the complaint and identify appropriate actions to remediate the complaint source. The following details will be recorded following receipt of any noise-related complaint.</p> <p>a) The date and time of the complaint.</p> <p>b) The method by which the complaint was made.</p> <p>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.</p> <p>d) The nature of the complaint.</p> <p>e) The action taken in relation to the complaint, including any follow-up contact with the complainant.</p> <p>f) If no action was taken, the reasons why no action was taken.</p>	No noise complaints have been received	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
6.	7.2.2	<p>Noise Criteria Exceedance</p> <p>If noise monitoring indicates that noise exceeds the approved criteria, the following response and action plan will be implemented.</p> <ol style="list-style-type: none"> 1. After obtaining exceedance information, the Quarry Production Manager (or delegated representative) will review meteorological conditions to assess whether these represent conditions for which the noise criteria do not apply. 2. The Quarry Production Manager will immediately investigate the source of the noise, review the performance of equipment and if necessary make arrangements to alter the configuration of equipment, or stand down specific equipment, so that the noise levels are reduced. 3. If meteorological conditions were such that noise conditions did not apply (refer to Section 6 and Appendix 5 of SSD-6084), the Quarry Production Manager will document the exceedance including the relevant meteorological conditions. 4. As soon as is practical following a confirmed exceedance of noise criteria, the Quarry Production Manager will notify DPE and EPA of the exceedance and actions being taken to remediate the source of excessive noise. This timing is consistent with that nominated in Condition 6 of Schedule 5 of SSD-6084. 5. Noise monitoring will be repeated to confirm compliance with the approved noise criteria. 6. Within 7 days of the date of the incident the Quarry Production Manager will provide a detailed report on the incident to DPE and EPA. 7. Within two weeks of obtaining any data showing an exceedance of noise criteria, the Quarry Production Manager will notify in writing any affected landowners or tenants. 8. Any exceedance of the approved noise criteria will be reported to EPA in the Annual Return and to DPE in the Annual Review. 	No noise exceedances have been identified.	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
7.	7.2.2	<p>Emergency and Extraordinary Weather Events</p> <p>In the event that deliveries or despatch are requested at unusual times by Police or other authorities or in the event of an emergency, the Quarry Production Manager will act appropriately to ensure the general safety of employees and the local community. It is noted that these events are permitted outside the hours of operation required by Condition 1 of Schedule 3 in SSD-6084.</p> <p>Appendix 5 of SSD-6084 notes that noise criteria do not apply under the following conditions.</p> <p>a) wind speeds greater than 3m/s at 10m above ground level; or</p> <p>b) temperature inversion conditions between 1.5°C and 3°C/100m and wind speed greater than 2m/s at 10m above ground level; or</p> <p>c) temperature inversion conditions greater than 3°C/100 m.</p> <p>Regardless of this, during times when these conditions are forecast or observed, the Quarry Production Manager will modify operations to minimise potential noise impacts as much as practically possible. This may include but is not limited to:</p> <ul style="list-style-type: none"> □ turning off or limiting operations of mobile equipment or fixed plant; □ redirecting operations to more sheltered areas within the extraction area; and □ moving equipment to lower elevations 	No deliveries or despatch have been by Police or other authorities.	NT	
8. NOISE MONITORING					
8.	8.2	<p>Meteorological Monitoring</p> <p>A meteorological station has been operated at the Quarry Site since 2003. Condition 13 of Schedule 3 of SSD-6084 requires that a suitable meteorological station be operating in the vicinity of the Quarry Site in accordance with the requirements described in the Approved Methods for Sampling of Air Pollutants in New South Wales. In addition, Condition M8.1 of EPL 12323 requires monitoring of the parameters, units of measure, averaging period and frequency specified in Table 8.</p>	Weather station operating on site which monitors the variables as required in EPL 12323.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
9.	8.3	Noise Monitoring Locations Attended noise monitoring will be undertaken at the locations presented in Figure 3. The locations are summarised in Table 9. Unattended noise monitoring will be undertaken at the closest privately-owned residence only (Location B).	Noise monitoring has been conducted at locations A, B, C as identified in Table 9.	C	
10.	8.4.2	Methodology Noise monitoring will be undertaken in accordance with the following documents. <ul style="list-style-type: none"> NSW Industrial Noise Policy (INP). AS 1055.1-1997 “Acoustics – Description and Measurement of Environmental Noise – General Procedures”. 	Noise monitoring has been conducted by a noise consultant. Report shows monitoring conducted in general in accordance with the NSW INP and AS 1055-1997.	C	
11.	8.4.2	Information that will be recorded during monitoring and about each location will include: <ul style="list-style-type: none"> the name of the person undertaking the monitoring; location(s) of the monitoring; recording intervals (date and times); meteorological conditions i.e. temperature, humidity, cloud cover, and wind speed and direction drawn from the on-site meteorological station; statistical noise level descriptors together with notes identifying the principal noise sources; instrument make, model, serial number and calibration details; and a brief description of activities occurring during the monitoring period. 		C	
12.	8.4.3	Attended Monitoring Attended noise monitoring will be undertaken at locations A, B and C (see Figure 3) and (in accordance with Condition 4(c) of Schedule 3 of SSD-6084) will occur at least every 6 months. Monitoring will take place over a single day and record representative noise levels covering the day, evening and night time periods.	Attended monitoring not conducted 6 monthly. Conducted on an annual basis. Conducted September 2016 and September 2017.	A	03
13.	8.4.3	Attended noise monitoring will be undertaken using a hand-held noise meter. The maximum (L_{Amax}), and the energy equivalent (L_{Aeq}) intrusive noise level over a 15 minute measurement period will be recorded. If necessary, other descriptors such as L_{A10} , L_{A50} , L_{A90} , L_{A99} and L_{Amin} could also be recorded. Wherever possible, the L_{A90} noise level (i.e. without contributions from Quarry activities) will be recorded to identify the prevailing a background noise level.	Attended monitoring conducted on an annual basis. Conducted September 2016 and September 2017. $L_{Aeq,15min}$ reported. L_{Amax} not reported in September 2016 report.	A	10

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Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
14.	8.4.4	<p>Unattended monitoring will be undertaken annually at location B (see Figure 3) for a minimum period of 5 days and cover the day, evening and night time periods.</p> <p>A mobile unattended noise monitor will be programmed to record the following.</p> <ul style="list-style-type: none"> Statistical noise parameters (including LA1, LA10; LA90); LAeq (15min) in 1/3 octaves to enable frequency analysis; and Periodic audio files (period nominally 1 minute per 15 minute period). <p>The unattended noise monitor will be calibrated against the results of the attended noise monitoring. Data from the unattended noise monitor will be retrieved via remote telemetry for the comparison with the noise criteria (Section 6).</p>	<p>Todoroski Air Services Pty Ltd, conducted a single noise monitoring campaign during September 2016.</p> <p>Unattended noise monitoring was undertaken at the nearest residential location R31 between Wednesday, 7 September 2016 and Monday, 12 September 2016.</p>	C	
15.	8.5	<p>Supplementary Monitoring</p> <p>In the event of a noise-related complaint, Hy-Tec would review the results of the noise monitoring program and make the results of that monitoring and/or subsequent investigation available to the complainant. In the event that this does not resolve the complaint, the Company would undertake a supplementary attended noise survey.</p>	No supplementary monitoring has been required.	NT	
16.	8.6	<p>Evaluation Of Results</p> <p>A noise monitoring report will be prepared by the person or company responsible for the monitoring within 7 days of each attended noise monitoring event. That report will include an assessment of the monitoring results against the criteria identified in <i>Condition 3</i> of Schedule 3 of SSD-6084. The monitoring report will be reviewed by the Quarry Production Manager and a copy included within the Annual Review.</p>	<p>Noise report provided by Todoroski Air Services Pty Ltd on 30/11/16.</p> <p>Final report issued 30/08/17.</p> <p>Noise Monitoring conducted October 2017 by Muller Acoustic Consulting.</p> <p>Attended monitoring completed 4&5 October 2017.</p> <p>Unattended monitoring conducted 19/09/17 to 5/10/17. Report not available at time of audit.</p> <p>Report provided subsequent to completion of on-site component of audit.</p>	A	11
17.	8.6	In the event that the noise monitoring report identifies an exceedance of the relevant criteria, the procedures identified in Section 7.2.2 will be implemented.	No exceedances have been recorded.	NT	
9. COMPLAINTS HANDLING AND RESPONSE					
18.		Complaints will be managed in accordance with the procedure described in Section 3.8 of the Environmental Management Strategy and Plan (EMSP) and Section 7.2.2 above.	No complaints had been received	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
10. INCIDENT MANAGEMENT, NOTIFICATION AND REPORTING					
19.	10.1.1	In the event of a noise-related incident which is deemed a Pollution Incident (see Section 10.1), the Quarry Production Manager will be notified and the event will be reported to the EPA at the first practical opportunity (and within 24 hours of the incident). An investigation into the source of the offending noise will be immediately commenced and once identified the Quarry Production Manager or delegate will implement one or more of the corrective measures identified in the Noise Management System (see Section 7). Within 7 days of the incident, the Company will submit a report to DPE confirming the source of the offending noise, actions taken and ongoing management to prevent future incident to the regulatory authorities.	No incidents have been recorded.	NT	
11. DOCUMENTATION AND PUBLICATION OF MONITORING INFORMATION AND REPORTING					
20.	11	Hy-Tec will retain records of meteorological monitoring and noise monitoring for a minimum period of four years. Monitoring records will be made available to relevant government authorities following a written request.	Monitoring records were readily available during the audit.	C	
21.	11	Hy-Tec will include all attended noise monitoring reports as appendices to the Annual Review. That document, once approved by the relevant government agencies, would be published on the Company's website.	Annual review includes noise monitoring data in Appendix F.	C	
22.	11	In accordance with the requirements of Section 66(6) of the Protection of the Environment Operations Act 1997, each month Hy-Tec will publish a meaningful summary of all pollution monitoring data on the Company's website. The summary will be published within 14 days of the last sample for that period being collected. In addition, Hy-Tec will provide a copy of obtained data (the value of each individual monitoring sample) free of charge to a member of the public when requested in writing. The data will be provided in a format that includes raw data values if requested, is comprehensible by the general public and also includes all accompanying necessary information.	Noise monitoring data was available on the company website.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
13. COMPETENCE TRAINING AND AWARENESS					
23.	13	All personnel and contractors working at the Quarry undergo an induction. This induction includes information on the management of noise while working on site.	Quarry induction did not include information on the management of noise while working on site	N	01
24.	13	Monthly toolbox meetings are held to discuss whole-of-site production, management, safety and environmental issues. Matters relating to noise are raised during these meetings, when necessary.	Toolbox meetings conducted. No matters identified which required discussion at toolbox meetings.	NT	
14. PLAN REVIEW AND CONTINUAL IMPROVEMENT PROTOCOL					
25.	14	In accordance with Condition 5 of Schedule 5 of SSD-6084, the Plan will be internally reviewed within 3 months of submission of an Annual Review, an incident report resulting from a notifiable incident, each independent environmental audit and any modification to SSD-6084 to address feedback from these processes.		NT	

Audit Checklist –Blast Management Plan

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
6.0 Blasting Criteria and Limits					
1.	6.1	Has blasting been in accordance with the blast criteria presented in Table 3?	No exceedences of the blast criteria have been recorded.	C	
2.	6.1	The criteria of Table 3 also do not apply if Hy-Tec has a written agreement with the owner of a residence for alternative criteria		NT	
6.2 Other Limits					
3.	6.2.1	Operational hours for blasting will be limited to 10:00am to 3:00pm Monday to Friday (excluding public holidays). Blasting outside these hours may be undertaken only in the event of a misfire or where blasting is required to ensure the safety of the Quarry or Quarry personnel and visitors.	Blasting records show all blasts had occurred within the lime limits specified.	C	
4.	6.2.2	Blasting frequency will be limited to a maximum of one blast per calendar week, unless an additional blast is required following a misfire.	Blast data shows 2 blasts per month generally conducted. No instances where more than one blast per week had occurred.	C	
7.0 Blast Management System					
7.1 Proactive Management					
5.	7.1.1	A site blast notification board will be in place to inform all site personnel of blast activity on site.		NV	
6.	7.1.1	Following approval of the BMP, the residents of properties with a 2km radius of the Quarry will be contacted to determine their preferred method to be notified of scheduled blasting events. It is anticipated that this may require a blast notification letter, personal phone call or text message or notification via the Hy-Tec website.	Blast notification letter sent to residents. Reported that a letter drop conducted at least one week prior to each blast. Sighted 4/10/17 for blast conducted on 11/10/17.	C	
7.	7.1.1	Unless required for safety management reasons, blast notifications will be issued a minimum of 24 hours prior to any blast.	Reported that a letter drop conducted at least one week prior to each blast. Sighted 4/10/17 for blast conducted on 11/10/17.	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
8.	7.1.2	Meteorological data will be reviewed by the Quarry Production Manager and/or blasting contractor who will check weather conditions for coming blast events and plan accordingly for adverse weather.	Meteorological data had been recorded. Review of records did not identify any blasting in adverse weather conditions.	C	
9.	7.1.3	<p>Hy-Tec will implement the following additional blast impact mitigation measures to ensure the safety of people, livestock, public and private infrastructure, equipment and vehicles in the surrounding areas.</p> <ul style="list-style-type: none"> • Long-term (annual) scheduling of activities to limit blasting activities during the daily periods when adverse conditions are most likely to occur. • Short-term modification of blasting activities in response to forecasting of adverse conditions in the short-term. • Blast contractors, in conjunction with the Quarry Production Manager, will review blast monitoring records to enable continuous improvement and quality control, resulting in continual development of optimum blast parameters. • Quality control practices are to be implemented on the ground to ensure blasts are kept within design tolerances. • Adequate burden is to be maintained on all faces to prevent blowouts and blast anomalies. • Blast energies are to be minimised as far as possible. • Adequate exclusion / clearance zones are to be maintained to ensure that the safety of people, equipment, vehicles or livestock on nearby land will not be affected by blasting. • Best practice methodology is used to ensure fly-rock and fumes as low as reasonably practicable levels. • Blasts are only fired in optimal weather conditions. In the event that unfavourable meteorological conditions are identified, the shot-firer will liaise with the Quarry Production Manager to determine whether to postpone a blast. • Each blast will be monitored to confirm compliance with air blast overpressure and ground vibration criteria. • Training will be provided to all relevant personnel on environmental obligations in relation to blasting controls. 	<p>Blast activities limited to 10am to 3pm. Weather conditions were included in blast records. Quality control practices had been identified and implemented. No reported instances where blowouts and blast anomalies had occurred. Last monitoring had been conducted, with no exceedences recorded. Specialist contractor engaged for blasting.</p>	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
10.	7.1.3	Hy-Tec will implement the following quality control measures to minimise the dust emissions of blasting. <ul style="list-style-type: none"> Monitoring of blast performance with improvements to be made in response to elevated ground vibration or air overpressure. Restricting blast firing to times of optimal weather conditions, where practical. Use of high quality stemming products. Minimising blast energies. 	Blast monitoring conducted. No blasting had occurred in adverse weather conditions No exceedences of blast criteria had been identified.	C	
11.	7.1.3	Hy-Tec will implement the following measures to minimise fume emissions generated from blasting. <ul style="list-style-type: none"> Monitoring and calibration of the explosive manufacturing unit to ensure explosive mixing is in the correct proportions. This will ensure that noxious fuming is kept to a minimum. Use of emulsion based explosive products, minimising the effects of wet holes on ammonium nitrate and thus reducing the potential for fuming. 	No reported occurrences of excessive fume generation from blast activities.	C	
7.2 Reactive Measures					
12.	7.2.1	Any complaint received, either directly or via Council, EPA or other regulatory agency, will trigger the implementation of the response and corrective action measures described in Section 7.2.2.	No complaints have been received	NT	
13.	7.2.1	Any record of blasting exceeding the criteria nominated in Section 6 will trigger the response and corrective action measures described in Section 7.2.2.	No exceedences of blast criteria have been recorded.	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
14.	7.2.2	<p>Following receipt of a complaint, appropriate action will be taken within two working days to determine the cause of the complaint and identify appropriate actions to remediate the complaint source. The following details will be recorded following receipt of any blast-related complaint.</p> <p>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 in relation to the complaint, including any follow-up contact with the complainant. f) If no action was taken, the reasons why no action was taken.</p>	No complaints have been received	NT	
15.	7.2.2	<p>All complaints will be investigated and an appropriate response provided to the complainant. The investigation may include determination of the following.</p> <ul style="list-style-type: none"> • What activities (and / or equipment) were being carried out or operated at the time of the complaint. • Whether at the time of the complaint, normal day-to-day activities were being conducted. • Whether equipment or activities on-site were the potential source of complaint (or whether other activities in the locality may have contributed to the complaint). • What actions may be carried out to resolve the complaint and / or minimise the likelihood of further complaints. 	No complaints have been received	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
16.	7.2.1	<p>If monitoring indicates that air blast overpressure or ground vibration exceeds criteria as a result of blasting, the following response and action plan will be implemented.</p> <ol style="list-style-type: none"> 1. Immediately after obtaining exceedance information, the Quarry Production Manager (or delegated representative) will review the monitoring results and if necessary make arrangements to alter the blasting design, so that the airblast overpressure or ground vibration levels are reduced. 2. As soon as is practical following a confirmed exceedance of blast criteria, the Quarry Production Manager will notify DPE and EPA of the exceedance and actions being taken to remediate the cause of the exceedance. This timing is consistent with that nominated in <i>Condition 6</i> of Schedule 5 of SSD-6084. 3. Within 7 days of the date of the incident the Quarry Production Manager will provide a detailed report on the incident to DPE and EPA. 4. Within two weeks of obtaining any data showing an exceedance of blast criteria, the Quarry Production Manager will notify in writing any affected landowners or tenants. 5. Any exceedance of the approved blast criteria will be reported to EPA in the Annual Return and to DPE in the Annual Review. 	No exceedences of blast criteria have been recorded.	NT	
8.0 Monitoring					
8.1 Meteorological Monitoring					
17.	10.2	A suitable meteorological station be operating in the vicinity of the Quarry Site in accordance with the requirements described in the Approved Methods for Sampling of Air Pollutants in New South Wales.	Meteorological station operated on site.	C	
18.	10.2	Meteorological monitoring will be accompanied by a quantitative record of weather conditions during the monitoring period together with a qualitative description of weather conditions, including cloud cover, fog etc. Where relevant, this data may be used to record environmental conditions during blasting events and derive any relevant relationship between air blast overpressure and ground vibration monitoring records	Blast records include description of meteorological conditions.	C	


Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
8.2 Blast Monitoring Locations					
19.	8.2	Blast monitoring is undertaken adjacent to the village of Little Hartley. The blast monitoring location is displayed in Figure 3 .	Blast monitoring had been conducted at the identified location.	C	
Monitoring data was available for blasts.					
20.	8.3	<p>Monitoring will be used to capture and record all blast events. The following information will be recorded as part of the monitoring procedure.</p> <ul style="list-style-type: none"> Blast noise overpressure (dBL_{peak}) and peak particle velocity (ppv) (mm/s) in a radial, vertical and transverse direction. The time and duration of monitoring for each location. Licence limits, where appropriate. Wind speed and direction. The type of monitoring being undertaken. The monitoring location. <p>The results of all blasts will be documented by the blasting contractor and records maintained by the Quarry Production Manager.</p>		C	
10.1 Incident Management and Notification					
21.	10.1.1	In the event of a blast-related incident which is deemed a Pollution Incident, the Quarry Production Manager will be notified and the event will be reported to the EPA at the first practical opportunity (and within 24 hours of the incident).	No blast-related incidents have been recorded.	NT	
22.	10.1.1	An investigation into the cause of the exceedance will be immediately commenced and once identified the Quarry Production Manager or delegate will implement one or more of the corrective measures identified in the Blast Management System (see Section 7).	No blast-related incidents have been recorded.	NT	
23.	10.1.1	Within 7 days of the incident, the Company will submit a report to DPE confirming estimated cause of the exceedance, actions taken and ongoing management to prevent future incidents	No blast-related incidents have been recorded.	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
24.	10.1.2	On identification of a non-compliance against blasting criteria, which may follow receipt of a complaint, the Quarry Production Manager will be notified and an investigation into the cause of the non-compliance or complaint causing emissions commenced in accordance with the response and corrective actions described in Section 7.2.2 including notification protocols.	No non-compliance against blasting criteria has been recorded.	NT	
11. Documentation and Publication of Monitoring Information and Reporting					
25.	11	Hy-Tec will retain records of meteorological monitoring and blast monitoring for a minimum period of four years. Monitoring records will be made available to relevant government authorities following a written request.	Blast records were readily available on site.	C	
26.	11	Hy-Tec will include a summary of blast monitoring results within the Annual Review. That document, once approved by the relevant government agencies, would be published on the Company's website.	Blast monitoring results were included in Appendix J of the Annual Review for 2016-2017.	C	
27.	11	Hy-Tec will publish a meaningful summary of all pollution monitoring data on the Company's website. The summary will be published within 14 days of the last sample for that period being collected.		C	
13. Competence Training and Awareness					
28.	13	All personnel and contractors working at the Quarry undergo an induction. This induction includes information on blasting protocols and management while working on site.	Quarry induction did not include information on blast protocols and management while working on site	N	01
29.	13	Monthly toolbox meetings are held to discuss whole-of-site production, management, safety and environmental issues. Matters relating to blasting are raised during these meetings, when necessary	Records of toolbox meetings were available.	C	

Audit Checklist – Biodiversity Offset Management Plan

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
1.	3.2	Hy-Tec proposes to secure the BOA, including Conservation Area H (DA 103 194), through a Nature Conservation Trust (NCT) agreement.		Note	
2.	3.3	The BOA will be protected by existing fences that exclude stock from the Austen Quarry. It is not anticipated that a fence will be required along the eastern boundary of the BOA (Coxs River) which is secure due to its steepness and inaccessibility. The existing fences are a four strand post-and-wire fence. It is considered that fencing the BOA with new fences on its boundary would cause more environmental harm than is gained, given stock cannot currently access the Quarry or BOA. Signs will be erected to highlight the ecological sensitivity of the BOA to contractors and staff.	Existing fences have been retained	Note	
3.	3.3	The remaining lease area is well gated and fenced and excludes access to the rehabilitation areas. These access restrictions will be maintained throughout the operational life of the quarry, and in perpetuity. The condition of existing fences and gates will be monitored by the Hy-tec Quarry Production Manager or their delegate as part of the ongoing monitoring program and failed or damaged fencing or gates to be replaced as soon as practical following detection.	Monthly boundary inspections were reported to be undertaken, however no records of inspections were available.	A	06
4.	3.4	The collection and propagation of locally native and provenance seed will be carried out as the initial task in the installation of silver-leaved mountain gum tubestock and associated native species. Seed collection is not contingent on staging of other works and will be undertaken in late spring/early summer when the flowers fade. Seed collection will be carried out by a suitably qualified provider such that the genetic integrity, structure and composition of native vegetation within the locality is maintained. This is particularly important given the presence and conservation significance of silver-leaved mountain gum	Reported that seeds had been collected on site for preparing tube stock. Reported that the local Landcare group were consulted and assisted in the growth of tube stock.	C	
5.	3.5	Appendix B provides a planting schedule for the rehabilitation areas and was determined with reference to the flora species recorded for the BIA (Niche 2014) and with a view to reinstating the structure of the local vegetation which provides competition for weed incursions that may threaten the planted silver-leaved mountain gum. Where appropriate, other local species will be utilised for collection, propagation and installation depending on seasonal availability		NT	

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Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
6.	3.9.1	A suitably qualified and experienced ecologist should conduct a pre-clearing survey, during which habitat features of importance to native fauna will be recorded spatially using a differential GPS. The survey will involve traversing the study area in parallel linear transects approximately 20 metres apart. Important features include tree hollows, logs, rocky habitat, large bird nests and termite mounds	Pre-clearing survey completed by On-site Environmental.	C	
7.	3.9.1	Hollow bearing trees should be identified to species level, recorded with a GPS, the number of hollows recorded and marked with pink spray-paint and flagging tape. The height, position (branch or trunk) and diameter of each hollow should also be recorded. Additional comments will be made regarding the nature of the tree and its chances of acting as habitat. Hollow bearing trees will only be marked if they are considered to contain hollows greater than five centimetres in diameter.	Pre-clearing survey included marking of habitat trees with pink spray paint.  Habitat tree register provided which identified tree type	C	
8.	3.9.2	Other general features of the site to be cleared will be documented and a list of incidental vertebrate fauna observations will be made (including a bird survey). Searches of rocky habitat, and evidence of traces such as scats, diggings and feeding marks of gliders will also be conducted. No targeted threatened fauna survey will be conducted.	Survey involved an assessment and mapping of existing vegetation in the clearing area and the identification of any EEC, threatened species, habitat trees and noxious weeds in the area. e.g. 23/11/16 – 3 records of threatened species (E Pulverulenta)	C	

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Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
9.	3.9.2	Salvaged resources from cleared areas will be utilised in the rehabilitation areas (i.e., planted areas) of the Quarry Site. The use of logs, rocks and fallen trees salvaged from the disturbed area will augment habitat quality and quantity within the rehabilitation areas and also help to protect planted tubestock, much of which will be silver-leaved mountain gum. Any movement of material will be under the advice of a suitably qualified and experienced ecologist and will be guided by published benchmarks regarding the amount of material/resources to be placed (e.g. the benchmarks for the length of fallen logs per 1,000 square metres in the NSW Plant Community Types database).	Only one 1.5Ha rehabilitation program has been conducted since commencement of the new SSD Consent had been granted. Clearing undertaken under the guidance and direction of Onsite Environmental. Survey completed which involved an assessment and mapping of existing vegetation in the clearing area and the identification of any EEC, threatened species, habitat trees and noxious weeds in the area.	C	
10.	3.11	Clearly delineated conservation exclusion zones within and around the existing Quarry and Stage 2 Extension will be implemented following approval of the BOMP to exclude movement of vehicles, plant and staff within rehabilitation areas and the BOA, other than for management activities related to the SLMGMP or the BOMP. A compulsory component of the site induction process will be to highlight all conservation exclusion areas and the BOA in its entirety on a map of the site	Markers, fencing or flagging had not been provided around vegetation to be protected or areas undergoing rehabilitation. Management of the Biodiversity Offset Area will commence once this area is secured.	A	12
11.	4.1	The core population and non-core occurrences of silver-leaved mountain gum within the BOA will be subject to a simple yet rigorous monitoring system. An initial monitoring event will occur following approval of the SLMGMP (preferably in spring) and be repeated biennially during spring thereafter for the life of the quarry.	The Biodiversity Offset Area had not been finalised at the time of audit.	NT	
12.	4.2	Monitoring of replanted silver-leaved mountain gum within the Replanting Area and the Rehabilitation Areas will take place at three, six and 12 months post planting during the first year by the Hy-Tec Quarry Production Manager and in spring biennially thereafter and will mostly be based on visual inspection of survival rates and photographic evidence.	Annual review identified 1.45 Ha under rehabilitation for the reporting period. Monitoring record showed planting in November 2016, monitoring conducted in December 2016, and February 2017. Reported that monitoring discontinued as plants failed to establish	C	
13.	4.3	A performance evaluation program will be implemented to: <ul style="list-style-type: none"> ensure the actions as prescribed in this management plan are monitored against known targets; outline adaptive and remedial actions should the targets not be met; and provide details of who will be responsible for implementing and reviewing the actions and monitoring program. 		NT	

Audit Checklist – Sliver Leaved Mountain Gum Management

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
Sliver Leaved Mountain Gum Management					
1.	4.5	The collection and propagation of locally native and provenance seed will be carried out as the initial task in the installation of silver-leaved mountain gum tubestock and associated native species. Seed collection is not contingent on staging of other works but will be carried out by a suitably qualified provider such that the genetic integrity, structure and composition of native vegetation within the locality is maintained	Reported that Lithgow Native Nursery has a collection of ~70,000 seeds previously collected from the site. Noted that 2000 plants are now available for planting.	C	
2.	4.5	Seed will be sourced as close as possible to the site and from the same general habitat. Propagules from a target range of five kilometres from the site is considered satisfactory, however it is anticipated that collection of silver-leaved mountain gum seed will occur from previously planted areas within the quarry lease and that most of the other local native species can be sourced from within or adjacent to the site.	Reported that seeds have been sourced on site.	C	
3.	4.6.2	Plants delivered to site will be hardened off to suit the conditions that could reasonably be anticipated to exist on site at the time of delivery. Suitable root development will be present such that the root ball does not disintegrate on removal from the tray or forestry tube. The root mass will be well proportioned in relation to the size of the plant material, conducive to successful installation, free of any indication of having been restricted or damaged and, in the case of hiko-cells, be air-pruned. Plants will be supplied with foliage size, texture and colour at time of delivery consistent with the size, texture and colour shown in healthy specimens of the nominated species.	1,000 tubestock planted, however were decimated due to extreme dry conditions and herbivores.	C	
4.	4.6.3	Plants will be delivered to site that are free from pests or disease. Where attack is evident, plant supply will be restricted to those specimens with evidence of attack to less than 15 per cent of the foliage and ensure absence of actively feeding insects.	1,000 tubestock planted, however were decimated due to extreme dry conditions and herbivores.	C	
5.	4.6.4	Tubestock will be delivered to the site on a day to day basis, and planted immediately after delivery.	1,000 tubestock planted, however were decimated due to extreme dry conditions and herbivores.	NT	
6.	4.6.4	Is there a procedure for the replanting of rehabilitation areas? Does it comply with the requirements of Section 4.6 of the SLMGMP?	No procedure available on site. Not clear how this the process for replanting of rehabilitation areas is communicated to the persons undertaking the work.	A	13

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
7.	4.7	Has the BOA been subject to biannual maintenance weed management program?	Biodiversity offset area had not been secured at the time of audit	NV	
8.	4.9	Has the fire regime identified in Section 4.9 been implemented?		NT	
9.	4.9	Managed burning will be excluded from all rehabilitation areas	No managed burning has been conducted. Burning will be conducted within the next three years.	NT	
10.	4.10	A compulsory component of the site induction process will be to highlight all conservation exclusion areas and the BOA in its entirety on a map of the site	Not currently in the induction.	N	01
11.	5.1	The core population and non-core occurrences of silver-leaved mountain gum within the BOA will be subject to a simple yet rigorous monitoring system. An initial monitoring event will occur following approval of the SLMGMP and be repeated biennially in spring thereafter for the life of the quarry	Biodiversity offset area had not been secured at the time of audit	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
12.	5.1	<p>The monitoring program will involve five key components:</p> <ol style="list-style-type: none"> 1. Mapping of the distribution and extent of the core and non-core populations using a differential GPS (every second year). 2. Population estimates utilising the method as described in Niche (2014) of 20 x 20 metre plot counts within the core areas and exact counts and differential GPS locating of the non-core occurrences (every second year). 3. An assessment of health including the following attributes at predefined and fixed locations (once a year): <ul style="list-style-type: none"> • A qualitative assessment of condition of plants, e.g., good/moderate/poor (including observations of senescence or disease), • Evidence of herbivory or other physical disturbance and an assessment of the severity of such where it occurs, • Evidence of recruitment (i.e. naturally occurring saplings), • Per cent foliage cover within core areas, at 10 locations along a 50 metre transect as per OEH (2014), • The percentage of fruiting plants within the BOA, and • Seed viability (i.e., from trials of collected seed, refer to Section 4.5). 4. An estimate of the percentage foliage cover of weed species in all structural layers should be undertaken within 20 x 20 metre plots. A list of problematic species would be recorded for management purposes. 5. An assessment of the condition of the conservation exclusion measures, i.e., condition of fencing, gates and signage (minimum fortnightly inspections by Quarry staff). 6. Photographs of specimen plants at each of the predefined locations as nominated in Point 2 above. 	Biodiversity offset area had not been secured at the time of audit	NT	
13.	5.2	A monitoring program to determine the impact of the proposed fire management regime on the population of silver-leaf mountain gum would be implemented in line with the timing of the proposed fire regime.		NT	

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Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
14.	5.3	Monitoring of replanted silver-leaved mountain gum within the Replanting Area and the Rehabilitation Areas will take place at three, six and 12 months post planting during the first year by the Hy-Tec Quarry Production Manager and in spring biennially thereafter and will mostly be based on visual inspection of survival rates and photographic evidence. Planted areas will be surveyed and number of deceased tubestock would be recorded. Should tubestock survival rates fall below 85%, remedial planting would be undertaken. Management of the planted areas would be reviewed if tubestock survival rates consistently do not meet performance targets. Monitoring would continue for the life of the approval	No planting has occurred since commencement of the current approval.	NT	
15.	5.4	<p>A performance evaluation program will be implemented to:</p> <ul style="list-style-type: none"> ensure the actions as prescribed in this management plan are monitored against known targets; outline adaptive and remedial actions should the targets not be met; and provide details of who will be responsible for implementing and reviewing the actions and monitoring program. <p>Table 6 aligns key performance criteria to the relevant management actions. The Quarry Production Manager, or his/her nominee will be responsible for the monitoring program and implementing the SLMGMP. The NSW Quarry Operations Manager will be responsible for coordinating review of the management plans</p>	Not implemented at this stage.	NT	

Audit Checklist –Transport Management Plan

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
6.2 Performance Indicators					
1.	7.1.1	All loading and despatch operations will be undertaken in accordance with the approved hours of operation <ul style="list-style-type: none"> 5.00am to 10.00pm Monday to Friday 5.00am to 3.00pm Saturday At no time on Sundays and public holidays 	Communicated at induction. Records sighted showed that loading and despatch was undertaken within the identified timeframes.	C	
2.	7.1.1	The staging, queuing or parking of vehicles adjacent to the Quarry access road will not be permitted outside of these hours.	Communicated at induction. Reported that the Quarry manager monitors parking prior to 5am.	C	
Laden Truck movement Monitoring					
3.	7.1.2	Laden trucks are monitored using the swipe card process	Swipe card process used for the site.	C	
4.	7.1.2	Daily movement of laden trucks despatched and tonnages transported from site will be reviewed by the Quarry Production Manager on a monthly basis to ensure compliance.	Records of daily movements of trucks available. CAS/SAP Quarries Weighbridge System used for monitoring truck movements to and from the site. Includes date and time, truck details, weight, time loaded, delivery address.	C	
5.	7.1.2	A summary of the quantities of quarry products transported from site and movements of trucks on an hourly, weekly, monthly and annual basis will be published on the Hy-Tec website on a bi-annual basis.	Records available. Published on the Hy-Tec website	C	
7.1.3 Transport Management Plan					
6.	7.1.3	As a condition of entry and loading of quarry products for delivery, each driver must read, understand and sign a code of conduct.	Signed code of conduct Records sighted.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
7.	7.1.3	Hy-Tec will undertake random vehicle and driver checks each month to ensure the requirements of the Code of Conduct are adhered to.	Verified for Truck RR636, 11/10/16. Minimum of 4 per week required to be completed. Records reviewed audits conducted in accordance with the schedule.	C	
8.	7.1.4	The driver vehicle checklist is used by quarry personnel to ensure that vehicles used to transport quarry products are serviceable and fit for purpose, and to ensure that vehicles are operated by individuals who possess appropriate qualifications and licences and are aware of fatigue management procedures.	Driver random vehicle inspections conducted to ensure compliance.	C	
9.	7.1.5	The operators of vehicles will ensure all laden vehicles have been cleaned of any quarry material or other materials that may fall on the road before leaving the site.	Communicated at induction. No quarry material had been deposited on the road on the day of audit. Inspection included in truck audits conducted weekly.	C	
7.2 Reactive Management Measures					
10.	7.2.1	Have any traffic complaints been received? If so, has it been investigated and corrective actions identified and implemented?	No complaints received.	NT	
11.	7.2.1	Has an exceedance of transport movement criteria occurred? If so, has the process outlines in Section 7.2.2.2 been followed?	No exceedances have been reported	NT	
12.	7.2.1	Has there been a breach of the driver's code of conduct? Was disciplinary action undertaken?	No breaches have been reported.	NT	
8 Transport and Traffic Monitoring					
13.	8.1	Are vehicles issued with a vehicle pass card?	CAS/SAP Quarries Weighbridge System used for monitoring truck movements to and from the site.	C	
14.	8.2	A minimum of 16 random inspections per month will be conducted to ensure that the Driver's Code of Conduct and Driver4 Check system is being adhered to.	4 inspections/ month conducted	C	
15.	8.3	Independent assessment of the intersection of the Great Western Highway and Jenolan Caves Road will commence in 2022.		NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
16.	8.3	Should a substantiated complaint or written request from RMS be received prior to the commencement of monitoring, an independent assessment of the level of service at the intersection will be commissioned.	No complaint or written request received.	NT	
10. INCIDENT MANAGEMENT, NOTIFICATION AND REPORTING					
17.	10.2	The Quarry Manager will immediately notify DPE and any other relevant agencies of any incident. A report will be provided to DPE and any other relevant agencies within 7 days of the incident.	No incidents have been reported	NT	
18.	10.2	A summary of all incidents, including dates of occurrence, corrective actions taken and success of the measures will be compiled and reported in the Annual Review to DPE and the Annual Return to the EPA.		NT	
11 Documentation					
19.	11	Records of all truck movements to and from the site (hourly, daily, weekly, monthly and annually) will be kept and periodically reviewed for adequacy and compliance. This information will be published on the on the Hy-Tec website on a bi-annual basis.	Recorded in the CAS/SAP Quarries Weighbridge System used for monitoring truck movements to and from the site.	C	
13. COMPETENCE TRAINING AND AWARENESS					
20.	13	All personnel and contractors working at the Quarry undergo an induction. This induction includes information on the management of traffic while working on site. Workers will sign a statement of attendance and records of this are kept in the administration office.	Induction records sighted. Form Appendix 14F Included Drivers Code of Conduct.	C	
21.	13	Monthly toolbox meetings are held to discuss whole-of-site production, management, safety and environmental issues. Matters relating to noise are raised during these meetings, when necessary.	Records of monthly toolbox meetings sighted	C	
14. PLAN REVIEW AND CONTINUAL IMPROVEMENT PROTOCOL					
22.	14	In accordance with Condition 5 of Schedule 5 of SSD-6084, the Plan will be internally reviewed within 3 months of submission of an Annual Review, an incident report resulting from a notifiable incident, each independent environmental audit and any modification to SSD-6084 to address feedback from these processes.	No applicable at time of audit.	NT	

Audit Checklist – Environmental Management Strategy

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
1.6 Hours of Operation					
1.	1.6	Are hours of operation restricted to: <ul style="list-style-type: none"> 6.00am to 10pm Mon-Fri 6.00am to 3.00pm Sat 	Work hours are Mon-Thru - 6am to 9pm, with a back shift working to 9pm. Saturday 6am to 3pm. Working hours are communicated at induction.	C	
2.	1.6	Is blasting restricted to: <ul style="list-style-type: none"> 10.00am to 3.00pm Mon-Fri 	Blasting conducted between 10.00 am to 3.00pm. Records sighted showed that all blasts had occurred between 10.00am and 3.00pm.	C	
3.	1.6	Is loading restricted to: <ul style="list-style-type: none"> 5.00am to 10pm Mon-Fri 5.00am to 3.00pm Sat 	All truck loading managed by the CAS weighbridge system does not allow tare in of trucks before 5am.	C	
4.	1.6	Where work has been required to be undertaken outside of approved hours (e.g. at the request of police or other authorities, or emergency response) has the Secretary of the Department of Planning and Environment and affected residents been informed?		NT	
3.2 Implementation					
5.	3.2	How are personnel informed of the environmental management objectives and the specifics of each management strategy (e.g. protection of buffer areas, impact minimisation measures, reporting requirements for incidents, complaints)?	Toolbox talk conducted 16/12/16 on the new development consent and management plans. Hard and electronic copies of the Plans are provided and available on site.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
3.3 Staff Training and Induction					
6.	3.3	Has a training package detailing the importance of observing all environmental safeguards and outlining the potential environmental impacts been implemented for personnel on site?	A definitive training package had not been prepared. Evidence was sighted that some training had been provided (e.g. Aboriginal artefacts, pollution incident response). Training matrix available – doesn't include environmental management Environmental response included	N	01
7.	3.3	Has the training been conducted at: <ul style="list-style-type: none"> • Commencement of employment; • At least every 24 months thereafter; and • When there are changes to operational procedures 	No records to verify training in environmental responsibilities has been undertaken.	N	01
3.4 Environmental Performance Monitoring					
Is the following monitoring completed:					
8.	3.4	Visual inspections of stormwater, sediment and erosion control prior to, and following wet season and/or major rainfall events(>25mm in 24hours)	Dams inspected on a daily basis see photo. Reported that this inspection includes sediment and erosion control. Records do not demonstrate inspections of sediment and erosion control prior to high rainfall events. Bimonthly HSE inspections by Management team representatives.	N	02

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
9.	3.4	Visual inspections of surface water quality prior to, and following wet season and/or major rainfall events(>25mm in 24hours)	No specific records prior to heavy rainfall events. Records of monitoring show no environmental impacts have occurred as a result of high rainfall events (no uncontrolled discharge of water had occurred in the previous 2 years). Following rainfall – 16/03/17, 6/06/16,	N	02
10.	3.4	Confirmation of effective operation of sediment basins/ water treatment systems prior to any release event.	Records to verify water quality acceptable prior to release available.	C	
11.	3.4	Confirmation that receiving waters have not been impacted following release of water from the site, a complaint or on request from EPA	Upstream and downstream monitoring conducted	C	
12.	3.4	Confirmation of the adequacy of dust control measures through visual monitoring, in response to a complaint or on request from EPA	Visual monitoring reported to be undertaken. No complaints received or request from EPA	C	
13.	3.4	Confirmation of the adequacy of noise control measures through subjective surveillance, in response to a complaint or on request from EPA	No complaints received or request from EPA	C	
14.	3.4	Monitoring of blasting to confirm the adequacy of controls and compliance with approvals and licences, in response to a complaint or on request from EPA	Blast monitoring records available. No exceedences of blast criteria have been recorded.	C	
15.	3.4	Annual assessment of progress and compliance with relevant rehabilitation plans and rehabilitation outcomes	Annual review, Section 6 provides an assessment of rehabilitation for the site.	C	
16.	3.4	Post rehabilitation monitoring: <ul style="list-style-type: none"> One month after planting/ seeding Three months after planting/ seeding six months after planting/ seeding Twelve months after planting/ seeding 	Annual review identified 1.45 Ha under rehabilitation for the reporting period. Monitoring record showed planting in November 2016, monitoring conducted in December 2016, and February 2017. Reported that monitoring discontinued as plants failed to establish	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
17.	3.4	Prevent the spread of weeds through site by: <ul style="list-style-type: none"> Visual weed inspections of machinery entering site; and Quarterly weed inspections of the site. 	HTA-S-S-FT-050 Mobile Plant and Equipment Access to Site Checklist available. Inspections of plant reported to be conducted, but no records to verify that inspections are conducted No records of quarterly inspections available	N	03
18.	3.4	Has a consultant undertaken annual Flora and Fauna monitoring?	Onsite Environmental (included in annual review)	C	
19.	3.4	Is monthly visual surveillance of areas around refuelling locations and chemical stores completed?	Bimonthly inspections include chemicals stores. Daily inspections include assessment of storage areas for spillages/ leaks.	C	
20.	3.4	Are safety data sheets maintained for the site?	SDS available. Noted that some SDS were greater than 5 years old.	A	14
21.	3.4	Are spill response kits inspected quarterly or following use?	Spill kits available. No records of inspection of spill kits available.	A	15
22.	3.4	Are quarterly reviews conducted to ensure maintenance and contract maintenance records are maintained?	Computerised system – Gearbox alerts electronically when maintenance is required. Reviewed weekly at management meetings. Included in bimonthly inspections.	C	
23.	3.4	Are six monthly inspections conducted to confirm site signage is maintained and legible?	No six monthly inspections conducted. However, inspection of site signage is included in bimonthly inspections.	C	
24.	3.4	Is periodic surveillance of the site entrance conducted to confirm the access is properly maintained and suitable for use?	No six monthly inspections conducted. However, inspection of site access is included in bimonthly inspections.	C	
25.	3.4	Is periodic surveillance conducted to confirm visual exposure is controlled and minimised to the extent feasible?	Visual inspections undertaken by the Quarry Manager and included in the Annual Review.	C	


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Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
26.	3.4	Are visual observations undertaken during initial ground disturbance work to identify cultural materials?	Pre-clearance survey undertaken by Consultant Onsite Environmental. E.g. Pre-Clearance Survey at Austen Quarry Stage 2 development – Spoil Dump Upper Slopes, 17/04/17. Training provided to workers on site to identify cultural materials	C	
27.	3.4	Is confirmation of compliance with approvals and licences for demarcation of extraction limits conducted quarterly and prior to each stage of extraction?	No records available. However, no extraction has been undertaken near the extraction limits. Extraction limits have been pegged.	NT	
28.	3.4	Is the disturbance related to development works limited to design limits?	Disturbance has been restricted to the design.	C	
3.8 Complaints and Incidents					
29.	3.8	Are incident and complaints recorded in the complaint/ incident log book and electronically?	Complaints Register available. No incidents or complaints have been received.	NT	
30.	3.8.1	Following a pollution complaint was action taken within 2 days to determine the source of the pollution complaint?	No incidents or complaints have been received.	NT	
31.	3.8.1	Was the complaint recorded detailing: <ul style="list-style-type: none"> The date of the complaint The method by which the complaint was made; Any personal details of the complainant which were provided, or if no details were provided, a note to that effect; The nature of the complaint; The action taken, including any follow-up action with the complainant, and If no action was taken, the reasons why no action was taken? 	Complaint register maintained in Cintillate. Includes provision for recoding of required information. No complaints recorded.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
32.	3.8.1	Have complaints been investigated. Did the investigation include: <ul style="list-style-type: none"> • Activities being carried out at the time of the complaint; • Whether, at the time of the complaint, normal day-to-day activities were being conducted; • Whether activities or equipment on site were the potential source of the complaint; • What actions may be carried out to resolve the complaint and/ or minimise the likelihood of further complaints? (Note: Not mandatory to include all actions)	No complaints have been received.	NT	
33.	3.8.2	Have any EPA reportable incidents occurred? Were they reported to the EPA as soon as becoming aware of the event? Was written notice provided within seven days using the Initial Notification Form?	No environmental incidents have occurred	NT	
34.	3.8.2	Is a complaints line maintained during operational hours?	Complaints line maintained. Number displayed on front gate	C	
35.	3.8.3	Has a summary of the results of any relevant environmental monitoring performed in relation to an emergency or incident been supplied to the EPA within 6 weeks of the incident?	No environmental incidents have occurred	NT	
36.	3.8.3	Do monitoring records include: <ul style="list-style-type: none"> • Date the sample was taken; • Time the sample was collected; • The point at which the sample was taken; • The name of the person collecting the sample? 	No environmental incidents have occurred	NT	
6.1 Water Management					
37.	6.1.4	Has water quality monitoring been conducted at EPL points 1,8,9,10,11 when discharging? pH, TSS, Oil and Grease (visual)	Monitoring records available. Records show monitoring conducted when discharge has occurred.	C	
38.	6.1.4	Has water quality monitoring been conducted at EPL points 2 & 3 monthly or when water discharge is occurring at Point 1?	Records of monitoring available show monthly monitoring of water quality at EPL points 2 & 3.	C	
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Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
39.	6.1.5	Has run-off from disturbed areas been diverted around the site using contour and diversion drains, perimeter bunds and pipe culverts?	Suitable erosion and sediment controls had been implemented for the site	C	
40.	6.1.5	Has water from disturbed areas collected in sediment basins for treatment and discharge?	Sediment basins have been constructed for the collection of run-off water.	C	
41.	6.1.6	Does water released comply with the contaminant release limits in Table 19 (TSS <30mg/L, pH 6.5-8.5, Oil and Grease <10mg/L)?	Sampling results show water released complied with the water quality criteria.	C	
42.	6.1.6	Are sediment basins maintained to ensure they remain effective in managing stormwater run-off?	Sediment basins cleaned as part of the water management improvement program. All items identified as completed 10/10/17	C	
43.	6.1.7	Is the effectiveness of the water management strategies reviewed at least every 3 years?		NT	
44.	6.1.8	Are water monitoring results included in the EPA annual return and reported in accordance with Section 6 Reporting conditions?	Review of EPA annual return for 2016-2017 showed water quality monitoring results were included.	C	
45.	6.1.9	Is annual and project groundwater extracted reported to the NSW Office of Water annually?	Not yet applicable. Water Management Plan has only recently been approved. Annual review reported that no groundwater had been extracted.	C	
46.	6.1.9	Have any unforeseen impacts on ground water been identified? If so, has a preliminary review and investigation by an appropriately qualified expert been undertaken?	No unforeseen impacts on ground water been identified	NT	
47.	6.1.9	Have actions identified from the investigation been implemented?		NT	
48.	6.1.10	Has an investigation been undertaken where water discharged did not meet the Pollution Control Approval conditions?		NT	
49.	6.1.10	Where contaminant release limits are exceeded at licenced discharge points, have the corrective actions in Table 20 been implemented?	No instances where contaminant release limits were exceeded at licenced discharge points.	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
50.	6.2.6	Water Quality will be monitored in accordance with the Release Water Monitoring Program which has been prepared for the existing and proposed operations at the Austen Quarry as part of the SWMDA	Water quality monitoring has been conducted in accordance with the Release Water Monitoring Program	C	
51.	6.3	Has a groundwater extraction licence been obtained?	WAL 37423	C	
52.	6.3.6	Has a groundwater monitoring program been developed and implemented?	Groundwater monitoring program had not been implemented. The Water Management Plan had been approved 16/10/17.	NT	
53.	6.3.7	Is the effectiveness of the groundwater management plan reviewed at least every 3 years?		NT	
54.	6.3.8	Is monitoring data included in the annual review?	No groundwater monitoring data at this stage of the works.	NT	
55.	6.4.3	Are hydrocarbons and chemicals appropriately stored in designated and bunded areas?	Hydrocarbons and chemicals were stored in a bunded shed.	C	
56.	6.4.3	Are designated areas used for refuelling?	Refuelling areas adjacent to the hydrocarbon shed	C	
57.	6.4.3	Are appropriate spill response equipment and spill response protocols provided?	Spill response kits were noted to be provided adjacent to chemical storage areas	C	
58.	6.4.3	Are fire extinguishers provided in plant and at refuelling areas?	Fire extinguishers available. Inspected July 2017	C	
59.	6.4.3	Is a water cart available to assist in fire fighting?	Water cart was in use on site.	C	
60.	6.4.3	Are accesses maintained to ensure safe passage and access to water contained in dams in the event of a bushfire?	Accesses were maintained	C	
61.	6.4.5	Have all new employees been inducted/ trained in the use and handling of chemicals?	Training records do not show that training in the use and handling of chemicals had been conducted.	N	01

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
62.	6.4.5	Is cleaning and servicing of equipment conducted in designated areas?	Workshop provided for servicing of equipment. Reported that cleaning was undertaken in an area adjacent to the workshop, which drained to SB1.	C	
63.	6.4.5	Are spill kits available for service vehicles, re-fuelling vehicles and vehicles used for transporting hydrocarbons and chemicals?	Spill response kits were noted to be provided adjacent to chemical storage areas and refuelling areas 	C	
64.	6.4.5	Have any spills occurred? Were the cleaned up promptly?	No spills have occurred	NT	
65.	6.4.5	Were spills treated an environmental incidents, reported and investigated?		NT	
66.	6.4.5	Are chemical and hydrocarbon stores bunded to contain at least 110% of the capacity of the largest tank volume stored?	Bunded shed provided for chemical and hydrocarbon stores	C	
67.	6.4.5	Are bund wall impervious and at least 250mm high?	Impervious walls provided. Walls were not at least 250mm high, although it was noted that the bund wall was installed prior to the implementation of the current EMS (reported to have been installed approximately 5 years previous). No new bunding had been installed.	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
68.	6.4.5	Do all bunds have a minimum capacity of 400l? Hose couplings terminate within the bund wall?	Bundling provided was appropriate for the quantities stored. Detailed calculation not undertaken.	C	
69.	6.4.5	Are bunded areas roofed?	Bunded storage shed provided	C	
70.	6.4.5	Are bunded areas maintained to ensure spills are quickly cleaned up and stormwater captured within the bund removed as soon as practicable?	Bunded area covered to prevent stormwater ingress. Small volume of diesel in sump under diesel tank	A	16
71.	6.4.5	Are storage facilities monitored and maintained?	Storage facilities included in the bimonthly inspections. Small volume of diesel in sump under diesel tank	A	16
72.	6.4.5	Are SDS available for chemicals and hydrocarbons?	SDS available. Noted that some SDS were greater than 5 years old.	A	14
73.	6.4.5	Has hydrocarbon contaminated material appropriately disposed of to a licenced facility using a licenced contractor?	Records of collection of hydrocarbons by a licenced waste transporter were available.	C	
74.	6.4.5	Are records of trackable waste materials maintained?	Records of waste oil collections available. Reported that no trackable waste had been collected from the site.	NT	
75.	6.4.7	Are the chemical and hydrocarbon management strategies reviewed at least every 3 years?		NT	
6.5 Dust Management					
76.	6.5.6	Is dust deposition monitoring conducted at air monitoring points 4, 5 &6?	Records of dust deposition monitoring were available to demonstrate that monitoring was conducted on a monthly basis.	C	
77.	6.5.6	Is weather monitoring data collected on a continuous basis at monitoring location 12?	Weather monitoring data was continuously monitored using an on-site weather station.	C	
78.	6.5.7	Are air quality management strategies reviewed at least every 3 years?		NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
79.	6.5.8	Have any complaints/ incidents occurred related to air quality? Have they been addressed in accordance with the incident/ complaints management procedure?	No complaints have been received.	NT	
80.	6.5.8	What dust suppression equipment is available on site? Is it used and maintained?	Water cart was used on site to minimise dust emissions.	NT	
81.	6.5.9	Have corrective actions been implemented to address the finding from any incident/ complaint investigation?	No complaints have been received. No incidents have occurred.	NT	
6.6 Noise Management					
82.	6.6.5	What noise mitigation measures have been implemented? <ul style="list-style-type: none"> How are they communicated to workers on site? Utilisation of natural topography; Positioning process plant away from sensitive receivers; Positioning stockpiles and ancillary equipment so as to prevent undue noise impacts on surrounding receivers; Positioning the crushing plant and noisy equipment to utilise natural or man made topography; Enclosing generators, engines, pumps; Operating and maintaining modern, well maintained trucks fitted with high efficiency mufflers; Shutting down equipment when not in use; Avoiding unnecessary revving of engines; Restricting rock drilling at exposed locations to the day period (6am to 6pm). 	Noise mitigation measures have been identified and implemented. No exceedences of noise criteria or complaints have occurred.	C	
83.	6.6.6	Have any agreements been made with landowners to allow the noise criteria to be exceeded? Have these agreements been notified to DPE?	No agreements have been entered into. No complaints or exceedences of noise criteria have been recorded.	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
84.	6.6.6	Has any noise monitoring been undertaken?	Noise monitoring had been conducted in September 2016 and September 2017. Noted that noise monitoring was required to be conducted on a 6 monthly basis.	A	03
85.	6.6.7	Are the noise management strategies reviewed at least every 3 years?	Due 2019	NT	
86.	6.6.10	Have any complaints/ incidents occurred related noise? Have they been addressed in accordance with the incident/ complaints management procedure?	No complaints or exceedences of noise criteria have been recorded.	NT	
87.	6.6.10	Have corrective actions been implemented to address the finding from any incident/ complaint investigation?	No complaints or exceedences of noise criteria have been recorded.	NT	
6.6 Blast Management					
88.	6.7.4	Has blast monitoring been undertaken? Does blast monitoring show that blasting has not exceeded the airblast overpressure limits or ground vibration limits for the project?	Records of blast monitoring were available. No exceedences of airblast overpressure limits or ground vibration limits have been recorded.	C	
89.	6.7.4	Have any agreements been made with landowners to allow the blast criteria to be exceeded? Have these agreements been notified to DPE?	No agreements have been made.	NT	
90.	6.7.4	Is only one planned blast per week conducted?	Records showed that blasting had occurred at a maximum of 1/week, generally 1/fortnight.	C	
91.	6.7.6	Have any complaints/ incidents occurred related to blast vibration or overpressure? Have they been addressed in accordance with the incident/ complaints management procedure?	No complaints or incidents have been recorded.	NT	
92.	6.7.6	Have corrective actions been implemented to address the finding from any incident/ complaint investigation?	No complaints or incidents have been recorded.	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
93.	6.7.6	Is the following recorded for blasts: <ul style="list-style-type: none"> • Maximum instantaneous charge of blast; • Location of the blast in the quarry (X,Y,Z coordinates) • Distance from the blast to the monitoring point, location of the monitoring point and date and time of recording/ measurement? • Overpressure level (dB linear peak); • Peak particle velocity and frequency; • Effects due to extraneous factors including estimated wind speed and direction; • Measurement instrumentation used; and • Name of person performing the measurement. 	Records of blast monitoring were available.	C	
94.	6.7.7	Are the blast management strategies reviewed at least every 3 years?		NT	
6.8 Waste Management					
95.	6.8.4	Is a record of all trackable waste maintained? (Waste register)	Waste records for oil waste maintained including register. No trackable waste removed form site.	NT	
96.	6.8.4	Is the receipt of recycled concrete aggregate <5000tonnes per year?	No waste received on site since the commencement of work under the current consent.	NT	
97.	6.8.4	Has waste been received under a resource recovery exemption? Have the conditions of the exemption been complied with?	No waste received on site since the commencement of work under the current consent.	NT	
98.	6.8.5	Are appropriate waste storage facilities provided and maintained on site?	Waste storage facilities had been provided.	C	
99.	6.8.5	Is waste segregated on-site for subsequent recycling?	Waste oils were stored and collected by Transpacific for recycling.	C	
100.	6.7.7	Are the waste management strategies reviewed at least every 3 years?		NT	

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Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
101.	6.8.9	Have any complaints/ incidents occurred related to waste? Have they been addressed in accordance with the incident/ complaints management procedure?	No complaints or incidents have been recorded.	NT	
102.	6.8.10	Have corrective actions been implemented to address the finding from any incident/ complaint investigation?	No complaints or incidents have been recorded.	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
6.9 Flora and Fauna Management					
103.	6.9.5	<p>Are the following management practices implemented:</p> <ul style="list-style-type: none"> • primary crushing station within the extraction footprint • Conveyor between the primary crushing and secondary processing area; • 10m buffer and exclusion zone around the proposed area of disturbance; • Local species used in the revegetation works; • Feral animals excluded; • Barriers and warning signs provided to discourage illegal recreation vehicles within the rehabilitated areas; • Fire control plans are in place; • Natural regeneration of native plant species encouraged; • Weed And feral pest control carried out in accordance with standards adopted by local landholders; • Ensure employees and contractors are aware of the habitat value of the site; • Implement dust controls; • Ensure persons entering the site are made aware that no native vegetation is to be disturbed without approval and supervision of the Quarry Manager; • Fighting of fires banned; • Implement weed management procedures and seek advice from NSW DPE on suitable weedicides; • Exclude vehicles and equipment from revegetated areas except for fire, pest and weed control, fence repairs, and general land care practices; • Clean all vehicles entering the revegetation areas to ensure they are free of weeds; • Speed limits shall be controlled within the boundary with signage erected to make drivers aware of the potential presence of native fauna. 	Management practices have generally been implemented.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
104.	6.9.6	<p>Are the following practices implemented for quarry areas:</p> <ul style="list-style-type: none"> • Demarcate the proposed areas of quarrying with durable markers • Demarcate the area to be cleared for each clearing phase; • Design and install temporary erosion and sediment control measures; • Ensure timber and forest products are salvaged where practicable; • Inspection by a suitably qualified person prior to areas being cleared to identify habitat trees, animal species and protected species prior to clearing; • Provide an animal spotter during clearing; • Carry out vegetation clearing in accordance with any instructions given by a person trained and skilled in the capture and release of fauna; • Clear only to the extent necessary at any time to provide for efficient and effective; • Windrow cleared vegetation along contour on the lower elevation of the cleared area and ensure vegetation is not pushed into gullies or creeks; • Dispose of vegetation in accordance with the order of preference identified; • Keeping cleared area free of invasive weeds; • Undertake progressive rehabilitation where practicable; 	<p>Onsite Environmental on site during clearing to direct the clearing process.</p> <p>Demarcation of area to be cleared was sighted on the day of audit.</p>	C	
105.	6.9.6	Are flora and fauna reports undertaken for the site on an annual basis?	Onsite Environmental had provided an Ecological Monitoring report (November 2016) which was included in the Annual Review.	C	
106.	6.9.6	Is a bi-annual weed inspection and herbicide treatment program undertaken?	<p>Inspected by Onsite Environmental annually.</p> <p>Weed inspections were not conducted on a bi-annual basis.</p> <p>Flyover by Upper Macquarie County Council to treat Serrated Tussock.</p>	A	17

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
107.	6.9.6	Are animal pest inspections and a control program implemented?	Annual flora and fauna report by Onsite Environmental. Note that the report recommended a control program be implemented for fox, rabbit and cat control. Records sighted showing communication with landowner on pest management. It was reported that requests for pest control programs were passed on to the property owner.	C	
108.	6.9.6	Are animal spotters provided for clearing activities?	Onsite Environmental were engaged to oversee clearing activities, including animal spotting	C	
109.	6.9.7	Are the Flora and Fauna management strategies reviewed at least every 3 years?		NT	
110.	6.9.8	Has the Quarry Manager required a wildlife spotter and catcher to report on animals sighted during vegetation clearing, animals caught and relocated during clearing, and maintained records?	Reporting on animal sightings was undertaken by Onsite Environmental. Records showed no relocations had occurred.	C	
111.	6.9.8	Are records of on-site weed control works including the type and quantity of weedicide used kept?	One instance where aerial spraying for Serrated Tussock was undertaken. Records available of who undertook aerial spraying. chemical sprayed was Taskforce at a rate of 70 Litres per hectare (mixed with water)	C	
112.	6.9.8	Are vegetation monitoring results and fauna and fauna surveys recorded and available for inspection?	Reports from Onsite Environmental were available.	C	
113.	6.9.8	Are monitoring results included in the annual review?	Included in Appendix H: Terrestrial Ecology Monitoring Report and Pre-clearing Surveys	C	
114.	6.9.10	Have corrective actions been implemented to address the finding from any incident investigation?	No incidents have occurred.	NT	
115.	6.9.10	Has the quarry manager arranged for destruction of identified weeds prior to flowering and seed production?	Aerial spraying for Serrated Tussock was undertaken in November.	C	

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Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
116.	6.9.10	Has the quarry manager arranged for feral animals, foxes and domestic grazing animals to be removed from the site?	Reported that Quarry manager discusses with the property owner to arrange for pest control. Records sighted showing communication with landowner.	C	
117.	6.9.10	Has fauna that does not leave the site after tree felling be removed by an experienced wildlife spotter and catcher and relocated to nearby bushland	Records show that no relocation of fauna was required to be undertaken.	NT	
118.	6.9.10	Has injured/ abandoned fauna been take to nominated carers?	Records show that no injured/ abandoned fauna were encountered.	NT	
6.10 Weed Management					
119.	6.10.5	Have weeds on site been identified, prioritised and weed management options determined?	Weeds had been identified in the Terrestrial Ecology Monitoring Report, with a recommendation for spraying of the Serrated Tussock. Aerial spraying of Serrated Tussock had occurred.	C	
120.	6.10.5	Have employees been trained in the identification of weeds?	No records to demonstrate that workers had been trained in the identification of weeds on site.	N	04
121.	6.10.5	How does the company ensure equipment entering and leaving the site is free from soil and vegetation?	Mobile Plant and Equipment Access to Site Checklist available – Form HTA-S-S-FT-050. Includes checklist item for weed and plant in section on exit from site, not on entry. No records of completed checklists sighted. Process has been implemented to ensure equipment entering the site is free from soil and vegetation	N	03
122.	6.10.5	Have visual surveys been conducted prior to topsoil stripping operations to reduce the risk of topsoil stockpile contamination with seed and vegetative weed material?	Pre-clearance surveys conducted by Onsite Environmental.	C	
123.	6.10.5	Have topsoil stockpiles been regularly monitored and managed for weed infestation?	No topsoil stockpile were present on site at the time of audit.	NT	
124.	6.10.6	Have regular inspections of all access routes on site been conducted to ensure routes are weed free or in a weed reduced state?	No records of inspections of access routes were available.	N	03

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
125.	6.10.6	Have four inspections per year of the quarry been conducted to identify: <ul style="list-style-type: none"> • The effectiveness of weed control measures implemented and whether an amendment is required; • New areas where weed control is required; • Infestations of new weed species; and • Areas where rehabilitation should be carried out? 	Annual flora survey included in the Annual Ecological report. No other weed inspections have been recorded.	N	03
126.	6.10.7	Has the list of noxious weeds been reviewed annually to ensure the correct procedures are applied for each weed species?	Included in the annual Terrestrial Ecology Monitoring Report	C	
127.	6.10.7	Has the effectiveness of the weed management strategies been reviewed at least every 3 years?	The Terrestrial Ecology Monitoring Report includes review of the effectiveness of weed management for the site.	C	
128.	6.10.8	Is weed monitoring included in the annual review?	Included in the annual Terrestrial Ecology Monitoring Report	C	
129.	6.10.10	If a weed infestation has occurred as a result of onsite activities, has an investigation been initiated and actions taken to resolve the matter to the extent practicable?	Terrestrial Ecology Monitoring Report did not identify any areas of infestation as a result of onsite activities. Praying for serrated tussock recommended. Spraying completed	C	
6.11 Landscape and Rehabilitation Management					
130.	6.11.5	Has the site been progressively rehabilitated as soon as reasonably practicable following disturbance?	Limited terminal operational areas available for rehabilitation. No new rehabilitation had occurred since work under the existing development approval commenced.	C	
131.	6.11.5	Has the total area exposed for dust generation been minimised?		C	
132.	6.11.5	Have interim stabilisation measures been implemented where practicable?		C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
133.	6.11.5	Has the EMSP and Landscape and Rehabilitation Plan been submitted to the DPE 3 months prior to the commencement of quarrying operations under this consent?	Landscape and Rehabilitation Plan submitted to the DPE 15/06/16. Quarrying operations commenced under the current consent on 16/09/16.	C	
134.	6.11.5	Has a Conservation and Rehabilitation Bond been lodged with the DPE within 6 months of the approval?	Letter from DPE 25/07/17 requiring the Rehabilitation bond to be lodged no later than the 22/08/2017. Bank guarantee showed Bond lodged 17/08/17. Acknowledgement of receipt by DPE provided 23/08/17.	C	
135.	6.11.5	Has the sum of the Conservation and Rehabilitation Bond been verified by a quantity surveyor?	Calculated by Nick Warren of RW Corkery, who was approved as a suitably qualified and experienced person to undertake the rehabilitation cost calculation by DPE 20/02/17. Approval of the rehabilitation cost calculation provided by DPE on 25/07/17.	C	
136.	6.11.5	Has the sum of the Conservation and Rehabilitation Bond been reviewed and revised following each independent environmental audit?		NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
137.	6.11.5	<p>Have the following measures been implemented to ensure the landform is table and married into the surrounding landscape:</p> <ul style="list-style-type: none"> • Use earthmoving equipment to progressively shape the workings to the desired profiles; • Flattening the gradients of selected batters to a stable angle of repose or reaching the terminal limits of extraction; • Rounding or marrying the contours into the natural ground surface; • Scaling down loose rock; • Topsoiling and stabilisation of contours; • Provide access to terminal working to allow maintenance of rehabilitation works; • Design landform and drainage to control erosion for the particular hydrological regime; • Where necessary planting media should be spread and shaped over selected rock benches and topsoiled to assist in retaining precipitation and controlling sediment movement. 	<p>Limited rehabilitation conducted at the time of audit. Rehabilitation completed had generally complied with requirements.</p>	C	
138.	6.11.5	Have erosion and sediment controls been designed and implemented?	During the site inspection, it was noted that suitable erosion and sediment controls had been implemented to capture water from the disturbed areas.	C	
139.	6.11.5	Are employees made aware of restricted areas?	No specific training provided. Areas have not been barricaded.	N	01
140.	6.11.5	Is suitable barricading provided around areas undergoing rehabilitation?	Barricading not provided.	N	05
141.	6.11.5	Are existing roads used where practicable?	No evidence of driving outside of existing roads was sighted during the site inspection.	C	
142.	6.11.5	Have markers, fencing or flagging been provided around vegetation to be protected or areas undergoing rehabilitation?	Markers, fencing or flagging had not been provided around vegetation to be protected or areas undergoing rehabilitation.	N	05

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
143.	6.11.5	Prior to the clearing of vegetation, a Vegetation Clearing Plan may be prepared.	No specific Vegetation Clearing Plan prepared. Clearing conducted under the supervision of a consultant environmental specialist.	C	
144.	6.11.5	Have the following measures been implemented for topsoil stripping: <ul style="list-style-type: none"> • Topsoil should not be stripped when too wet or too dry; • Stripped topsoil should be used directly for rehabilitation or stockpiled for future use; • Topsoil stockpiles should be <2m, shaped (batters <2:1) and revegetated; • Stockpiles should be maintained in a free draining condition to avoid long term saturation; • Stormwater should be diverted away from the area to be stripped; • Topsoil stripping should be limited to the areas necessary. 	No topsoil stripped at the time of audit. Area had vegetation removed prior to stripping.	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
145.		<p>Have the following measures been implemented for topsoil spreading:</p> <ul style="list-style-type: none"> • Areas reshaped prior to topsoil spreading; • Equipment used should be scheduled to avoid compaction; • The subsoil should be ripped to break up any compacted areas to allow keying of the two soils; • On slopes <3:1 lightly compacted subsoils should be ripped with a tined implement ensuring all ripping operations occur along the natural contours; • Topsoil should be removed from stockpiles in a manner that prevents equipment from traversing over stockpiles; • Topsoil should be spread in a reverse sequence to the direction of removal where possible so that the original topsoil layer is returned to the surface to encourage re-establishment of the preserved seed content? • All exposed subsoils should be covered, and topsoil spread over selected batters, contours, bunds and disturbed areas to a minimum depth of 100mm (Slope 3:1) or 50mm (flatter areas) • Soil spreading should be immediately followed by seeding, planting or alternative revegetation methods; • Mulch may be spread over the topsoil to minimise soil erosion. 	No topsoil had been respread.	NT	
146.	6.11.5	If erosion occurs on treated surfaces, the Area should be respread and revegetated appropriately.	No treated areas have required respraying and revegetation.	NT	
147.	6.11.5	<p>Have species been selected on:</p> <ul style="list-style-type: none"> • native or naturalised pasture grasses; • Plant species based on site survey of remnant vegetation or consideration of pre-cleared mapped regional ecosystems and/or surrounding regional ecosystems 	Species have been selected in consultation with the local Landcare group.	C	
148.	6.11.5	Has revegetation been carried out just prior to good rainfall or following soaking rain, and the areas been watered following revegetation?	No recent revegetation had occurred.	NT	
149.	6.11.5	Have controls been implemented to prevent predation by animals such as hares, cattle, etc.?	Trees and shrubs which had been planted in revegetated areas were protected.	C	


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Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
150.	6.11.5	Has Landcare/ local community groups been involved or assisted in the rehabilitation?	Reported that the local Landcare group were consulted and assisted in the growth of tube stock.	C	
151.	6.11.6	Have regular inspections of rehabilitated areas been conducted?	Monitoring record showed planting in November 2016, monitoring conducted in December 2016, and February 2017. Reported that monitoring discontinued as plants failed to establish	C	
152.	6.11.6	Has maintenance work been carried out in accordance with the requirements of Table 6 – Maintenance Schedule – Vegetation Works?	Areas where revegetation had occurred were noted to be generally well maintained.	C	
153.	6.11.7	Has the effectiveness of the rehabilitation and land management strategies been reviewed at least every 3 years?		NT	
154.	6.11.10	Has corrective action been implemented where rehabilitation works have not met performance targets?		NT	
6.12 Bushfire Management					
155.	6.12.5	Have local landowners and fire services been consulted on fire control management on-site and with district/area fire control plans?	Fire prevention and protection management plan available. Quarry Manager has been in regular contact with the local RFS. Quarry supervisor is a member of the RFS.	C	
156.	6.12.5	Is a 20m buffer area maintained around the quarry operations to manage fuel loads?	Buffer zone provided around the quarry operations.	C	
157.	6.12.5	Are staff made aware of evacuation procedures and the location and use of fire fighting equipment?	Bushfire Emergency Evacuation Plan available. Record of training included in the Training Register	C	
158.	6.12.5	Are fire emergency contact details maintained?	Details displayed	C	
159.	6.12.5	Is fire fighting equipment regularly inspected and maintained?	Inspection tags attached to fire-fighting equipment showed inspection completed July 2017.	C	

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Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
160.	6.12.5	Is ready access to water storage provided in case of fire?	Access to dams readily available.	C	
161.	6.12.5	Is there a process for controlling hot works, such as welding? Are controlled areas provided for welding and other hot works?	Reported that hot works are conducted within the workshop.	C	
162.	6.12.6	Has an annual visual assessment been undertaken to assess the adequacy of bushfire control measures?	No specific assessment conducted (recorded)	A	18
163.	6.12.7	Has the effectiveness of the fire management strategies been reviewed at least every 3 years?		NT	
6.13 Cultural Heritage					
164.	6.13.5	Are reporting processes in place for the discovery and management of aboriginal artefacts prior to work commencing?	Aboriginal Cultural Heritage training provided by Quarry Manager	C	
165.	6.13.5	Have all personnel and subcontractors undertaken cultural heritage induction prior to commencing work?	Records of training in cultural heritage sighted.	C	
166.	6.13.5	Are contact details of relevant agencies / groups available in case of a find or suspected discovery?	Not available on site. Contact details of local aboriginal group available with National planning and development manager	C	
167.	6.13.5	Has a find or suspected discovery (aboriginal or European) occurred? If so, has the procedure in 6/13/5 been followed?	No cultural heritage items/ sites identified on site.	NT	
168.	6.13.6	Is ongoing surveillance of the quarry development areas conducted to ensure that cultural heritage items/ sites are not damaged/ disturbed?	No cultural heritage items/ sites identified on site.	NT	
169.	6.13.7	Has the effectiveness of the cultural heritage management strategies been reviewed at least every 3 years?		NT	
6.14 Community Consultation					
170.	6.14.5	Where a complaint has been investigated, has the consultant undertaking the investigation provided an objective summary to the complainant?	No complaints had been received.	NT	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
171.	6.14.6	Are records of property owners and contact details within one kilometre of the quarry maintained and updated as required?	Phone details in Quarry Managers phone. Reported that the site communicates with Hartley District Progress Association.	C	
172.	6.14.6	Has the quarry manage, where possible, personally investigated issues raised by complainants?	No complaints had been received.	NT	
173.	6.14.7	Has the effectiveness of the community consultation management strategies been reviewed at least every 3 years?		NT	
174.	6.14.8	Is a register of all environmental complaints maintained?	Register available in Cintillate. The register requires the recording of all information required by EPL 12323.	C	
175.	6.14.9	Are complaints investigated and actions taken to resolve the matter?	No complaints had been received.	NT	
6.15 Visual Impact Management					
176.	6.15.5	Has the primary crusher been retained within the stage 1 extraction area?	Primary crusher has not been moved.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
177.	6.15.5	Has the visual screen on the northern ridge been retained?	Visual screen on the northern ridge has been retained 	C	
178.	6.15.5	Has further extension of the secondary processing area and Yorkeys Creek stockpiling area been restricted?	Secondary processing area and Yorkeys Creek stockpiling area have not been extended.	C	
179.	6.15.5	Has a trial of short term visual mitigation measures for the Yorkeys Creek stockpiling area been completed prior to November 2016?	Height of the stockpile has been reduced by ~15m and trees planted on the northern side of the stockpile. Outer faces of the bund have been grassed	C	
180.	6.15.5	Have short term visual mitigation measures for the Yorkeys Creek stockpiling area been implemented prior to November 2017?	Height of the stockpile has been reduced by ~15m and trees planted on the northern side of the stockpile. Outer faces of the bund have been grassed	C	
181.	6.15.5	Continue to apply bituminous film to reduce the contrast between the pale rhyolite and darker background vegetation on the completed western facing slopes?	Areas of exposed Rhyolite had been previously covered. Reported that further application of bituminous film was planned.	C	
182.	6.15.5	Minimise the impacts of lighting by directing lighting away from critical receptors (south and east) and minimise the lume created by the lights.	Lighting was directed toward the ground where possible. No complaints re lighting have been received.	C	
183.	6.15.6	Has annual monitoring of the sequence of visual impacts using a series of annual photographs from vantage points surrounding the site been undertaken?	Included in the annual Review Appendix J. – Photographs from Hassans Wall.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
184.	6.15.7	Has the effectiveness of the visual impact management strategies been reviewed at least every year?	Review is included in the Annual Review.	C	
185.	6.15.8	Is monitoring data included in annual reporting?	Included in Appendix J.	C	
6.15 Traffic Management					
186.	6.16.3	Have all transport contractors completed the Hy-Tec Chain of Responsibility: Driver Vehicle Check System?	Included in site induction for drivers.	C	
187.	6.16.3	Monitored delays for vehicles turning right onto the Great Western Highway at two yearly intervals from 2022 onwards?		NT	
188.	6.16.3	Do route selection for delivery of quarry products follow routes designated in the EIS for entry and exit to the site, transportation through Blue Mountains and local deliveries of products?	Driver induction requires drivers to avoid using local roads unless it is impractical or unsafe to do so and as a preference to use State and regional roads for the selection of a transportation route once they have exited the Quarry.	C	
189.	6.16.3	Has a traffic management plan been implemented for trucks entering and leaving Austen Quarry?	Traffic management plan provided for the site.	C	
190.	6.16.5	Do laden trucks have appropriate signage, including a contact phone number, so they can be easily identified by road users?	All trucks sighted during the audit had signage to identify the vehicles. Audit process implemented to verify trucks have appropriate signage	C	
191.	6.16.5	Do laden trucks have their loads covered?	Verified for trucks sighted on day of audit. Verified for Truck RR636, 11/10/16. Minimum of 4 per week required to be completed. Records reviewed audits conducted in accordance with the schedule.	C	

Checklist item	Clause	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
192.	6.16.5	Have all laden trucks been cleaned of material that may fall on the road?	Requirement to clean truck prior to exit from site included in site induction (Driver Code of Conduct). Verified during audits on drivers. No material was sighted on roads which may have fallen from trucks.	C	
193.	6.16.5	Are trucks prohibited from queuing at the quarry access road before 5am?	Included in site induction (Driver Code of Conduct).	C	
194.	6.16.7	Has the effectiveness of the traffic management strategies been reviewed at least every year?		NT	
195.	6.16.8	Are accurate records of truck movements to and from the site (hourly, daily, weekly, monthly and annually) maintained?	CAS/SAP Quarries Weighbridge System used for monitoring truck movements to and from the site. Includes date and time, truck details, weight, time loaded, delivery address.	C	
196.	6.16.8	Are accurate records of truck movements to and from the site (hourly, daily, weekly, monthly and annually) published 6 monthly?	Truck movement records up to June 2017 were published on the company website.	C	
197.	6.16.9	Have any unforeseen impacts been identified? If so, have they been investigated and corrective actions identified and implemented?	No unforeseen impacts been identified.	NT	

Audit Checklist - Water Access Licence 25616

Checklist item	Plan Condition No	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
Water Access Licence 25616 – Plan Conditions					
1.	MW0112-00001	The maximum water allocation that may be carried over in the account for this access licence from one water year to the next water year is: A. a volume equal to 100 % of the share component of the licence, or B. 1 ML/unit share of the share component of the licence.	No water has been taken during the period July 2016 to June 2017.	NT	
2.	MW0017-00023	From 1 July 2011, water must not be taken from the Dharabuladh Management Zone of the Upper Nepean and Upstream Warragamba Water Source when flows are in the Very Low Flow Class, which means that the flow at Coxs River at the Island Hill gauge [No. 212045] is: A. equal to or less than 17 ML/day on a rising river, or B. equal to or less than 15 ML/day on a falling river. This restriction does not apply if water is to be taken from a runoff harvesting dam or an in-river dam pool.	Visual observation of water flow in the river was recorded at the commencement of pumping. The flow at the Island Hill gauge was not verified prior to pumping.	N	06
3.	MW0036-00002	The volume of water taken in any three (3) consecutive water years from 1 July 2012 must be recorded in the logbook at the end of those three water years. The maximum volume of water permitted to be taken in those years must also be recorded in the logbook.	Licence obtain in March 2015. Meter readings show 18.65ML taken between December 2014 and 16 October 2017. Pumping had not been undertaken for 3 years.	NT	
4.	MW0605-00001	Water must be taken in compliance with the conditions of the approval for the nominated work on this access licence through which water is to be taken.	No water has been taken during the period covered by the review.	NT	
5.	MW0605-00001	Water must only be taken if there is visible flow in the water source at the location where water is to be taken. This restriction does not apply if water is to be taken: A. from an off-river pool, an in-river pool, a runoff harvesting dam or an in-river dam pool, or B. from the following Weirs: Maldon, Douglas Park, Menangle, Camden, Sharpes, Cobbity, Mount Hunter Rivulet, Brownlow Hill, Theresa Park and Wallacia.	Visual assessment of river level recorded at commencement of pumping. Visible flow on all occasions recorded.	NT	

Checklist item	Plan Condition No	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
6.	MW0004-00002	From 1 July 2012, the total volume of water taken in any three (3) consecutive water years under this access licence must not exceed a volume which is equal to the lesser of either: A. the sum of: i. water in the account from the available water determinations in those 3 consecutive water years, plus ii. water in the account carried over from the water year prior to those 3 consecutive water years, plus iii. any net amount of water assigned to or from this account under a water allocation assignment in those 3 consecutive water years, plus iv. any water re-credited by the Minister to the account in those 3 consecutive water years, or B. the sum of: i. the share component of this licence at the beginning of the first year in those 3 consecutive water years, plus ii. the share component of this licence at the beginning of the second year in those 3 consecutive water years, plus iii. the share component of this licence at the beginning of the third year in those 3 consecutive water years, plus iv. any net amount of water assigned to or from this account under a water allocation assignment in those 3 consecutive water years, plus v. any water re-credited by the Minister to the account in those 3 consecutive water years.	Logbook maintained. Showed 18.65 ML taken between December 2014 and 16/10/17. Water allocation 20ML/ year.	C	
7.	MW2337-00001	The following information must be recorded in the logbook for each period of time that water is taken: A. date, volume of water, start and end time when water was taken as well as the pump capacity per unit of time, and B. the access licence number under which the water is taken, and C. the approval number under which the water is taken, and D. the volume of water taken for domestic consumption and/or stock watering.	Logbook maintained. Meter reading, river flow and time recorded at the commencement of pumping. Water access licence was included in the logbook. Start and end time not always recorded in the logbook	A	19
8.	MW2339-00001	A logbook must be kept, unless the work is metered and fitted with a data logger. The logbook must be produced for inspection when requested by the relevant licensor.	Logbook maintained.	C	

Checklist item	Plan Condition No	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
9.	MW2339-00001	Once the licence holder becomes aware of a breach of any condition on this access licence, the licence holder must notify the Minister as soon as practicable. The Minister must be notified by: A. email: water.enquiries@dpi.nsw.gov.au, or B. telephone: 1800 353 104. Any notification by telephone must also be confirmed in writing within seven (7) business days of the telephone call.	No breach has been identified.	NT	
10.	MW0655-00001	Any water supply work authorised by this approval must take water in compliance with the conditions of the access licence under which water is being taken.		Note	
11.	MW0491-00001	When a water supply work authorised by this approval is to be abandoned or replaced, the approval holder must contact the relevant licensor in writing to verify whether the work must be decommissioned. The work is to be decommissioned, unless the approval holder receives notice from the Minister not to do so. Within sixty (60) days of decommissioning, the approval holder must notify the relevant licensor in writing that the work has been decommissioned.	No water supply has been abandoned or replaced.	NT	
12.	MW0481-00001	A logbook must be kept and maintained at the authorised work site or on the property for each water supply work authorised by this approval, unless the work is metered and fitted with a data logger.	Logbook maintained.	C	
13.	MW2338-00001	The completed logbook must be retained for five (5) years from the last date recorded in the logbook.	Logbook maintained.	C	
14.	MW0482-00001	Where a water meter is installed on a water supply work authorised by this approval, the meter reading must be recorded in the logbook before taking water. This reading must be recorded every time water is to be taken.	Photograph of water meter reading taken at the commencement of pumping and included in log book.	C	
15.	MW0051-00001	Once the approval holder becomes aware of a breach of any condition on this approval, the approval holder must notify the Minister as soon as practicable. The Minister must be notified by: A. email: water.enquiries@dpi.nsw.gov.au, or B. telephone: 1800 353 104. Any notification by telephone must also be confirmed in writing within seven (7) business days of the telephone call.	No breach has been identified.	NT	

Checklist item	Plan Condition No	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
Water Access Approval 103330 –Conditions					
16.	DK0888-00001	Any water supply work authorised by this approval used for the purpose of conveying, diverting or storing water must be constructed or installed to allow free passage of floodwaters flowing into or from a river or lake.	Portable pump used for pumping from river. Storage dams installed allow free flow of flood water.	C	
17.	DK0878-00001	A. The construction, installation or use of the water supply work authorised by this approval must not cause or increase erosion to the channel or bank of the watercourse. B. If erosion is observed, the area must be stabilised with grass cover, stone pitching or any other material that will prevent any further occurrence of erosion.	Portable pump used. No erosion was observed during the site inspection.	C	

Audit Checklist – Water Access Licence 37423

Checklist item	Plan Condition No	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
Water Access Licence 37423 – Plan Conditions					
1.	MW0929-00001	From 1 July 2018, if the water supply work nominated on this access licence is located at or less than 40 m from the top of the high bank of a river then: A. water must not be taken in this groundwater source when flows are in the Very Low Flow Class for an unregulated river access licence in that river. B. This restriction will only apply when the system that confirms when water can be taken is available on DPI Water website. C. DPI Water will inform the licence holder in writing of the applicable restrictions and how to access the information on its website when this system becomes operative.	Audit conducted October 2017. Condition not triggered.	NT	
2.	MW0605-00001	Water must be taken in compliance with the conditions of the approval for the nominated work on this access licence through which water is to be taken.	No water has been taken during the period covered by the review.	NT	
3.	MW0919-00001	A maximum water allocation of 0.1 ML/unit share may be carried over in the account for this access licence from one water year to the next water year if a water meter is installed on each water supply work nominated on this licence and each meter is maintained in working order.	No water has been taken during the period covered by the review.	NT	
4.	MW0547-00001	The total volume of water taken under this licence in any water year must not exceed a volume equal to: A. the sum of water in the account from the available water determination for the current year, plus B. the water carried over in the account from the previous water year, plus C. the net amount of water assigned to or from the account under a water allocation assignment, plus D. any water re-credited by the Minister to the account.	No water has been taken during the period covered by the review.	NT	
5.	MW2338-00001	The completed logbook must be retained for five (5) years from the last date recorded in the logbook.	Logbook reported to be available. However, no water has been taken during the period covered by the review.	NT	
6.	MW2336-00001	The purpose or purposes for which water is taken, as well as details of the type of crop, area cropped, and dates of planting and harvesting, must be recorded in the logbook each time water is taken.	No water has been taken during the period covered by the review.	NT	

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Checklist item	Plan Condition No	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
7.	MW2337-00001	The following information must be recorded in the logbook for each period of time that water is taken: A. date, volume of water, start and end time when water was taken as well as the pump capacity per unit of time, and B. the access licence number under which the water is taken, and C. the approval number under which the water is taken, and D. the volume of water taken for domestic consumption and/or stock watering.	Logbook reported to be available. However, no water has been taken during the period covered by the review.	NT	
8.	MW2339-00001	A logbook must be kept, unless the work is metered and fitted with a data logger. The logbook must be produced for inspection when requested by the relevant licensor.	Logbook reported to be available. However, no water has been taken during the period covered by the review.	NT	
9.	MW0051-00002	Once the approval holder becomes aware of a breach of any condition on this approval, the approval holder must notify the Minister as soon as practicable. The Minister must be notified by: A. email: water.enquiries@dpi.nsw.gov.au , or B. telephone: 1800 353 104. Any notification by telephone must also be confirmed in writing within seven (7) business days of the telephone call.	No breach has been identified.	NT	
Water Access Approval 119180 –Conditions					
10.	MW0655-00001	Any water supply work authorised by this approval must take water in compliance with the conditions of the access licence under which water is being taken.	No water has been taken during the period covered by the review.	NT	
11.	MW0097-00001	If contaminated water is found above the production aquifer during the construction of the water supply work authorised by this approval, the licensed driller must: A. notify the relevant licensor in writing within 48 hours of becoming aware of the contaminated water, and B. adhere to the Minimum Construction Requirements for Water Bores in Australia (2012), as amended or replaced from time to time.	No contaminated water has been identified.	NT	
12.	MW0487-00001	The water supply work authorised by this approval must be constructed within three (3) years from the date this approval is granted.	Required to be constructed by 25 March 2018.	NT	

Checklist item	Plan Condition No	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
13.	MW0044-00001	A. When a water supply work authorised by this approval is to be abandoned or replaced, the approval holder must contact the relevant licensor in writing to verify whether the work must be decommissioned. B. The work is to be decommissioned, unless the approval holder receives notice from the Minister not to do so. C. When decommissioning the work the approval holder must: i. comply with the minimum requirements for decommissioning bores prescribed in the Minimum Construction Requirements for Water Bores in Australia (2012), as amended or replaced from time to time, and ii. notify the relevant licensor in writing within sixty (60) days of decommissioning that the work has been decommissioned.	No water supply has been abandoned or replaced.	NT	
14.	MW0484-00001	Before water is taken through the water supply work authorised by this approval, confirmation must be recorded in the logbook that cease to take conditions do not apply and water may be taken. The method of confirming that water may be taken, such as visual inspection, internet search, must also be recorded in the logbook. If water may be taken, the: A. date, and B. time of the confirmation, and C. flow rate or water level at the reference point in the water source must be recorded in the logbook.	No water has been taken during the period covered by the review.	NT	
1.	MW2338-00001	The completed logbook must be retained for five (5) years from the last date recorded in the logbook.	Logbook reported to be available. However, no water has been taken during the period covered by the review.	NT	
2.	MW2336-00001	The purpose or purposes for which water is taken, as well as details of the type of crop, area cropped, and dates of planting and harvesting, must be recorded in the logbook each time water is taken.	No water has been taken during the period covered by the review.	NT	

Checklist item	Plan Condition No	Condition	Finding and Recommendations	Compliance Rating	Assessment Issue #
3.	MW2337-00001	The following information must be recorded in the logbook for each period of time that water is taken: A. date, volume of water, start and end time when water was taken as well as the pump capacity per unit of time, and B. the access licence number under which the water is taken, and C. the approval number under which the water is taken, and D. the volume of water taken for domestic consumption and/or stock watering.	Logbook reported to be available. However, no water has been taken during the period covered by the review.	NT	
4.	MW0482-00001	Where a water meter is installed on a water supply work authorised by this approval, the meter reading must be recorded in the logbook before taking water. This reading must be recorded every time water is to be taken.	No water meter has been installed.	NT	
1.	MW2339-00001	A logbook must be kept, unless the work is metered and fitted with a data logger. The logbook must be produced for inspection when requested by the relevant licensor.	Logbook reported to be available. However, no water has been taken during the period covered by the review.	NT	
5.	MK0051-00001	Once the approval holder becomes aware of a breach of any condition on this approval, the approval holder must notify the Minister as soon as practicable. The Minister must be notified by: A. email: water.enquiries@dpi.nsw.gov.au, or B. telephone: 1800 353 104. Any notification by telephone must also be confirmed in writing within seven (7) business days of the telephone call.	No breach has been identified.	NT	
6.	MK0485-00001	Within sixty (60) days of completing construction of the water supply work authorised by this approval, the approval holder must provide a completed Form A for that work to the relevant licensor.	Water supply work had not been constructed at the time of audit.	NT	
7.	DS2431-00001	A. Within 6 months of granting this approval, a monitoring plan to measure the water table, groundwater and surface water quality must be submitted to, and approved by, the relevant licensor, Parramatta Office. B. Then, the water table, groundwater and surface water quality must be measured according to the approved plan. C. All monitoring records must be kept for 10 years and provided to the relevant licensor when requested.	A monitoring plan to measure the water table, groundwater and surface water quality had been developed and approved on 16 October 2017. The plan had not been submitted and approved within 6 months of granting of the approval (by 25/09/15).	A	20